100 Years

INTERNATIONAL

INTERNATIONAL PRODUCT CATALOGUE

May **2022** (rev. 1)

Autonomous residential | Centralized residential
Service Industry | Industrial Process

RIELLO
Energy For Life

A Carrier Company | **www.riello.com**

F.lli RIELLO OFFICINA MECCANICA LEGNAGO PORTO

1922

OFFICINE MECCANICHE FRATELLI RIELLO

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RIELLO BURNERS

RIELLO

2022

RIELLO Energy For Life

100 Years

RIELLO

RIELLO is a world leader in combustion technology and a point of reference in the production of systems and technologies for heating and air conditioning in the residential and light commercial sectors.

www.riello.com

100 YEARS OF ENERGY FOR LIFE

WE INNOVATE FOR A MORE SUSTAINABLE FUTURE

A century of energy for life, for people's comfort. Innovation and sustainability are what guide Riello's way of working and its ability to create ground-breaking systems. The company has become a world leader in its field by predicting future needs and speeding up the shift towards sustainable energy transition.

Riello has pledged to develop increasingly healthy, safe and efficient technologies, transforming various energy sources. Its aim is to continuously improve the quality of our lives, making our planet a more liveable place not only today but also for future generations.

This philosophy is reflected in the logo for its 100-year anniversary:
an endless embrace, representing ongoing research along with the goal of a production model designed to improve the performance of its products whilst at the same time reducing emissions and waste.

100 years is a significant milestone, but also represents a new start for the next phase as a reference player for industrial and cultural change.

100 Years

ENVIRONMENT AND WELL-BEING

RIELLO 4 GREEN

RIELLO FULLY EMBRACES THE CONCEPT OF WELL-BEING, TRANSLATING IT INTO A BUSINESS MODEL BASED ON SUSTAINABILITY AND INNOVATION AND ON PRODUCTS THAT STIMULATE THE ENERGY TRANSITION.

TECHNOLOGY THAT RESPECTS THE ENVIRONMENT

ENERGY SAVINGS

ECO-SUSTAINABILITY

WELL-BEING & ENVIRONMENT

To handle the European and worldwide decarbonisation goals, Riello has strengthened its Riello 4 Green program that defines its environmental sustainability focus in two areas:

01

linked to production, the characteristics of the products and how they are designed

Riello is aware of the role that a brand can and must have when it comes to consumption habits; that's why it wants to be a messenger for the efficient use of resources in the production context. All Riello's production sites in Italy, in fact, are powered by renewable energy and the company has adopted practices and technologies to boost energy efficiency. Painstaking product design focuses on the integration of various energy sources and the reduction of the environmental impact, turning towards alternative sources such as hydrogen and biofuels.

02

linked to the company itself

This goes hand in hand with the development of high-efficiency technologies and smart control systems (based on the potential of the IoT) that enable consumption to be reduced thanks to intuitive remote control tailored to the customer's needs. The result? Benefits for the consumer, in economic terms, but above all benefits for the eco-system.

Because active responsibility has to be shared responsibility.

PROFESSIONAL GROWTH AND DEVELOPMENT

TRAINING

**TRAINING IS ONE OF RIELLO'S STRENGTHS:
IT HAS ALWAYS BEEN AN INTEGRAL PART OF ITS BUSINESS AND A DISTINCTIVE COMPONENT RECOGNISED BY THE MARKET FOR ITS CONTINUITY AND CONSISTENCY.**

Riello has an ongoing training process to transfer its know-how both to consultants and to market operators. It involves technical update meetings and specific training courses intended to foster the professional growth of the people Riello works with. **Professionalism, skills and reliability are made available to the supply chain every single day, to promote a comprehensive knowledge of next generation products and system solutions.** For Riello, training also means being aware of legislative developments and being able to interpret their evolution in advance. The company's pre-sales and training structure is ready to provide constant support and the best refresher courses to its customers, so they can address a rapidly changing market. The Angiari training centre is a tangible example of the importance of training for Riello. Consisting of classrooms and fully fitted-out labs, it provides theory and hands-on training using the very latest learning systems.

AT A DISTANCE, NOT DISTANT

WEBINARS

A FULL CALENDAR OF VIRTUAL MEETINGS, TO KEEP UP-TO-DATE ABOUT LEGISLATIVE DEVELOPMENTS AND TO FIND OUT ABOUT SOME OF RIELLO'S MOST INNOVATIVE SOLUTIONS.
FOR BOTH INSTALLERS AND DESIGNERS.

To ensure the utmost attention to the constant reworking of daily life and to aid Italian professionals, Riello has set up a digital training program via the web.
Each of the courses of this full schedule of training events can, in fact, be followed online.

www.riello.com

THANKS TO HI, COMFORT, RIELLO'S NEW PLATFORM OF IOT SOLUTIONS, MANAGING COMFORT HAS NEVER BEEN SO EASY

The end user can manage the temperature in the home using the HI, COMFORT T100 thermostat and connecting the new HI, COMFORT app to it via a Wi-Fi box. The new app can be downloaded free of charge for Android and iOS systems, and used to monitor the status, set the DHW temperature and define the boiler settings simply and safely, from a distance. In addition, HI, COMFORT T100 is quick and easy to install and, even if it's replacing an old thermostat, no work is needed on the electrical system of the home. With battery power, HI, COMFORT T100 can also take advantage of wireless installation if the system is fitted with a radiofrequency receiver.

HI, COMFORT T100

- A command unit complete with backlit display for managing domestic comfort even from a distance, via a smartphone or tablet
- A modern, user-friendly app with innovative functions
- Advanced remote control of Riello boilers, and standard ON/OFF remote control of all other boilers
- Versatile communication: ON/OFF and OTBus, both wired and wireless

USER-FRIENDLY INTERFACE

QUICK, EASY INSTALLATION

WIDE COMPATIBILITY

HIGH SAFETY STANDARDS

hi-comfort.com

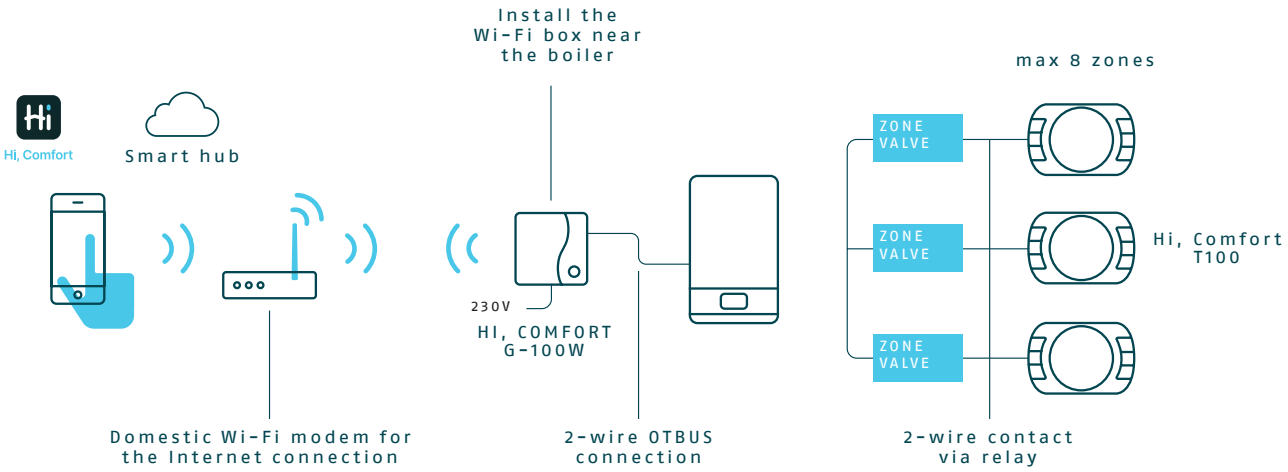
The HI, COMFORT platform, bringing together the latest Riello boilers with smart thermostats and an app, is the beginning of a new generation of comfort.

HI, COMFORT K100

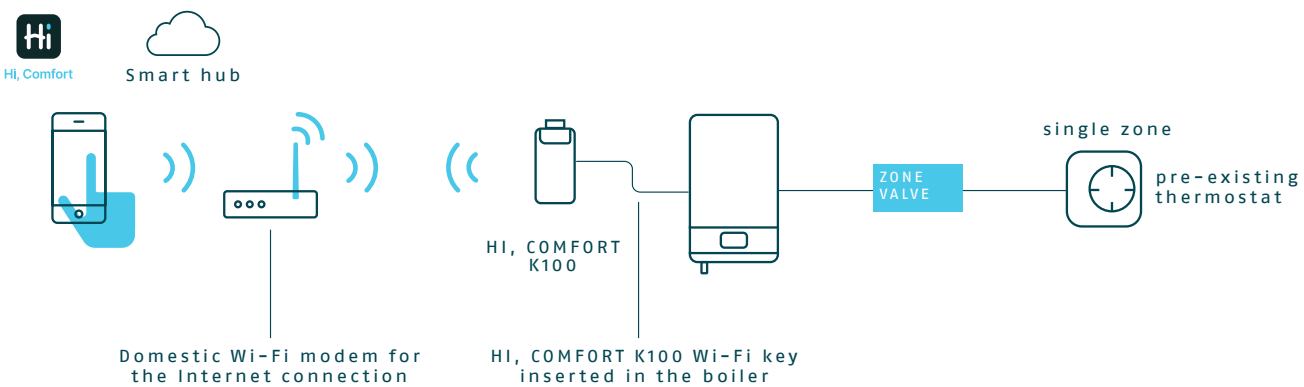
Apart from HI, COMFORT T100, the new HI, COMFORT K100* smart key will soon be available too. It also connects to the HI, COMFORT app which, linked directly to the boiler, makes it "smart" without having to replace the thermostat.

*(Availability during 2022)

ADVANCED SMART CONTROL



STANDARD SMART CONTROL



PRO WALL-HUNG HYBRID SYSTEM

A HIGH-EFFICIENCY HYBRID SYSTEM THAT GUARANTEES COMFORT AND A LOW ENVIRONMENTAL IMPACT

RIELLO'S NEW HYBRID SYSTEM, UP TO 112 KW, COMBINES THE VERSATILITY OF THE CONDEXA PRO WALL-HUNG BOILER WITH THE EFFICIENCY OF THE FAMILY ES SPLIT HYDRONIC HEAT PUMP.

The multi-energy hybrid system for heating and DHW production, conceived for the energy requalification of medium- and high-output heating plants and developed and tested by Riello, combines the high-efficiency combustion technology of the boiler with that of the hydronic heat pump, creating a system that offers top performance in terms of efficiency and comfort as well as a reduced environmental impact.

The system is made up of 3 main components:

- **CONDEXA PRO** – wall-hung condensing boiler guaranteeing excellent performance (single installation)
- **FAMILY ES** – split air-water heat pump with an internal wall-hung unit; a compact, efficient and quiet solution
- **REC 10I** – system control panel

SYSTEM CHARACTERISTICS AND ADVANTAGES:

- «Factory made» solution
- A system that can work with high-temperature terminals thanks to the in-series operation of the generators
- System manager with advanced control logics aimed at ensuring the maximum system efficiency, favouring the most efficient heat source
- The ideal system in a variety of application contexts, both residential and professional
- Excellent system configurability
- Hydraulic layouts validated in the lab to ensure the optimum efficiency of the hybrid system
- Possibility to take advantage of the incentive mechanisms set up (50%/65% tax relief, "Conto Termico" and "Superbonus 110%")

archiproducts DESIGN AWARDS WINNER 2021

SUSTAINABILITY mention

In 2021, the multi-energy hybrid system won the Archiproducts Design Awards 2021, admired for its concept and design and obtaining the "Special mention 2021 for sustainability".

INTEGRATED SOLUTIONS FOR MODERN DAILY LIFE

RIELLO
MAKES YOU FEEL GOOD

RIELLO'S NEW RANGE OF WALL-HUNG CONDENSING BOILERS EMBODIES THE COMPANY'S CONSTRUCTION PHILOSOPHY: TOP PERFORMANCE, EASY USE AND MAINTENANCE, DESIGNED TO ADAPT TO DIFFERENT INSTALLATION REQUIREMENTS, AND WITH AN EYE TO TOMORROW.

The flagship model, FAMILY, is the perfect blend of comfort and sustainability. The top of the Riello wall-hung range is the result of a new way of thinking about energy: efficient, hybrid, eco-sustainable. FAMILY provides optimum comfort in both heating and DHW mode, along with high efficiency and reduced consumption. It's designed as "hybrid ready" - in other words, able to directly manage the components of a multi-energy system effectively and efficiently, without the need for any extra accessories.

The FAMILY range is designed to work with mixtures of natural gas and hydrogen (up to 20%) - the first step towards the environmental sustainability goals and the decarbonisation process launched by the European Union. The boilers of today, for the generations of tomorrow.

START OFF
ON THE RIGHT FOOT.

DIGITAL TOUCHPAD INTERFACE

HOT WATER TEMPERATURE STABILITY

LOW NOISE OPERATION

HIGH EFFICIENCY

COMPACT DESIGN

EASY TO USE

FOR A SUSTAINABLE FUTURE

HYDROGEN READY 20%

START is a new generation boiler, designed around your comfort needs, while ensuring low noise operation and respecting the environment. The excellent DHW stability, the innovative user-friendly interface and the flexibility of installation in any home setting make it the ideal choice for a valuable replacement over time.

BEYOND THEIR APPLICATION

HIGH EFFICIENCY
REDUCED ENVIRONMENTAL IMPACT

Riello has set up an R&D and operating program to provide products that ensure high energy efficiency and, at the same time, limit the impact on the environment.
TAU N is the range of condensing gas boilers with a high water content, designed to meet the modern needs of centralised heating in large residential, commercial or industrial areas; models up to 3.0 MW available. A range that represents the pioneering nature of Riello's research, already geared up for the evolution of tomorrow: in fact the TAU N models are tested as “Hydrogen Combustion Ready”.
TAU N is the base element of a wider range of high-performance integrated systems tested in the Riello laboratories.

SYMBOLS

TO MAKE ITS PRICE LIST CATALOGUE A TOOL THAT'S SIMPLE TO READ AND EASY TO UNDERSTAND, RIELLO HAS STARTED USING THE FOLLOWING SELF-EXPLANATORY SYMBOLS.

ERP

The product falls within the sphere of the ErP "Energy Related Product" Directive, and complies with the relative requisites.

A

The energy class of the specific product model.

LOW NOx

Low N0x emissions on standard efficiency combustion products.

The quality and performance of this product are Solar Keymark certified.

RIELLO

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A-Z INDEX

RIELLO

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HYBRID SYSTEMS WITH MONOBLOC HEAT PUMP

	INDOOR	OUTDOOR	BUILT-IN
COMBINED BOILERS	 HYBRID WALL SYSTEMS FAMILY 25-30-35 KIS RESIDENCE 25-30-35 KIS NEW page 24	 HYBRID WALL SYSTEMS RESIDENCE HYBRID 25-32 KIS NEW page 24	 HYBRID WALL SYSTEMS FAMILY 25-30-35 KIS RESIDENCE 25-30-35 KIS RESIDENCE IN HYBRID 25-32 KIS NEW page 24
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Hybrid system-Wall-hung solutions

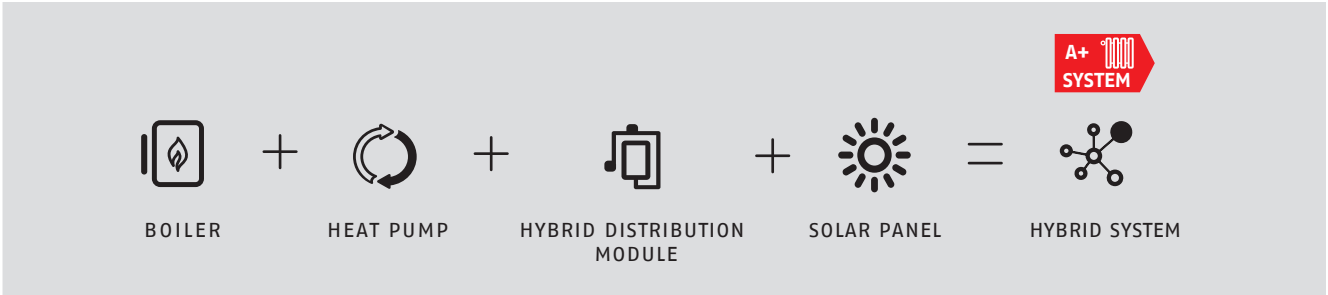
Hybrid wall systems

ERP

- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Large display for setting and monitoring the entire system

A wall-hung hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating only or combined boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with high-efficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- The heat pump: monobloc air-water outdoor type of the NXHM 004-016 series, used for heating, cooling and pre-heating of domestic hot water for domestic use if a DHW heater is present. NXHM 004-016, specific for hybrid systems, is able to communicate with the system intelligence via bus, and is available with 4, 6, 8, 10, 12, 14 and 16 kW power ratings.
- The hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEI≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.



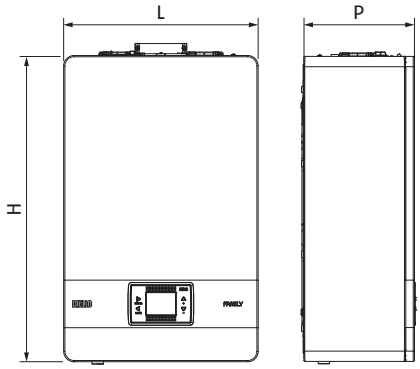
WALL-HUNG BOILERS

TECHNICAL DATA

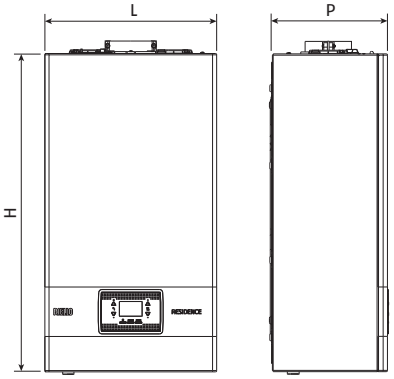
Description	Heat output Heating/Domestic Water min-max kW	Working efficiency Pn (50°/30°C) %	Working efficiency 30% Pn (rit. 30 °C) %	Domestic water production ΔT 25° l/min	Energy efficiency class		Notes	Code
COMBINED VERSION OF HEATING AND INSTANT SANITARY WATER								
FAMILY 25 KIS	3.6-20.0/3.6-25.0	106.6	109.1	15.1	A	A	(1)(5)	**20187642**
FAMILY 30 KIS	4.9-25.0/4.9-30.0	107.5	109.5	18.1	A	A	(1)(5)	**20187644**
FAMILY 35 KIS	4.9-32.0/4.9-34.6	107.4	109.5	20.1	A	A	(1)(5)	**20187645**
RESIDENCE 25 KIS	3.6-20.0/3.6-25.0	106.2	108.4	15.1	A	A	(1)(2)	**20139525**
RESIDENCE 30 KIS	4.9-25.0/4.9-30.0	106.0	108.1	18.1	A	A	(1)(2)	**20148496**
RESIDENCE 35 KIS	4.9-30.0/4.9-34.6	106.9	108.2	20.8	A	A	(1)(2)	**20139527**
RESIDENCE HYBRID 25 KIS	3.1-20.0/3.1-25.0	105.0	109.6	14.3	A	A	(3)	**20130398**
RESIDENCE HYBRID 32 KIS	3.7-30.0/3.7-32.0	104.7	109.5	18.3	A	A	(3)	**20130399**
RESIDENCE IN HYBRID 25 KIS	3.1-20.0/3.1-25.0	105.0	109.6	14.3	A	A	(3)	**20118748**
RESIDENCE IN HYBRID 32 KIS	3.7-30.0/3.7-32.0	104.7	109.5	18.3	A	A	(3)	**20118749**
HEATING ONLY VERSION								
FAMILY 25 IS	3.6-20.0/3.6-25.0	106.6	109.1	/	A	-	(1)(5)	**20187643**
FAMILY 35 IS	4.9-32.0/4.9-34.6	107.5	109.5	/	A	-	(1)(5)	**20187646**
RESIDENCE 20 IS	3.6-20.0/3.6-20.0	106.2	108.4	-	A	-	(1)(2)	**20139526**
RESIDENCE 35 IS	4.9-30.0/4.9-34.6	106.9	108.2	-	A	-	(1)(2)	**20139528**
RESIDENCE IN HYBRID 25 IS	3.1-20.0/3.1-25.0	105.0	110.0	-	A		(3)	**20135128**
BUILT-IN INSTALLATION UNIT								
BUILT-IN UNIT M							(4)	**20082310**

(1) The external probe is not included in the boiler supply, but is available as an accessory with code 1220559.
(2) To create a wall-mounted hybrid system, it is necessary to replace the boiler display with the code 20193921.
(3) The boiler code includes the hybrid system control panel and the external probe.
(4) To be used for Family 25 KIS, Residence 25 KIS and Residence In Hybrid.
(5) Compatibility declared with the FAMILY range starting from November 2021.

OVERALL DIMENSIONS

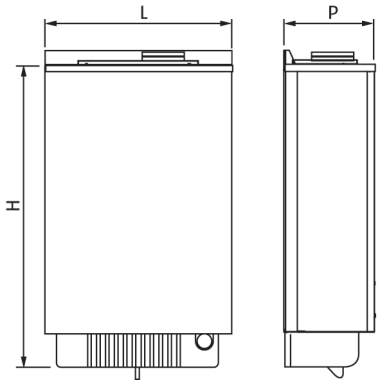


Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	40
FAMILY 35 KIS	740	470	350	40
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

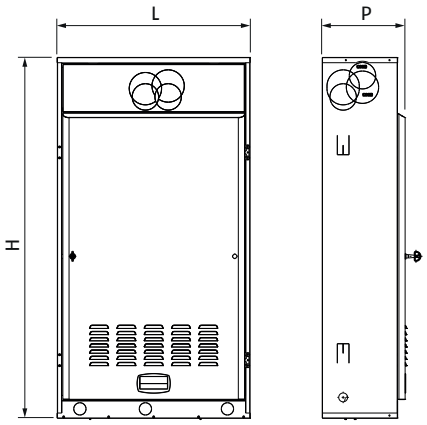


Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Height including SRD device: 822 mm



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HYBRID 25 KIS	872	553	275	44
RESIDENCE HYBRID 32 KIS	872	553	275	46



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE IN HYBRID 25 KIS	785	553	268	42
RESIDENCE IN HYBRID 32 KIS	785	553	268	43
RESIDENCE IN HYBRID 25 IS	785	553	268	40
BUILT-IN UNIT M	1223	654	281	21

MATCHING HEAT PUMPS

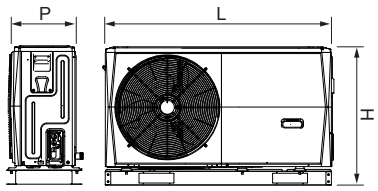
TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
AIR-WATER MONOBLOC SINGLE PHASE											
NXHM 004	4.20	5.10	4.30	3.80	4.50	5.50	4.70	3.45	230/1/50	A++	**20191936**
NXHM 006	6.35	4.95	6.30	3.70	6.50	4.80	7.00	3.00	230/1/50	A++	**20191940**
NXHM 008	8.40	5.15	8.10	3.85	8.30	5.05	7.45	3.35	230/1/50	A++	**20191942**
NXHM 010	10.00	4.95	10.00	3.75	9.90	4.55	8.20	3.25	230/1/50	A++	**20191943**
NXHM 012	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	230/1/50	A++	**20191944**
NXHM 014	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	230/1/50	A++	**20191945**
AIR-WATER MONOBLOC THREE-PHASE											
NXHM 012T	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	400/3/50	A++	**20191947**
NXHM 014T	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	400/3/50	A++	**20191948**

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

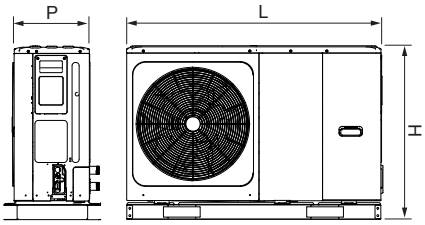
OVERALL DIMENSIONS

NXHM 004-006



Description	H mm	L mm	P mm	Net weight kg
NXHM 004	792	1295	429	98
NXHM 006	792	1295	429	98
NXHM 008	945	1385	526	121
NXHM 010	945	1385	526	121
NXHM 012/012T	945	1385	526	144
NXHM 014/014T	945	1385	526	144

NXHM 008-014



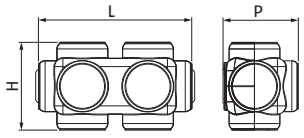
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

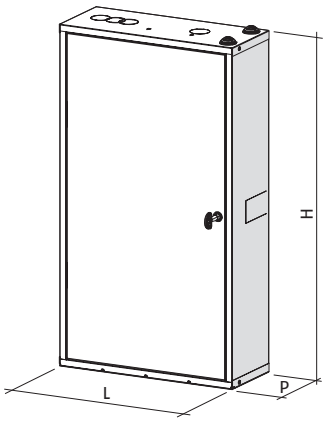
Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITHOUT SEPARATOR					
HBOX – 1D HYBRID DISTRIBUTION MODULE	1 direct zone	–	–	(1)	**20165227**
DISTRIBUTION MODULES WITH SEPARATOR					
BAG³ HYBRID 1D	1 direct zone	230/1/50	57	(2)(5)	**20130805**
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	**20130807**
IN-WALL INSTALLATION BOX	-	-	-	(4)	**20130808**

(1) Can only be combined with NXH 005-007 heat pumps code 20161608 and 20161610.
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
(5) Supplied without in-wall installation box.

OVERALL DIMENSIONS

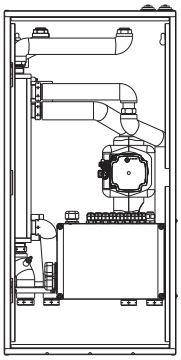


Description	H mm	L mm	P mm	Net weight kg
HBOX – 1D HYBRID DISTRIBUTION MODULE	107	187	92	0,9

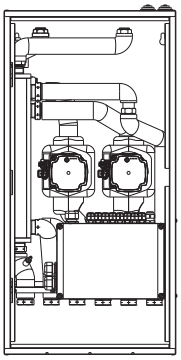


Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	17
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

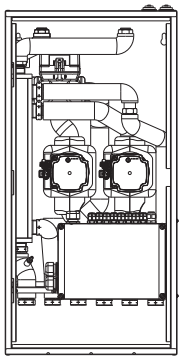
BAG³ HYBRID 1D



BAG³ HYBRID 2D



BAG³ HYBRID 1D+1M



ACCESSORIES

Description	Notes	Code
HB0X adjustable bypass valve	(1)	**20182807**

(1) Mandatory accessory when using HB0X - 1D hybrid distribution module code 20165227 with variable flow systems.

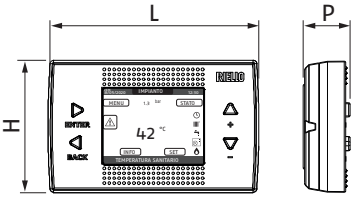
REC10MH MANAGEMENT CONTROL

TECHNICAL DATA

Description	Electrical power supply V/Ph/Hz	Notes	Code
REC10MH MANAGEMENT CONTROL	230/1/50	(1)	**20193921**

(1) Already included in Residence Hybrid and Residence In Hybrid.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
REC10MH MANAGEMENT CONTROL	90	146	32	0,15

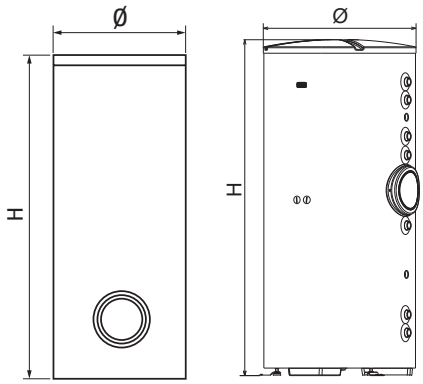
MATCHING SANITARY TANKS

TECHNICAL DATA

Description	Usable volume l	Lower coil exchange surface (m²)	Upper coil exchange power (kW)*	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy class	Notes	Code
RBC 200 1S	207	1.38	-	99	10	58	B	(1)	**20124168**
RBC 300 1S	305	1.7	-	99	10	68	B	(1)	**20124169**
RBS 200 2S	208	0,7	16.1	99	10	62	B	(2)	**20116675**
RBS 300 2S	301	1,0	23	99	10	69	B	(2)	**20116335**
7200 300 HP	263	4.0	-	99	10	85	C	(1)	**4383500**
7200 500 HP	470	6.0	-	99	10	112	C	(1)	**4383501**

* With Δt= 20°C and primary temperature of 80°C.
(1) Single-coil heater for heat pump.
(2) Double-coil solar heater.

OVERALL DIMENSIONS



Description	H mm	Ø mm	S (*) mm	Net weight kg
RBC 200 1S	1338	604	52	78
RBC 300 1S	1838	604	52	103
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166

Dimensions and weight with insulation.
(*) Insulation thickness.

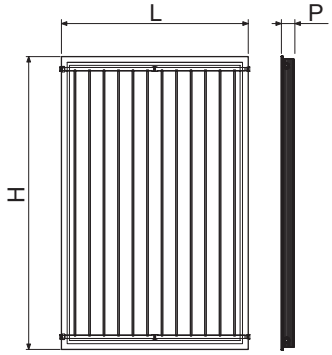
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code
	Gross m²	Net m²	ηo	a1 W/m²K	a2 W/m²K²			
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	200	(1)	**20127137**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 223.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44

WALL-MOUNTED BOILER ACCESSORIES

Description	Notes	Code
FAMILY BOILER		
Vertical connection manifold kit Ø60/100 mm	(1)	**20129174**
90° boiler start bend kit Ø60/100 mm	(2)	**20129172**
Kit with system and gas taps for recessed installation (only model 25 KIS)		**20137668**
Condensate booster pump kit		**20097192**
Immersion probe for remote storage cylinder (for heating only version)		**1220599**
Compact magnetic filter	(3)	**20191517**
Compact polyphosphate doser kit	(3)	**20191518**
Kit for managing second pump or zone valves		**20062614**
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Fixed twin system Ø80 mm kit		**20129765**
Fixed twin system Ø80 mm kit		**20129175**
Telescopic wall collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Splitter device kit B23 Ø80 mm for in-wall installation box		**20129768**
Adapter kit B23 Ø80 mm		**20129769**
External probe		**1220559**
Anti-freeze resistors kit for combi versions		**20193278**
Anti-freeze resistors kit for heating only versions		**20193279**
RESIDENCE BOILER		
Vertical connection manifold kit Ø60/100 mm	(1)	**20129174**
90° boiler start bend kit Ø60/100 mm	(2)	**20129172**
Kit with system and gas taps for recessed installation (only model 25 KIS)		**20137668**
Connection kit with heating system, domestic water and gas cocks (for KIS models)		**20133516**
Connection kit with heating system and gas cocks (for IS models)		**20133517**
Connection kit with domestic water and gas cocks (for KIS models)		**20132005**
Connection kit with gas cock (for IS models)		**20133386**
High head circulator		**20105883**
Condensate booster pump kit		**20097192**
Immersion probe for remote storage cylinder (for heating only version)		**1220599**
Compact magnetic filter	(3)	**20191517**
Compact polyphosphate doser kit	(3)	**20191518**
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Fixed twin system Ø80 mm kit		**20129765**
Fixed twin system Ø80 mm kit		**20129175**
Telescopic wall collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Splitter device kit B23 Ø80 mm for in-wall installation box		**20129768**
Adapter kit B23 Ø80 mm		**20129769**
External probe		**1220559**
Anti-freeze resistors kit for combi versions		**20145304**
Anti-freeze resistors kit for heating only versions		**20145305**
RESIDENCE HYBRID BOILER		
Open-air installation kit		**20011638**
Antifreeze heater kit		**20164833**
Condensate booster pump kit		**20097192**
Wall-mounted hydraulic fittings kit		**20130639**
Heating system tap kit		**4047252**
Clapper kit		**20100893**
LPG conversion kit (only for per 25 kW)		**20102669**
LPG conversion kit (only for 32 kW)		**20102674**
Propane air transformation kit (only for 25 kW)		**20102673**
RESIDENCE IN HYBRID BOILER		
Door kit for built-in	(4)	**4047250**
Heating system tap kit		**4047252**

Description	Notes	Code
Wall fittings kit		4047255
External probe		1220559
Antifreeze heater kit KIS version		20164827
Antifreeze heater kit IS version		20164828
Condensate booster pump kit		20097192
Immersion probe for remote storage cylinder (for heating only version)		1220599
LPG conversion kit Residence Externa Condens 25 KIS-20 IS		20102669
LPG conversion kit Residence Externa Condens 32 KIS		20102674
Propane air transformation kit Residence Externa Condens 25 KIS		20102673
Clapper kit		20162838

(1) Code required in case of vertical discharge with 60/100 mm flue. Accessory already included in kit 20129177.
(2) Code required in case of horizontal discharge with flue Ø60/100 mm. Accessory already included in kits 20129175 and 20129176.
(3) Available from November 2021.
(4) For retrofitting on old caissons without doors.

HEAT PUMP ACCESSORIES

Description	Notes	Code
NXHM HEAT PUMPS		
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
50 litre inertial buffer tank	(1)	20171999
1" Y water filter	(2)	20175281

(1) The inertial tank cannot be installed horizontally below the heat pump.
(2) The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.

ACCESSORIES HYBRID DISTRIBUTION MODULES

Description	Notes	Code
HYBRID DISTRIBUTION MODULES		
Cock kit on system and heat pump side		20131752
Photovoltaic system input card	(1)	20132409
Diverting valve kit for BAG^3 HYBRID		20131755
Diverting valve kit for HBOX		20168920
Solar interface kit		20131756

(1) To be used only if the diverting valve (code 20131755) is not present in BAG3 HYBRID configuration.

DOMESTIC TANKS MODULES

Description	Notes	Code
DOMESTIC TANKS MODULES		
Solar heat exchanger 0.8 m^2 (7200 300 HP)		4383504
Solar heat exchanger 1,2 m^2 (7200 500-800 HP)		4383505
Solar mixing diverting valve kit	(1)	20025113

(1) Mandatory in case of domestic water heater installation and KIS model boiler.

SOLAR COLLECTOR MODULES ACCESSORIES

Description	Notes	Code
SOLAR COLLECTORS		
RSS R solar hydraulic unit	(1)	20116168

(1) The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.

SOLAR THERMAL ACCESSORIES

Description	Notes	Code
SOLAR THERMAL		
Solar collector probe kit	(1)	**20008787**
Manual solar degasser kit	(2)	**20026577**
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		**20132142**
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		**20132143**
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		**4383254**
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		**4383255**
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		**4383085**
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		**4383059**
18-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, ¾" connection)		**4383052**
24-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, ¾" connection)		**4383053**

(1) The solar interface kit code 20131756 already contains the solar probe.
(2) Use one for each set of manifolds fitted in the highest position.

Hi, COMFORT CONTROLS

Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

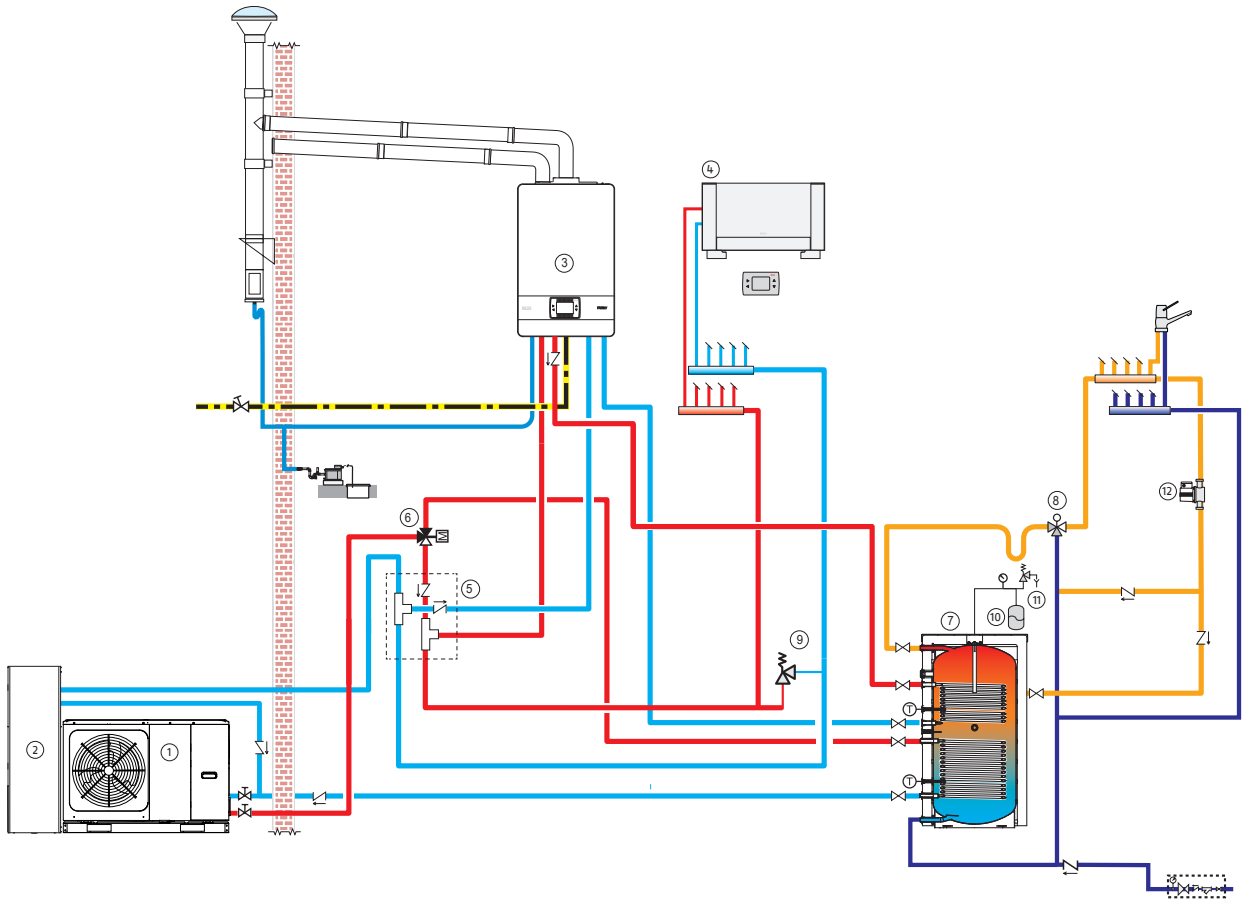
SYSTEM CONFIGURABILITY

Description	Code	Built-in unit	Management control	Heat pumps possible combinations								Hydraulic distribution			
		Built-in unit M	REC10MH management control	NXHM 004	NXHM 006	NXHM 008	NXHM 010	NXHM 012	NXHM 014 (3)	NXHM 012T	NXHM 014T	HBOX - 1D hybrid distribution module (1)	BAG³ HYBRID 1D (2)	BAG³ HYBRID 2D (2)	BAG³ HYBRID 1D+1M (2)
		20082310	20193921	20191936	20191940	20191942	20191943	20191944	20191945	20191947	20191948	20165227	20130805	20130806	20130807
COMBINED VERSION OF HEATING AND INSTANT SANITARY WATER															
FAMILY 25 KIS	**20187642**	●	(4)	●	●	●						●	●	●	●
FAMILY 30 KIS	**20187644**		(4)	●	●	●	●	●		●		●	●	●	●
FAMILY 35 KIS	**20187645**		(4)	●	●	●	●	●	●	●	●	●	●	●	●
RESIDENCE 25 KIS	**20139525**	●	●	●	●	●						●	●	●	●
RESIDENCE 30 KIS	**20148496**		●	●	●	●	●	●		●		●	●	●	●
RESIDENCE 35 KIS	**20139527**		●	●	●	●	●	●	●	●	●	●	●	●	●
RESIDENCE HYBRID 25 KIS	**20130398**		(4)	●	●	●						●	●	●	●
RESIDENCE HYBRID 32 KIS	**20130399**		(4)	●	●	●	●	●	●	●	●	●	●	●	●
RESIDENCE IN HYBRID 25 KIS	**20118748**	●	(4)	●	●	●						●	●	●	●
RESIDENCE IN HYBRID 32 KIS	**20118749**	●	(4)	●	●	●						●	●	●	●
HEATING ONLY VERSION															
FAMILY 25 IS	**20187643**		(4)	●	●	●						●	●	●	●
FAMILY 35 IS	**20187646**		(4)	●	●	●	●	●	●	●	●	●	●	●	●
RESIDENCE 20 IS	**20139526**		●	●	●	●						●	●	●	●
RESIDENCE 35 IS	**20139528**		●	●	●	●	●	●	●	●	●	●	●	●	●
RESIDENCE IN HYBRID 25 IS	**20135128**	●	(4)	●	●	●						●	●	●	●

(1) Can only be combined with NXHM 004-006-008 heat pumps.
(2) Combine the flush-mounted box code 20130808 only with BAG³ HYBRID code 20130805, 20130806 and 20130807.
(3) The configuration of the hybrid mural system with NXHM 015 is not suitable for the request for a contribution provided for by the thermal account or for the request for a tax incentive provided for by Ecobonus.
(4) Check when ordering if the boiler is already equipped with a REC10MH control compatible with NXHM.

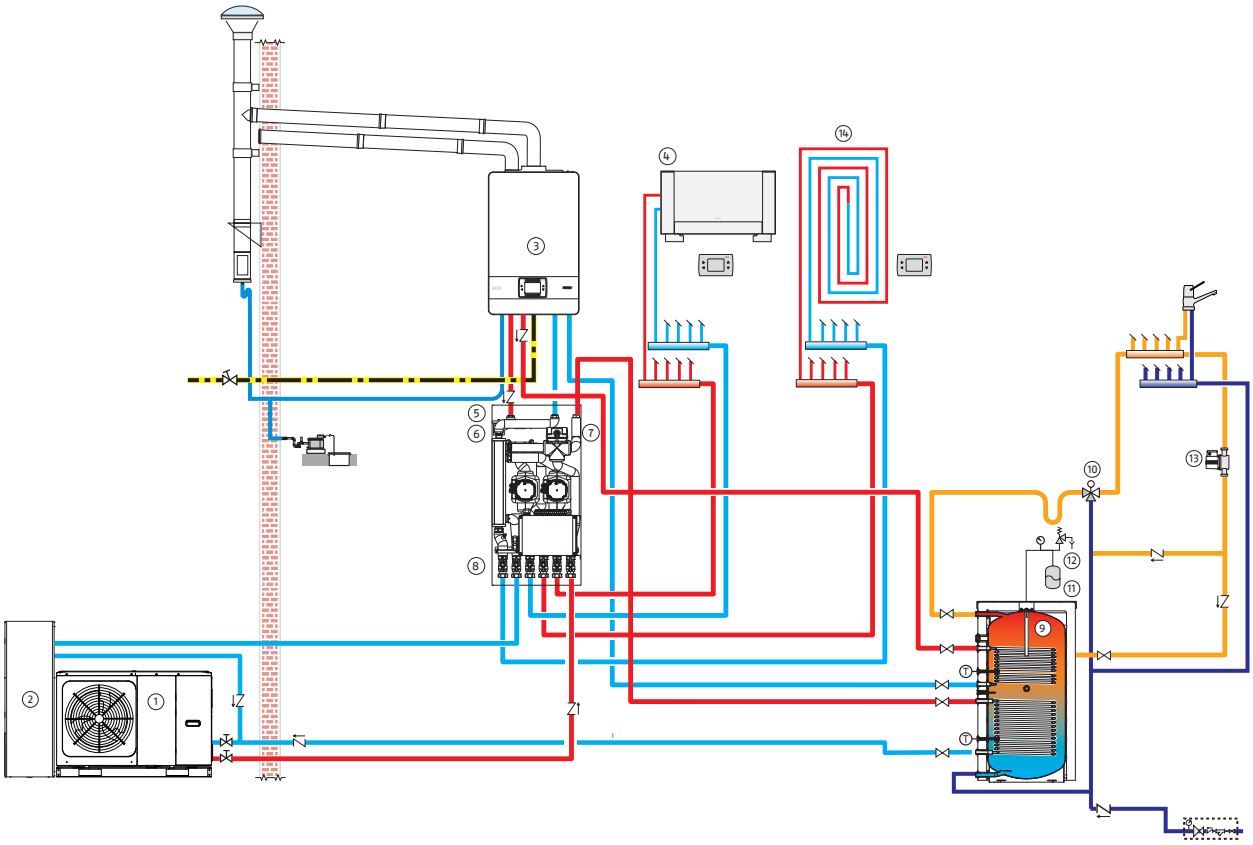
EXAMPLES OF PLANT WITH HYBRID WALL SYSTEM

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND BOILER



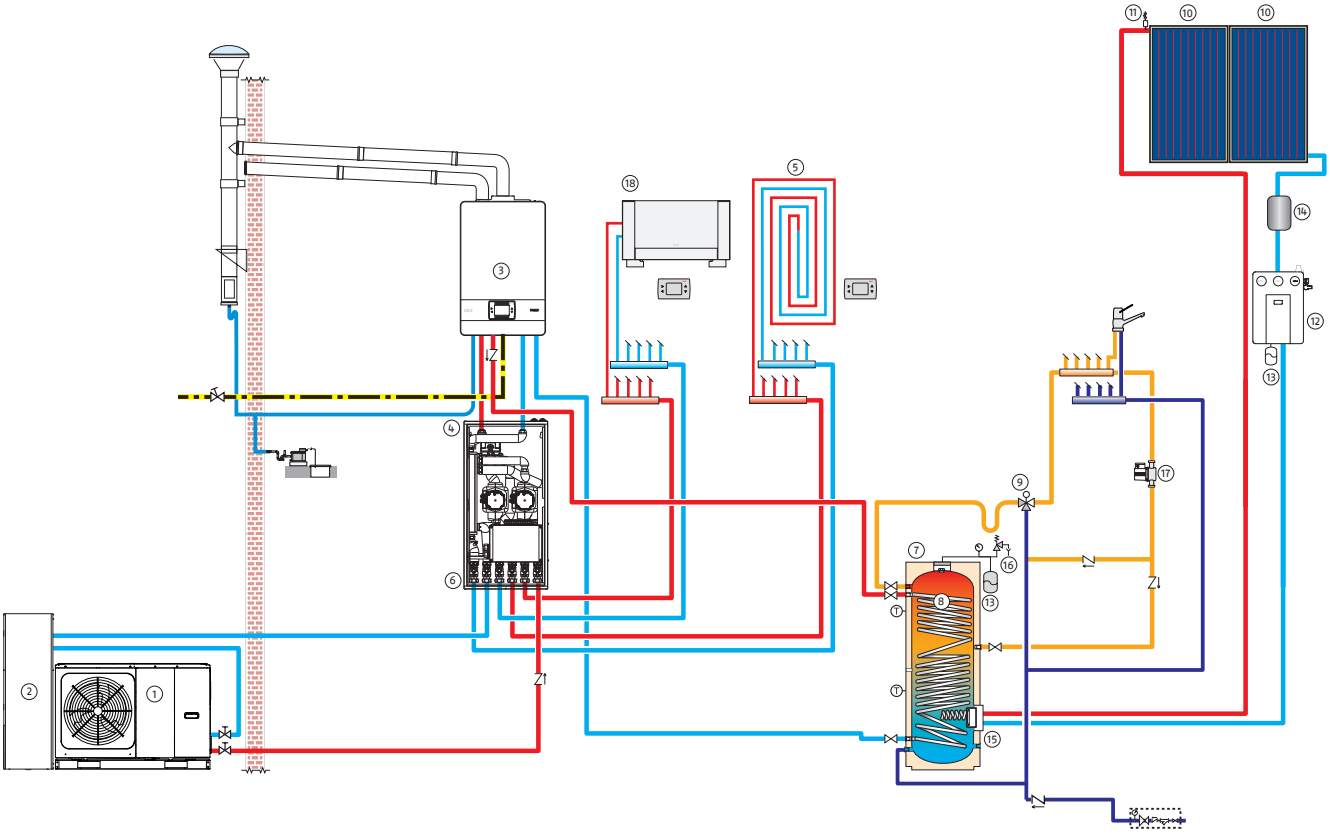
1 Heat pump
2 Hot/cold inertial storage kit
3 Wall-hung boiler
4 Fan coil
5 HBOX - 1D Hybrid distribution module
6 DHW diverter valve kit for heat pump
7 Heater
8 ¾ "thermostatic mixer
9 Adjustable by-pass valve
10 Expansion vessel
11 Safety valve
12 DHW recirculation pump

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND MULTI-ZONE BOILER



1 Heat pump
2 Hot/cold inertial storage kit
3 Wall-hung boiler
4 Fan coil
5 BAG³ HYBRID
6 In-wall installation box
7 BAG³ HYBRID Diverting valve kit
8 Tap kit for BAG3 HYBRID system and heat pump side
9 Heater
10 ¾ "thermostatic mixer
11 Expansion vessel
12 Safety valve
13 DHW recirculation pump
14 Underfloor heating system

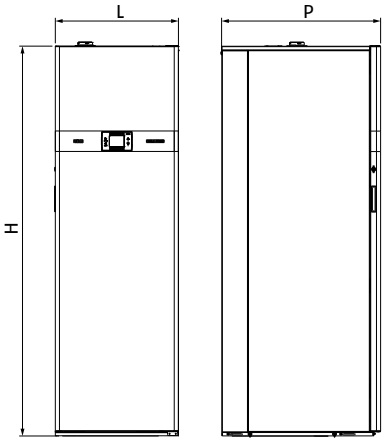
BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SOLAR THERMAL, HEAT PUMP AND BOILER



1 Heat pump
2 Hot/cold inertial storage kit
3 Wall-hung boiler
4 BAG³ HYBRID
5 Underfloor heating system
6 Tap kit for BAG3 HYBRID system and heat pump side
7 DHW heater
8 DHW boiler coil
9 ¾ "thermostatic mixer
10 Solar collector
11 Manual solar degasser kit
12 Solar hydraulic unit
13 Expansion vessel
14 Intermediate solar tank
15 Solar exchanger
16 Safety valve
17 DHW recirculation pump
18 Fan coil

Hybrid system-Floor standing solutions

Domus Hybrid



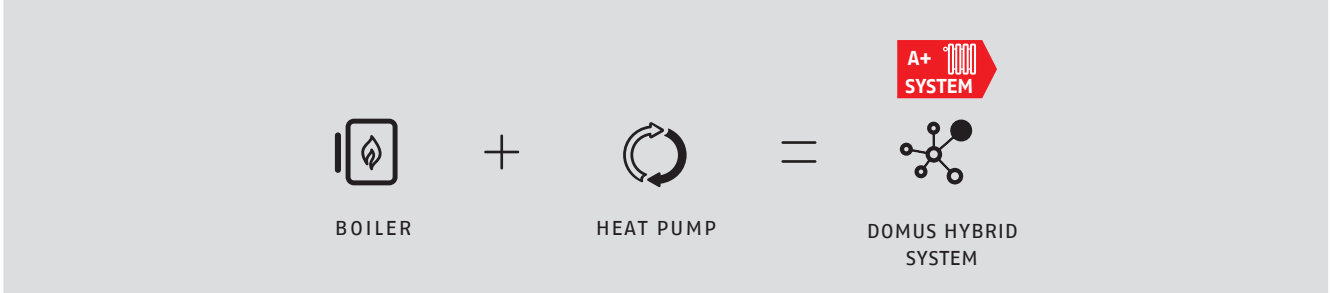
ERP

- Heating, cooling and domestic hot water production
- Intelligent management of two energy sources: condensing boiler and heat pump
- Possibility to control up to 3 indoor zones

Description	H mm	L mm	P mm	Net weight kg
Domus Hybrid 25 B/200	1900	600	775	212
Domus Hybrid 35 B/200	1900	600	775	212

Domus Hybrid is a multi-energy hybrid system for heating, summer cooling and domestic hot water production, consisting of a column unit housing a condensing gas boiler, a 200 litre heater with double coil and a control panel with system intelligence.
Domus Hybrid can be combined with NXHM series air/water monobloc heat pumps for hybrid systems.
All components of the hybrid system interact with each other via communication Modbus.

- Condensing boiler inside the column unit, available with the 2 powers of 25 and 35 kW with condensing heat exchanger, 1:10 modulation ratio and "Range Rated" certification that allows the nominal power to be adjusted to the actual heat demand of the system.
- Column unit equipped with hydraulic separator, diverting valve for domestic hot water production, 200 litre double coil heater, prearranged for control of a direct zone through a low consumption self-modulating circulator. Up to 2 additional zone control kits can be installed inside the column unit, each one with low-consumption self-modulating circulator, in order to manage up to 3 independent temperature zones.
- Control panel for the entire system with large, intuitive and descriptive display; the panel is the system intelligence, capable of activating the most energy-efficient heat source. It can be removed from the column unit and installed inside the house.
- Intelligent system filling that can be activated from system control panel.
- It can be combined with a monobloc air-water heat pump equipped with Modbus communication with the system intelligence, available with 4, 6, 8, 10, 12, 14 and 16 kW power.



HYBRID FLOOR-STANDING BOILER

TECHNICAL DATA

Description	Heat output Heating/Domestic water min-max kW	Working efficiency Nominal output (50°/30°C) %	Working efficiency 30% nominal output (ret. 30 °C) %	Domestic water production ΔT 25° l/min	Fuel	Energy efficiency class		Notes	Code
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION									
Domus Hybrid 25 B/200	2,5-25,0	102,8	106,5	14,3	MTN	A	A	(1)	**20120778**
Domus Hybrid 35 B/200	3,5-35,0	103,5	108,7	17,8	MTN	A	A	(1)	**20120779**

(1) The code does not include the heat pump; to be ordered separately according to actual needs.

MATCHING HEAT PUMPS

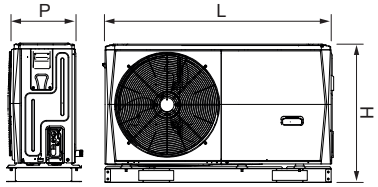
TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
AIR-WATER MONOBLOC SINGLE PHASE											
NXHM 004	4.20	5.10	4.30	3.80	4.50	5.50	4.70	3.45	230/1/50	A++	**20191936**
NXHM 006	6.35	4.95	6.30	3.70	6.50	4.80	7.00	3.00	230/1/50	A++	**20191940**
NXHM 008	8.40	5.15	8.10	3.85	8.30	5.05	7.45	3.35	230/1/50	A++	**20191942**
NXHM 010	10.00	4.95	10.00	3.75	9.90	4.55	8.20	3.25	230/1/50	A++	**20191943**
NXHM 012	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	230/1/50	A++	**20191944**
NXHM 014	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	230/1/50	A++	**20191945**
NXHM 016	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	230/1/50	A++	**20191946**
AIR-WATER MONOBLOC THREE-PHASE											
NXHM 012T	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	400/3/50	A++	**20191947**
NXHM 014T	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	400/3/50	A++	**20191948**
NXHM 016T	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	400/3/50	A++	**20191949**

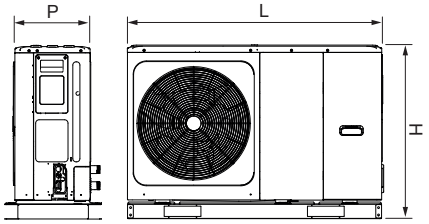
The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS

NXHM 004-006



NXHM 008-016



Description	H mm	L mm	P mm	Net weight kg
NXHM 004	792	1295	429	98
NXHM 006	792	1295	429	98
NXHM 008	945	1385	526	121
NXHM 010	945	1385	526	121
NXHM 012/012T	945	1385	526	144
NXHM 014/014T	945	1385	526	144
NXHM 016/016T	945	1385	526	144

ZONE MANAGEMENT

1 Direct zone as standard in the boiler

Zone management	Additional zones kit
1 direct zone + 1 mixed zone	**20093831**
1 direct zone + 2 mixed zones	**2 x 20093831**
2 direct zones	**20093833**
3 direct zones	**2 x 20093833**
2 direct zones + 1 mixed zone	**20093831 + 20093833**

ACCESSORIES

Description	Notes	Code
DOMUS HYBRID		
Direct hybrid zone kit		**20093833**
Mixed hybrid zone kit		**20093831**
Boiler control panel cover kit (with release button)		**20124351**
REC10H control		**20124352**
Limit thermostat for low-temperature systems		**20085223**
Domestic water recirculation kit with circulator		**20084749**
Heating system and domestic water shut-off cock kit		**20084750**
Installation template kit		**20106844**
Condensate booster pump kit		**20097192**
LPG conversion kit (25 kW)		**20104217**
LPG conversion kit (35 kW)		**20104215**
NXHM HEAT PUMPS		
50 litre inertial buffer tank		**20171999**
1" Y water filter	(1)	**20175281**

(1) The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.

Hi, COMFORT CONTROLS

Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

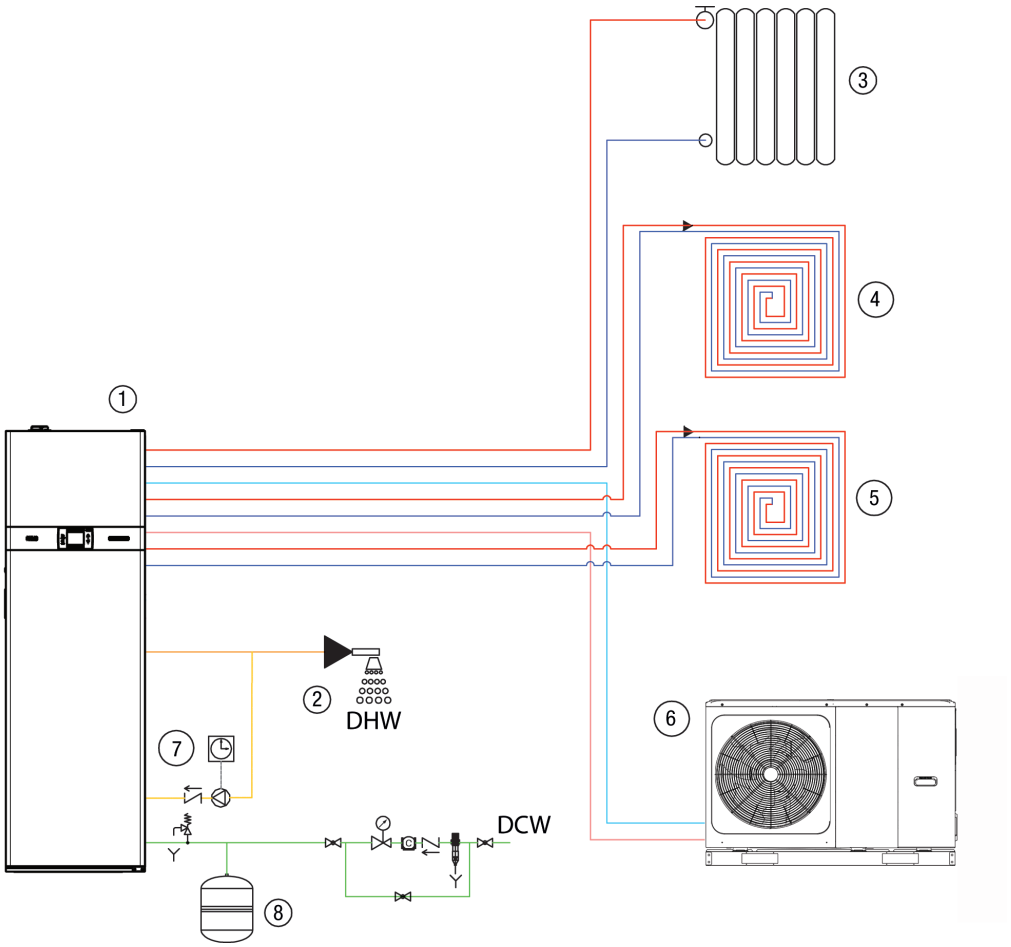
BASIC LAYOUT PURELY FOR ILLUSTRATIVE PURPOSES: COOLING ALSO POSSIBLE USING FAN COIL

Domus Hybrid system priority logics

In domestic hot water production:
1) Heat pump (only if with favourable outdoor temperature conditions and with the possibility of limiting its operation in time slots chosen by the user according to preset usage profiles)
2) Boiler

In heating mode:
1) Heat pump (only in "winter" and only if the outdoor temperature is favourable)
2) Boiler

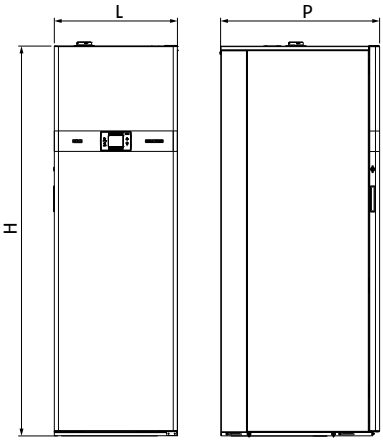
In cooling mode:
1) Heat pump (in “summer” only)



1. DOMUS HYBRID condensing floor-standing boiler
2. User/domestic hot water
3. Direct zone/high temperature
4. Mixed zone/low temperature
5. Mixed zone/low temperature
6. Heat pump
7. Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulator with timer)
8. 8-litre domestic water expansion reservoir, already included as standard inside the column unit

Hybrid system-Floor standing solutions

Domus Hybrid Solar



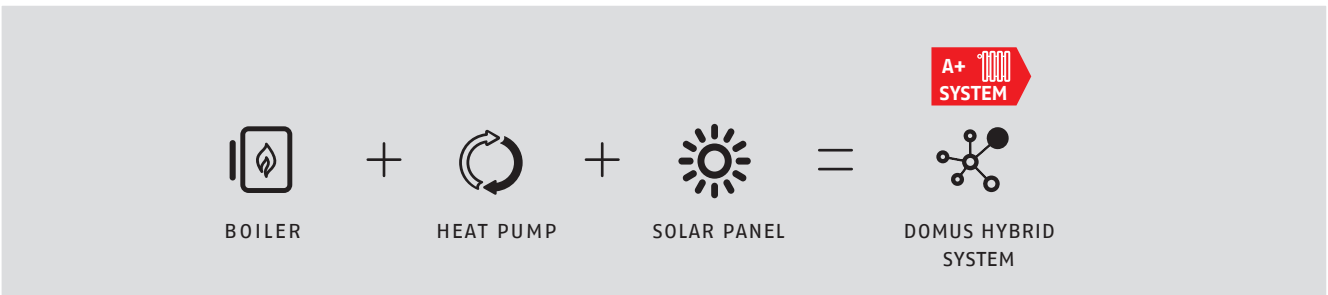
ERP

- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, heat pump and solar thermal
- Possibility to control up to 3 indoor zones

Description	H mm	L mm	P mm	Net weight kg
Domus Hybrid 35 B/200 Solar	1900	600	775	212

Domus Hybrid Solar is a multi-energy hybrid system for heating, summer cooling and domestic hot water production, consisting of a column unit housing a condensing gas boiler, a 200 litre heater with double coil and a control panel with system intelligence. Domus Hybrid Solar can be combined with NXHM series air/water monobloc heat pumps for hybrid systems and with solar collectors. All components of the hybrid system interact with each other via communication Modbus.

- Condensing boiler inside the column unit, available with power of 35 kW with condensing heat exchanger, 1:10 modulation ratio and "Range Rated" certification that allows the nominal power to be adjusted to the actual heat demand of the system.
- Column unit equipped with hydraulic compensator, diverting valve for domestic hot water production, 200 litre double coil heater, prearranged for control of a direct zone through a low consumption self-modulating circulator. Up to 2 additional zone control kits can be installed inside the column unit, each one with low-consumption self-modulating circulator, in order to manage up to 3 independent temperature zones.
- Control panel for the entire system with large, intuitive and descriptive display; the panel is the system intelligence, capable of activating the most energy-efficient heat source. It can be removed from the column unit and installed inside the house.
- Intelligent system filling that can be activated from system control panel.
- It can be combined with a monobloc air-water NXHM heat pump equipped with Modbus communication with the system intelligence, available with 4, 6, 8, 10, 12, 14 and 16 kW power.
- It can be combined with solar collectors; the hydraulic unit and 18-litre expansion reservoir of solar circuit are already included in the Domus Hybrid Solar column.



HYBRID FLOOR-STANDING BOILERS

TECHNICAL DATA

Description	Heat output Heating/ Domestic water min-max kW	Working efficiency		Domestic water production ΔT25° l/min	Fuel	Classe energetica		Notes	Code
		Nominal output (50°/30°C) %	30% nominal output (ret. 30 °C) %						
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION									
Domus Hybrid 35 B/200 Solar	3,5-35,0	103,5	108,7	17,8	MTN	A	A	(1)	**20120780**

(1) The code does not include the heat pump; to be ordered separately according to actual needs.

MATCHING HEAT PUMPS

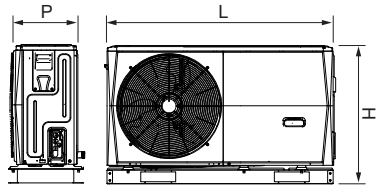
TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
AIR-WATER MONOBLOC SINGLE PHASE											
NXHM 004	4.20	5.10	4.30	3.80	4.50	5.50	4.70	3.45	230/1/50	A++	**20191936**
NXHM 006	6.35	4.95	6.30	3.70	6.50	4.80	7.00	3.00	230/1/50	A++	**20191940**
NXHM 008	8.40	5.15	8.10	3.85	8.30	5.05	7.45	3.35	230/1/50	A++	**20191942**
NXHM 010	10.00	4.95	10.00	3.75	9.90	4.55	8.20	3.25	230/1/50	A++	**20191943**
NXHM 012	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	230/1/50	A++	**20191944**
NXHM 014	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	230/1/50	A++	**20191945**
NXHM 016	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	230/1/50	A++	**20191946**
AIR-WATER MONOBLOC THREE-PHASE											
NXHM 012T	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	400/3/50	A++	**20191947**
NXHM 014T	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	400/3/50	A++	**20191948**
NXHM 016T	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	400/3/50	A++	**20191949**

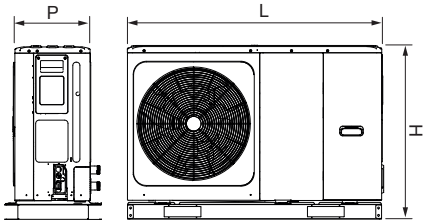
The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS

NXHM 004-006



NXHM 008-016



Description	H mm	L mm	P mm	Net weight kg
NXHM 004	792	1295	429	98
NXHM 006	792	1295	429	98
NXHM 008	945	1385	526	121
NXHM 010	945	1385	526	121
NXHM 012/012T	945	1385	526	144
NXHM 014/014T	945	1385	526	144
NXHM 016/016T	945	1385	526	144

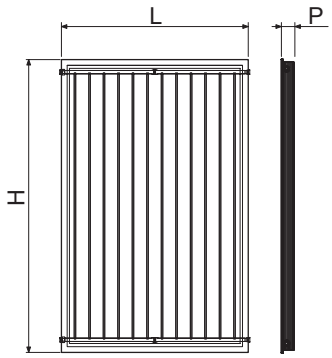
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code
	Gross m^2	Net m^2	η0	a1 W/m^2K	a2 W/m^2K^2			
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	200	(1)	**20127137**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 223.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44

ZONE MANAGEMENT

1 Direct zone as standard in the boiler

Zone management	Additional zones kit
1 direct zone + 1 mixed zone	**20093831**
1 direct zone + 2 mixed zones	**2 x 20093831**
2 direct zones	**20093833**
3 direct zones	**2 x 20093833**
2 direct zones + 1 mixed zone	**20093831 + 20093833**

ACCESSORIES

Description	Notes	Code
DOMUS HYBRID SOLAR		
Direct hybrid zone kit		**20093833**
Mixed hybrid zone kit		**20093831**
Boiler control panel cover kit (with release button)		**20124351**
REC10MH remote control		**20193921**
Limit thermostat for low-temperature systems		**20085223**
Domestic water recirculation kit with circulator		**20084749**
Heating system and domestic water shut-off cock kit		**20084750**
Installation template kit		**20106844**
Condensate booster pump kit		**20097192**
LPG conversion kit (25 kW)		**20104217**
LPG conversion kit (35 kW)		**20104215**
NXHM HEAT PUMPS		
50 litre inertial buffer tank		**20171999**
1" Y water filter	(1)	**20175281**
SOLAR THERMAL		
Solar collector probe kit		**20008787**
Manual solar degasser kit	(2)	**20026577**
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		**20132142**

Description	Notes	Code
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		**20132143**
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		**4383254**
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		**4383255**
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		**4383085**
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		**4383059**

(1) The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.
(2) Use one for each set of manifolds mounted in the highest position.

Hi, COMFORT CONTROLS

Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

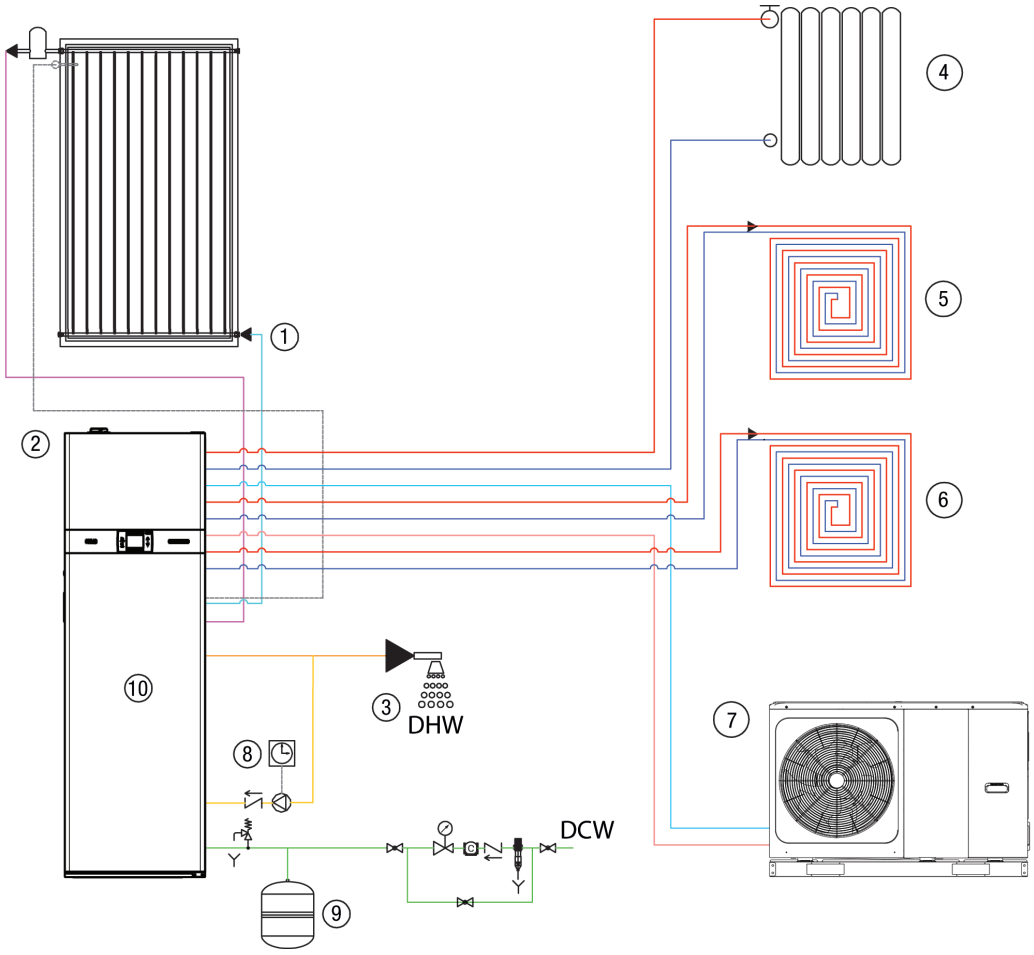
BASIC LAYOUT PURELY FOR ILLUSTRATIVE PURPOSES: COOLING ALSO POSSIBLE USING FAN COIL

DOMUS HYBRID SOLAR system priority logics:

In domestic hot water production:
1) Solar thermal
2) Boiler

In heating mode:
1) Heat pump (only in "winter" and only if the outdoor temperature is favourable)
2) Boiler

In cooling mode:
1) Heat pump (in “summer” only)



1. Solar collector
2. Domus Hybrid Solar condensing floor-standing boiler
3. User/domestic hot water
4. Direct zone/high temperature
5. Mixed zone/low temperature
6. Mixed zone/low temperature
7. Heat pump
8. Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulator with timer)
9. 8-litre domestic water expansion reservoir, already included as standard inside the column unit
10. 18-litre solar expansion reservoir included as standard inside the column unit

HYBRID SYSTEMS WITH SPLIT HEAT PUMP

WALL-HUNG SPLIT HEAT PUMPS

WALL-HUNG BOILERS

COMBINED AND HEATING ONLY BOILERS

RES WALL-HUNG SPLIT HYBRID SYSTEM

NEW

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HEATING ONLY BOILERS

HYBRID PRO WALL-HUNG SYSTEM

CONDEXA PRO 57-70 P
CONDEXA PRO 90-115

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FLOOR-STANDING BOILERS

HEATING ONLY BOILERS

HYBRID PRO FLOOR-STANDING SYSTEM

TAU UNIT 35-115

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FLOOR-STANDING SPLIT HEAT PUMPS

RES FLOOR-STANDING SPLIT HYBRID SYSTEM

NEW

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SOLAR RES FLOOR-STANDING SPLIT HYBRID SYSTEM

NEW

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Hybrid systems-Wall-hung solution

RES wall-hung split hybrid system

NEW

ERP

- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Large display for setting and monitoring the entire system

A wall-hung hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating only or combined boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with high-efficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- the heat pump: wall-hung split air-water type of the FAMILY ES series, available in versions ranging from 5 to 15 kW, with wall-hung indoor unit for heating and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The indoor unit houses the main components of the hydronic system, high surface plate exchanger and high-efficiency electronic circulation pump. The outdoor unit also stands out for its extreme compactness, with all the hydraulic and cooling connections in the lower part of the unit.
- The hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEI≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.
- Simple and intuitive control panel with large backlit display, characterised by advanced management logics of the hybrid system, in order to guarantee maximum efficiency by giving priority to the most efficient heat source according to the outside temperature. The panel allows the full parametrisation of the system, as well as displaying the operating status. It is supplied with heat pump, complete with bracket, to be positioned directly inside the rooms.

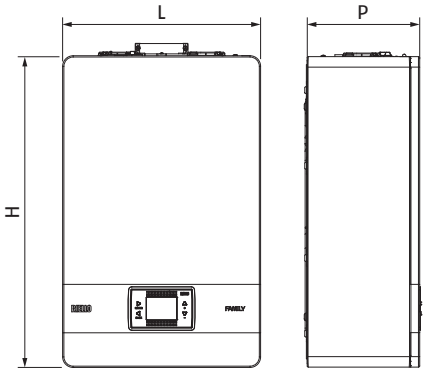
WALL-HUNG BOILERS

TECHNICAL DATA

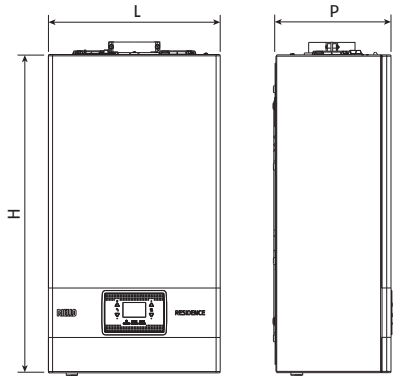
Description	Heat output Heating/Domestic Water min-max kW	Working efficiency		Domestic water production ΔT 25° l/min	Energy efficiency class		Notes	Code
		Nominal output (50°/30°C) %	30% of nominal output (ret. 30 °C) %					
INSTANTANEOUS COMBINED HEATING AND DOMESTIC WATER VERSION								
FAMILY 25 KIS	3.6-20.0/3.6-25.0	106.6	109.1	15.1	A	A	(1)	**20187642**
FAMILY 30 KIS	4.9-25.0/4.9-30.0	107.5	109.5	18.1	A	A	(1)	**20187644**
FAMILY 35 KIS	4.9-32.0/4.9-34.6	107.4	109.5	20.1	A	A	(1)	**20187645**
RESIDENCE 25 KIS	3.6-20.0/3.6-25.0	106.2	108.4	15.1	A	A	(1)(2)	**20139525**
RESIDENCE 30 KIS	4.9-25.0/4.9-30.0	106.0	108.1	18.1	A	A	(1)(2)	**20148496**
RESIDENCE 35 KIS	4.9-30.0/4.9-34.6	106.9	108.2	20.8	A	A	(1)(2)	**20139527**
RESIDENCE HYBRID 25 KIS	3.1-20.0/3.1-25.0	105	109.6	14.3	A	A	(3)	**20130398**
RESIDENCE HYBRID 32 KIS	3.7-30.0/3.7-32.0	104.7	109.5	18.3	A	A	(3)	**20130399**
RESIDENCE IN HYBRID 25 KIS	3.1-20.0/3.1-25.0	105	109.6	14.3	A	A	(3)	**20118748**
RESIDENCE IN HYBRID 32 KIS	3.7-30.0/3.7-32.0	104.7	109.5	18.3	A	A	(3)	**20118749**
HEATING-ONLY VERSION								
FAMILY 25 IS	3.6-20.0/3.6-25.0	106.6	109.1	/	A	-	(1)	**20187643**
FAMILY 35 IS	4.9-32.0/4.9-34.6	107.5	109.5	/	A	-	(1)	**20187646**
RESIDENCE 20 IS	3.6-20.0/3.6-20.0	106.2	108.4	-	A	-	(1)(2)	**20139526**
RESIDENCE 35 IS	4.9-30.0/4.9-34.6	106.9	108.2	-	A	-	(1)(2)	**20139528**
RESIDENCE IN HYBRID 25 IS	3.1-20.0/3.1-25.0	105	110	-	A	-	(3)	**20135128**
BUILT-IN UNIT								
IN-WALL INSTALLATION BOX							(4)	**20082310**

(1) The external probe is not included in the boiler supply, but is available as accessory with code 1220559.
(2) A wall-hung hybrid system requires the replacement of boiler display with code 20193921.
(3) The boiler code includes hybrid system control panel and external probe.
(4) To be used for Family 25 KIS and Residence 25 KIS.

OVERALL DIMENSIONS

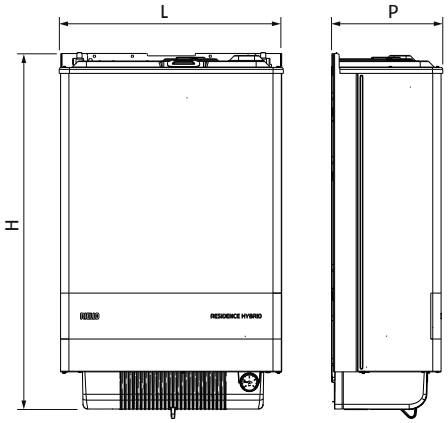


Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	40
FAMILY 35 KIS	740	470	350	40
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

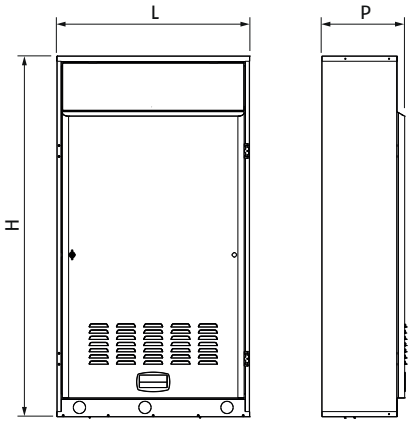


Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

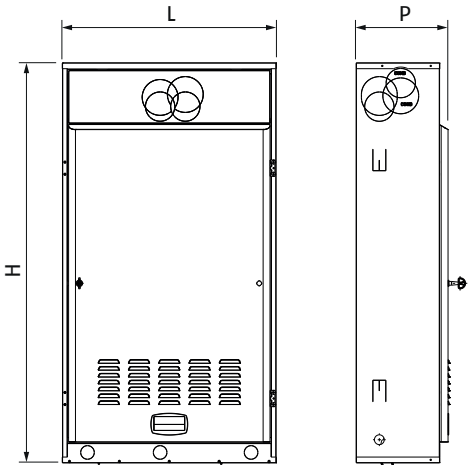
Height including SRD device: 822 mm



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HYBRID 25 KIS	872	553	275	44
RESIDENCE HYBRID 32 KIS	872	553	275	46



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE IN HYBRID 25 KIS	785	553	268	42
RESIDENCE IN HYBRID 32 KIS	785	553	268	43
RESIDENCE IN HYBRID 25 IS	785	553	268	40



Description	H mm	L mm	P mm	Net weight kg
IN-WALL INSTALLATION BOX	1223	654	281	21

HEAT PUMPS

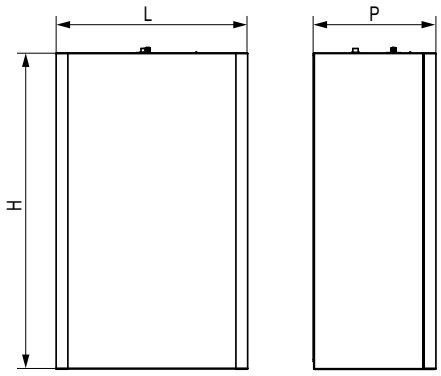
TECHNICAL DATA

Description	Heating				Cooling				Electrical power supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR AND OUTDOOR UNITS												
FAMILY ES 5M	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	230/1/50	A++	A++	**20181792**
FAMILY ES 7M	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	230/1/50	A++	A++	**20181795**
FAMILY ES 9M	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	230/1/50	A+++	A++	**20181796**
FAMILY ES 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A++	**20181797**
FAMILY ES 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A++	**20181805**
FAMILY ES 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A++	**20181803**
FAMILY ES 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A++	**20181806**

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016.
(1) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.
(2) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 40/45°C.
(3) External air temperature 35°C; water inlet/outlet 23/18°C.
(4) External air temperature 35°C; water inlet/outlet 12/7°C.
(5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.
(6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

OVERALL DIMENSIONS

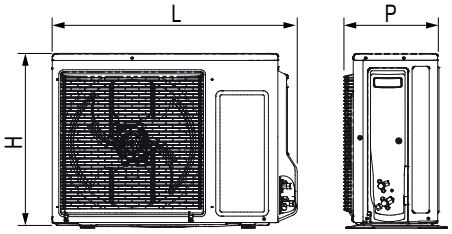
INDOOR UNIT



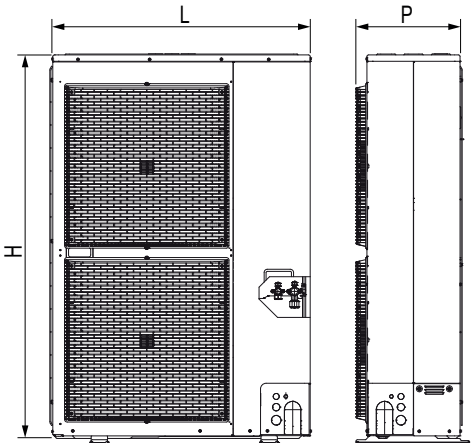
Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
FAMILY ES	825	505	325	41-49
OUTDOOR UNIT				
FAMILY ES 5M	619	799	299	39
FAMILY ES 7M	619	799	299	40
FAMILY ES 9M	996	940	340	69
FAMILY ES 12M/12T	1416	940	340	98
FAMILY ES 15M/15T	1416	940	340	98

OUTDOOR UNIT

MODELS 5M-7M-9M



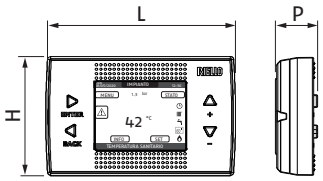
MODELS 12M-15M-12T-15T



REC10 I CONTROL

Note: the hybrid system control is supplied with the FAMILY ES heat pump.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
REC10 i control	90	146	32	0.15

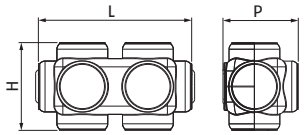
COMBINABLE HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

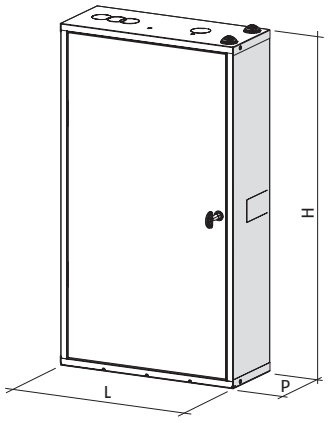
Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITHOUT SEPARATOR					
HBOX – 1D HYBRID DISTRIBUTION MODULE	1 direct zone	–	–	(1)	**20165227**
DISTRIBUTION MODULES WITH SEPARATOR					
BAG³ HYBRID 1D	1 direct zone	230/1/50	57	(2)(5)	**20130805**
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	**20130807**
IN-WALL INSTALLATION BOX	–	–	–	(4)	**20130808**

(1) Can be combined with FAMILY ES 5-7-9-12 heat pumps. For combinations with FAMILY ES 15, check the circulator curve.
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
(5) Supplied without in-wall installation box.

OVERALL DIMENSIONS

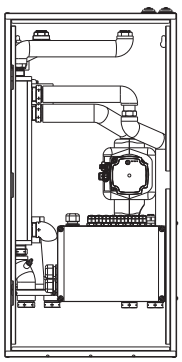


Description	H mm	L mm	P mm	Net weight kg
HBOX – 1D HYBRID DISTRIBUTION MODULE	107	187	92	0.9

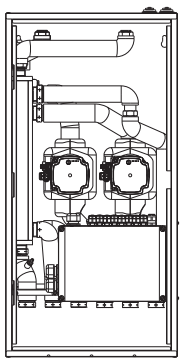


Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	17
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

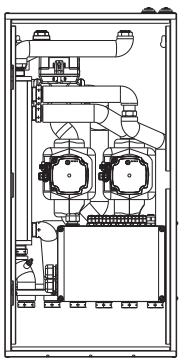
BAG³ HYBRID 1D



BAG³ HYBRID 2D



BAG³ HYBRID 1D+1M



ACCESSORIES

Description	Notes	Code
HB0X adjustable bypass valve	(1)	**20182807**

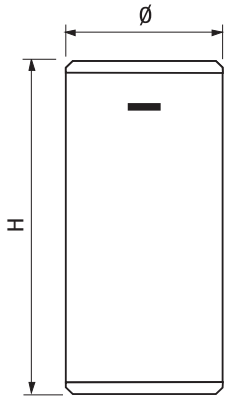
(1) Mandatory accessory when using HB0X - 1D hybrid distribution module code 20165227 with variable flow systems.

INERTIAL STORAGE TANKS TO BE MATCHED

TECHNICAL DATA

Description	Volume delivered l	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code no.
7000 ACI 60 PLUS	57	99	6	34	B	**20090056**
7000 ACI 120 PLUS	123	99	6	50	B	**20082450**

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35

Dimensions and weight with insulation.

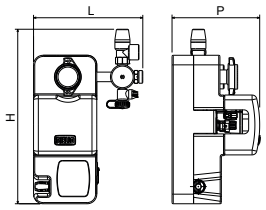
SOLAR HYDRAULIC UNITS TO BE MATCHED

TECHNICAL DATA

Description	Connections and ball valves	Net surface connectable collectors* m^2	Notes	Code
RSS R	Return-only	20	(1)	**20116168**

(1) Compatible with PWM and ON/OFF control.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RSS R	364	228	183	4.1

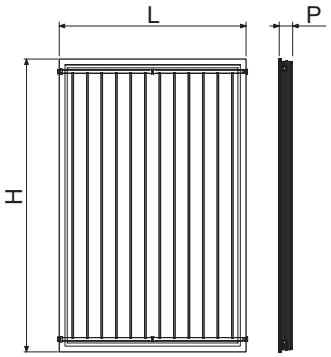
SOLAR COLLECTORS TO BE MATCHED

TECHNICAL DATA

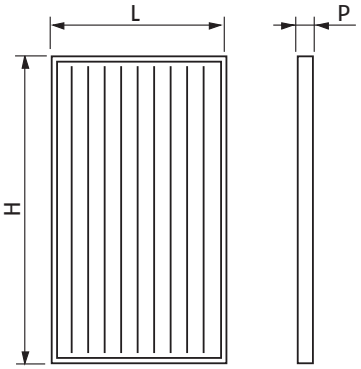
Description	Collector surface Gross m²	Collector surface Net m²	Values referred to the opening area ηo	a1 W/m²K	a2 W/m²K²	Stagnation temperature °C	Notes	Code no.
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2.3	2.14	0.802	4.28	0.0064	200	(1)	**20127137**
CSAL 20 RS	1.91	1.77	0.781	4.98	0.0005	192	(1)	**20094521**
CSV 25 R	2.77	2.69	0.7	1.15	0.011	268	(1)	**20023353**
CSV 35 R	3.91	3.84	0.7	1.15	0.011	268	(1)	**20023416**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 223.

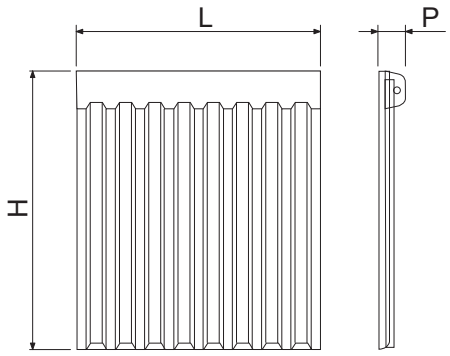
OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44



Description	H mm	L mm	P mm	Net weight kg
CSAL 20 RS	1818	1097	70	30



Description	H mm	L mm	P mm	Net weight kg
CSV 25 R	1730	1600	145	52
CSV 35 R	1730	2260	145	74

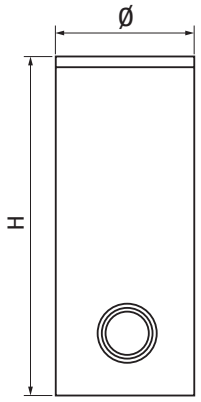
DHW HEATERS TO BE MATCHED

TECHNICAL DATA

Description	Volume delivered (l)	Lower coil exchange surface (m²)	Upper coil exchange surface (m²)	Upper coil exchange power (kW)*	Single coil exchange surface (kW)*	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Notes	Code
7200 300 HP	263	4.0	-	-	96	99	10	85	C	(1)	**4383500**
7200 500 HP	470	6.0	-	-	156	99	10	112	C	(2)	**4383501**
RBC 150 1S	162	0.85	-	-	27	99	10	55	B		**20124167**
RBC 200 1S	207	1.38	-	-	39	99	10	58	B		**20124168**
RBC 300 1S	305	1.7	-	-	49	99	10	68	B		**20124169**
RBC 430 1S	445	2.0	-	-	56	99	10	73	B		**20124170**
RBS 200 2S	208	0.7	0.7	16.1	-	99	10	62	B		**20116675**
RBS 300 2S	301	1.0	0.8	23.0	-	99	10	69	B		**20116335**
RBS 430 2S	430	1.4	1.0	31.4	-	99	10	75	B		**20117339**

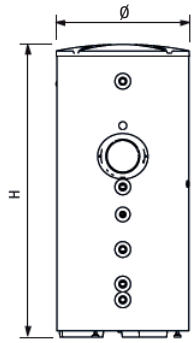
* With Δt = 20°C and primary temperature of 80 °C.
(1) Can be combined with Family ES 5 and 9 heat pumps.
(2) Can be combined with Family ES 12 and 15 heat pumps.

OVERALL DIMENSIONS



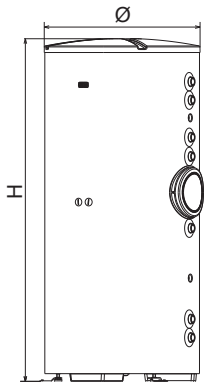
Description	H mm	Ø mm	S (*) mm	Net weight kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166

(*) Insulation thickness.
Dimensions and weight with insulation.



Description	H mm	Ø mm	S (*) mm	Net weight kg
RBC 150 1S	1088	604	52	62
RBC 200 1S	1338	604	52	78
RBC 300 1S	1838	604	52	103
RBC 430 1S	1644	755	52	131

(*) Insulation thickness.
Dimensions and weight with insulation.



Description	H mm	Ø mm	S (*) mm	Net weight kg
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
RBS 430 2S	1644	755	50	146

(*) Insulation thickness.
Dimensions and weight with insulation.

GUIDE TO SYSTEM CONFIGURATION

1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

Description	Code	Built-in unit		Possible heat pump combinations							Hydraulic distribution (1)			
		IN-WALL INSTALLATION BOX	IN-WALL INSTALLATION BOX	FAMILY ES 5M	FAMILY ES 7M	FAMILY ES 9M	FAMILY ES 12M	FAMILY ES 15M	FAMILY ES 12T	FAMILY ES 15T	HBOX - 1D MODULE	BAG³ HYBRID 1D	BAG³ HYBRID 2D	BAG³ HYBRID 1D+1M
		20082310	20161604	20181792	20181795	20181796	20181797	20181805	20181803	20181806	20165227	20130805	20130806	20130807
INSTANTANEOUS COMBINED HEATING AND DOMESTIC WATER VERSION														
FAMILY 25 KIS	**20187642**	●		●	●	●					●	●	●	●
FAMILY 30 KIS	**20187644**			●	●	●					●	●	●	●
FAMILY 35 KIS	**20187645**			●	●	●	●	●	●	●	●	●	●	●
RESIDENCE 25 KIS	**20139525**	●		●	●	●					●	●	●	●
RESIDENCE 30 KIS	**20148496**			●	●	●					●	●	●	●
RESIDENCE 35 KIS	**20139527**			●	●	●	●	●	●	●	●	●	●	●
RESIDENCE HYBRID 25 KIS	**20130398**			●	●	●					●	●	●	●
RESIDENCE HYBRID 32 KIS	**20130399**			●	●	●	●	●	●	●	●	●	●	●
RESIDENCE IN HYBRID 25 KIS	**20118748**	●		●	●	●					●	●	●	●
RESIDENCE IN HYBRID 32 KIS	**20118749**	●		●	●	●	●	●	●	●	●	●	●	●
HEATING-ONLY VERSION														
FAMILY 25 IS	**20187643**			●	●	●					●	●	●	●
FAMILY 35 IS	**20187646**			●	●	●	●	●	●	●	●	●	●	●
RESIDENCE 20 IS	**20139526**			●	●	●					●	●	●	●
RESIDENCE 35 IS	**20139528**			●	●	●	●	●	●	●	●	●	●	●
RESIDENCE IN HYBRID 25 IS	**20135128**	●		●	●	●					●	●	●	●

(*) The following combinations ensure the best energy performance; for the complete list of certified hybrid systems, refer to the company declaration.(2) Combine the in-wall installation box code 20130808 only with BAG³ HYBRID code 20130805, 20130806 and 20130807.
(1) Combine the in-wall installation box code 20130808 only with BAG³ HYBRID code 20130805, 20130806 and 20130807.

2. WALL-HUNG BOILER ACCESSORIES

Description	Notes	Code
FAMILY BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
System and gas cock kit for recessed installation (25 KIS model only)		20137668
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Compact magnetic water filter		20191517
Compact polyphosphate dispenser		20191518
Double relay kit (second pump/lockout signal)		20062614
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed split system kit Ø80 mm		20129765
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Split kit B23 Ø80 mm for in-wall installation box		20129768
Adapter kit B23 Ø80 mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for combined versions		20193278
Anti-freeze resistance kit for heating-only versions		20193279
RESIDENCE BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
System and gas cock kit for recessed installation (25 KIS model only)		20137668
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
High head circulator kit		20105883
RESIDENCE HYBRID BOILERS		
Open-air installation kit		20011638
Anti-freeze resistance kit		20164833
Condensate booster pump kit		20097192
Wall-hung hydraulic connection kit		20130639
Heating system cock kit		4047252
Clapet kit		20100893
LPG conversion kit (for 25 kW only)		20102669
LPG conversion kit (for 32 kW only)		20102674
Propane air conversion kit (for 25 kW only)		20102673
RESIDENCE IN HYBRID BOILERS		
Door kit for recessed installation	(3)	4047250
Heating system cock kit		4047252
Wall-hung connection kit		4047255
External probe		1220559
Anti-freeze resistance kit for KIS versions		20164827
Anti-freeze resistance kit for IS versions		20164828
Condensate booster pump kit		20097192
Remote heater well probe (for pairing with IS version)		1220599
LPG conversion kit for Residence In Condens 20 IS and 25 KIS		20102669
LPG conversion kit for Residence In Condens 32 KIS		20102674
Propane air conversion kit for Residence In Condens 25 KIS		20102673
Clapet kit		20162838

(1) Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.
(2) Code required in case of horizontal discharge with flue system Ø60/100. Accessory already included in kits 20129175 and 20129176.
(3) For retrofit on old boxes without door.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

Description	Notes	Code
1" Y water filter		**20175281**
50 litre inertial buffer tank	(1)	**20171999**

(1) Inertial storage cannot be installed horizontally below the heat pump.

3.2 Secondary circuit management

Description	Notes	Code
1" DHW diverting valve with heater probe		**20175064**
Immersion probe	(1)	**1220599**
1st direct/mixed area control		**20132795**
Control of 2nd and 3rd direct/mixed zone		**20132796**

(1) Used for secondary circuit and heater management.
Note: for ambient temperature adjustment, refer to section SYSTEM ACCESSORIES - THERMOSTATS AND PROGRAMMABLE THERMOSTATS

3.3 Hybrid distribution module accessories

Description	Notes	Code
Cock kit on system and heat pump side		**20131752**
Photovoltaic system input card	(1)	**20165741**
Diverting valve kit for BAG³ HYBRID		**20131755**
Diverting valve kit for HB0X		**20168920**
Solar interface kit		**20131756**

(1) To be used only if the diverting valve (code 20131755) is not present in BAG³ HYBRID configuration.

3.4 DHW heater accessories

Description	Notes	Code
Electronic anode equipped with plug	(1)	**20055206**
Thermometer kit	(1)	**20123850**
Curve kit for electronic anode	(1)	**20123851**
Solar heat exchanger 0.8 m² for HP 300	(2)	**4383504**
Solar heat exchanger 1.2 m² for 500 HP and 800 HP	(3)	**4383505**
Solar mixing diverting valve kit	(4)	**20025113**

(1) RBC 1S and RBS 2S series heater accessories.
(2) 7200 300 HP heater accessories.
(3) 7200 500 HP and 7200 800 HP heater accessories.
(4) Mandatory in case of domestic water heater installation and KIS model boiler.

3.5 Solar circuit management

Description	Notes	Code
RSS R solar hydraulic unit	(1)(2)(3)	**20116168**
Solar interface kit	(4)	**20131756**

(1) The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.
(2) Net surface area of collectors to be connected 20 m².
(3) Connections and ball valves on the return line.
(4) It allows viewing the operating status of the solar system on the REC10 I system interface.
Note: if collectors with net surface >20 m² are installed, refer to section SOLAR THERMAL SYSTEM AND HEATERS - ACCESSORIES - HYDRAULIC UNITS AND SOLAR ADJUSTMENTS.
Note: for selection of accessories for solar panels, refer to section SOLAR THERMAL SYSTEM AND HEATERS - SOLAR PANELS.

4. Hi, COMFORT CONTROLS

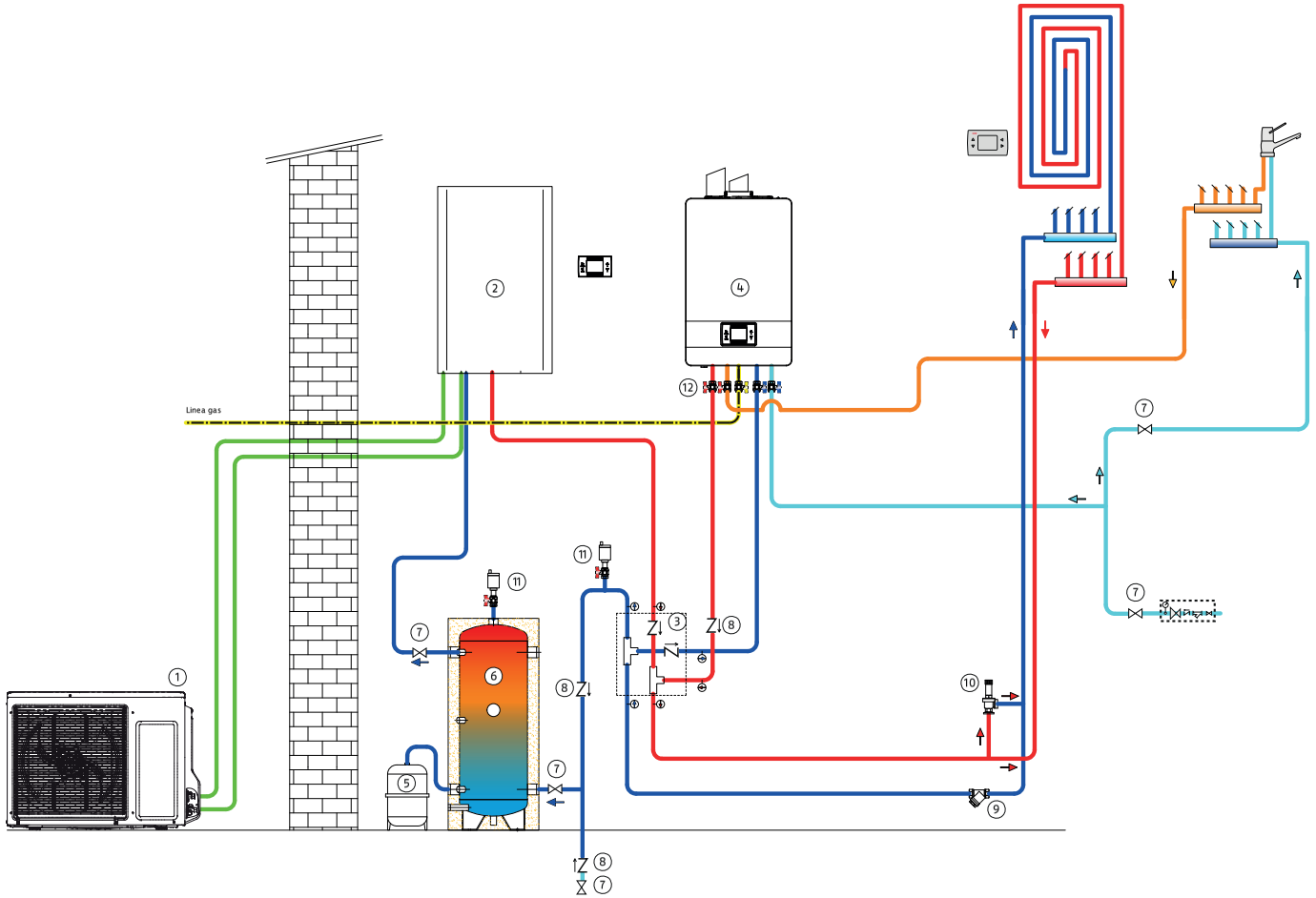
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

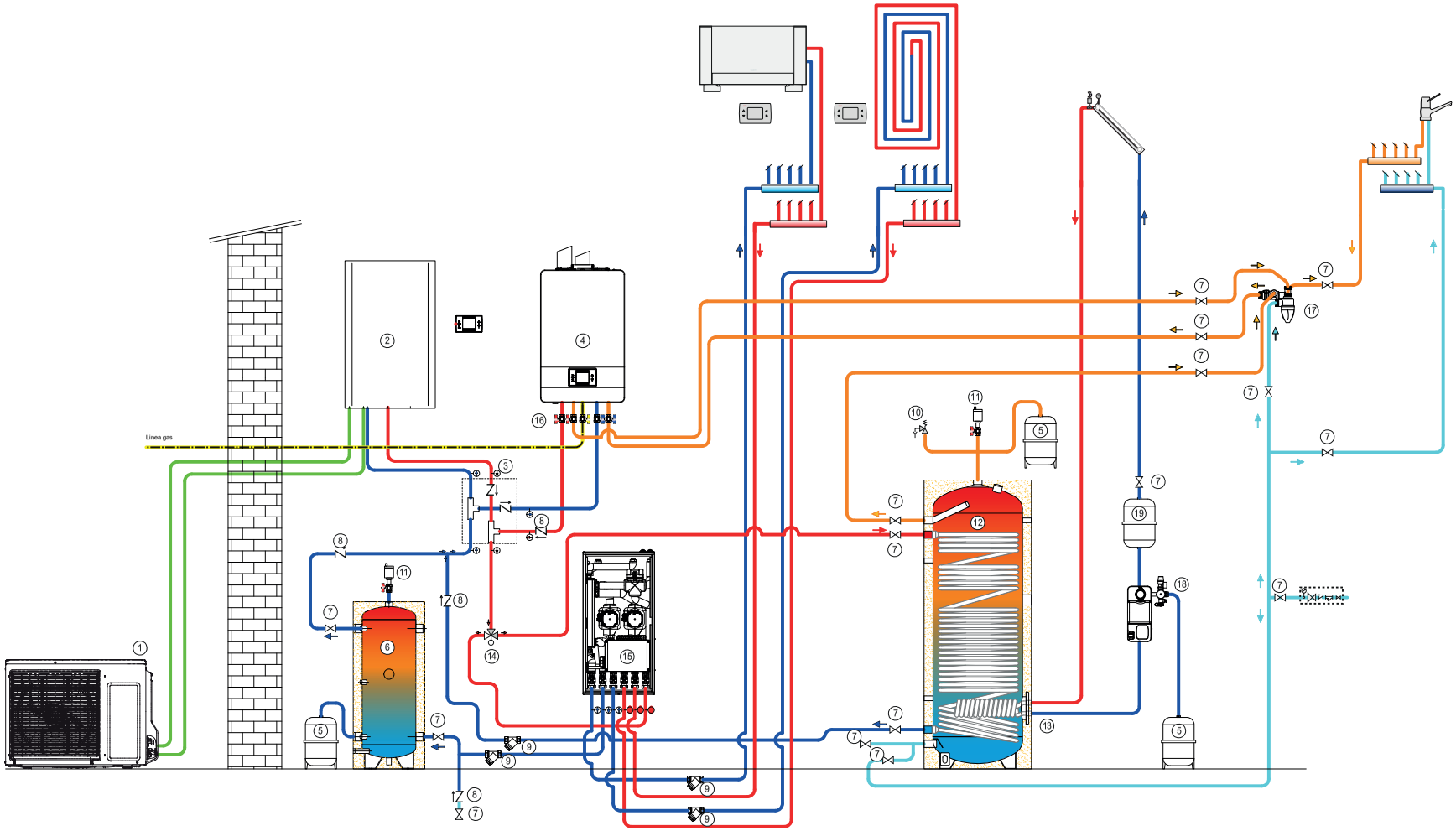
EXAMPLES OF SYSTEM WITH SPLIT HYBRID SYSTEM

ONE-ZONE HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP AND BOILER



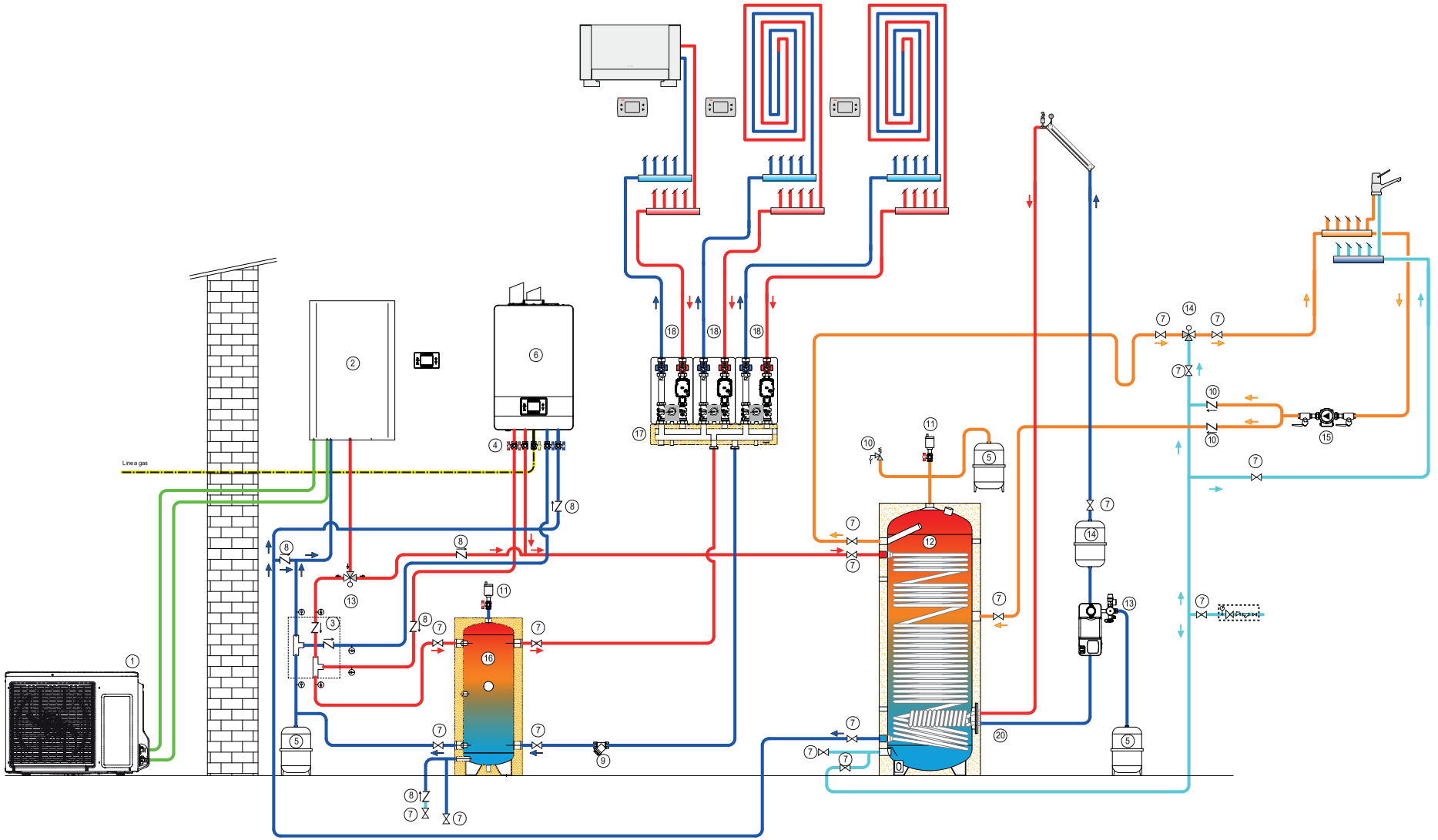
1 Heat pump outdoor unit
2 Heat pump indoor unit with circulator and reservoir
3 Hydraulic module with non-return valves
4 Boiler with circulator and reservoir
5 Expansion reservoir
6 Storage tank
7 Shut-off valve
8 Non-return valve
9 Filter
10 Adjustable bypass valve
11 Deaerator
12 Under-boiler cock kit

MONOVALENT TWO-ZONE HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP, BOILER AND SOLAR SYSTEM



1 Heat pump outdoor unit
2 Heat pump indoor unit with circulator and reservoir
3 Hydraulic module with non-return valves
4 Boiler with circulator and reservoir
5 Expansion reservoir
6 Storage tank
7 Shut-off valve
8 Non-return valve
9 Filter
10 Safety valve
11 Deaerator
12 DHW heater
13 Removable coil
14 DHW diverting valve
15 Hydraulic module with pumps and hydraulic compensator
16 Under-boiler cock kit
17 DHW diverting-mixing valve
18 Solar station with control unit
19 Pre-reservoir

MONOVALENT THREE-ZONE HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP, BOILER AND SOLAR SYSTEM



1 Heat pump outdoor unit
2 Heat pump indoor unit with circulator and reservoir
3 Hydraulic module with non-return valves
4 Under-boiler cock kit
5 Expansion reservoir
6 Boiler with circulator and reservoir
7 Shut-off valve
8 Non-return valve
9 Filter
10 Safety valve
11 Deaerator
12 DHW heater
13 DHW diverting valve
14 DHW mixer
15 DHW recirculation pump
16 Storage tank
17 Distribution collector
18 Hydraulic distribution module
19 System management electronic boards
20 Removable coil
21 Solar station with control unit
22 Pre-reservoir

Hybrid systems-Wall-hung solution

Hybrid PRO wall-hung system

NEW

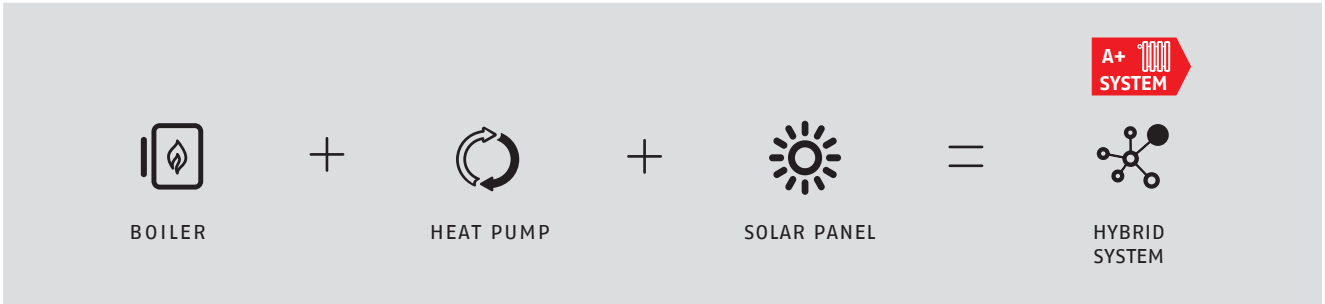
ERP

- Heating and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Large display for setting and monitoring the entire system
- Possibility to control up to 3 independent zones

The Hybrid PRO wall-hung system is a multi-energy hybrid system for room heating and domestic hot water production. This system is made by combining three main components together:

- Stand alone wall-hung boiler of the CONDEXA PRO series, available in versions ranging from 57 up to 112 kW of heat input, to be installed internally either in open chamber or sealed configuration. Range equipped with the heat exchanger with two concentric pipes, in stainless steel, respectively having a pentagonal section on the inside and circular on the outside. The shunt pump with modulating regulation (standard on models 57-70 P, optional on models 90-112) allows operating with a constant and settable ΔT, thus reducing the system set-up time and maximising condensation. The optimal management of combustion and the high modulation ratios (1:5) allow high efficiency and low polluting emissions (Class 6 according to UNI EN 15502-1). Maximum operating pressure: 6 bar. Included as standard: boiler drain cock, LPG transformation kit and wall bracket.
- FAMILY ES series split heat pump, available in versions ranging from 12 up to 25 kW, with wall-hung indoor unit for heating and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The indoor unit houses the main components of the hydronic system, high surface plate exchanger and high-efficiency electronic circulation pump. The outdoor unit also stands out for its extreme compactness, with all the hydraulic and cooling connections in the lower part of the unit.
- Simple and intuitive control panel with large backlit display, featured by advanced management logics of the hybrid system, in order to ensure maximum efficiency by giving priority to the most efficient heat source according to the outside temperature. The panel allows the full parametrisation of the system, as well as displaying the operating status. It is supplied with heat pump, complete with bracket, to be positioned directly inside the rooms.

A wide range of accessories is available to complete the system and ensure simple, fast installation in order to meet different installation requirements.

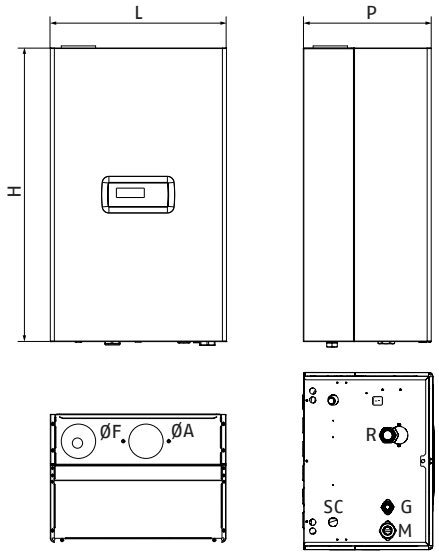


WALL-HUNG BOILERS

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Energy efficiency class	Language	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
CONDEXA PRO 57 P	55,7	61,9	14,0-57,0	98,3	108,6	109,2	A	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115223** **20150685** **20151706** **20151726** **20151754** **20151824** **20192124**
CONDEXA PRO 70 P	67,0	73,9	14,0-68,0	97,9	108,1	108,8	A	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115224** **20150686** **20151707** **20151727** **20151756** **20151825** **20192125**
CONDEXA PRO 90	88,3	97,4	19,4-90,0	98,0	108,3	108,9	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115225** **20150687** **20151709** **20151728** **20151759** **20151826** **20192126**
CONDEXA PRO 100	95,3	105,1	19,4-97,0	97,9	108,2	108,8	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115226** **20150688** **20151721** **20151730** **20151762** **20151827** **20192127**
CONDEXA PRO 115	109,8	121,1	22,4-112,0	98,3	108,6	108,8	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115228** **20150689** **20151722** **20151731** **20151767** **20151828** **20192128**

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Ø mm	Net weight kg
CONDEXA PRO 57 P	1000	600	435	80	64
CONDEXA PRO 70 P	1000	600	435	80	64
CONDEXA PRO 90	1000	600	435	110	69
CONDEXA PRO 100	1000	600	435	110	69
CONDEXA PRO 115	1170	600	435	110	84

M-DELIVERY LINE G 1"½
G-GAS G 1"
R-RETURN LINE G 1"½
SC-CONDENSATE DRAIN Ø24 mm
ØF-FLUE GAS
ØA-AIR (opt)

HEAT PUMPS

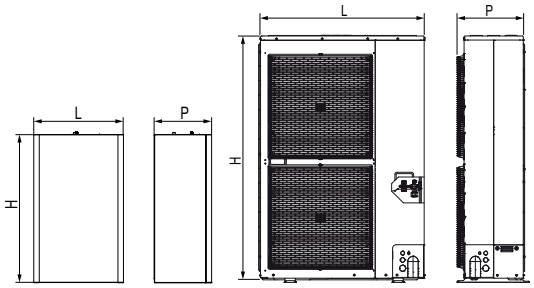
TECHNICAL DATA

Description	Heating				Cooling (*)				Electrical power supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR AND OUTDOOR UNITS												
FAMILY ES 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A++	**20181797**
FAMILY ES 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A++	**20181805**
FAMILY ES 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A++	**20181803**
FAMILY ES 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A++	**20181806**
FAMILY ES 18T	16.9	4.37	15.9	3.18	19.4	4.13	13.9	3.19	400/3+N/50	A++	A++	**20181807**
FAMILY ES 25T	24.8	4.06	23.2	2.93	27.9	4.20	19.9	3.15	400/3+N/50	A++	A++	**20181809**

(*) If the heat pump is installed in the Hybrid PRO wall-hung system, the cooling function is disabled.
The performance is in accordance with standards EN 14511:2013 and EN 14825:2016.
(1) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.
(2) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 40/45°C.
(3) External air temperature 35°C; water inlet/outlet 23/18°C.
(4) External air temperature 35°C; water inlet/outlet 12/7°C.
(5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.
(6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

OVERALL DIMENSIONS

INDOOR UNIT OUTDOOR UNIT

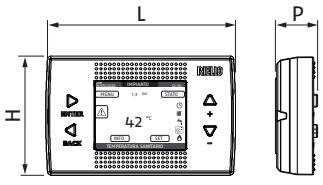


Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
FAMILY ES	825	505	325	41-49
OUTDOOR UNIT				
FAMILY ES 12M/12T	1416	940	340	98
FAMILY ES 15M/15T	1416	940	340	98
FAMILY ES 18T	1416	940	340	98
FAMILY ES 25T	1500	980	370	138

REC10 I CONTROL

Note: the hybrid system control is supplied with the FAMILY ES heat pump.

OVERALL DIMENSIONS



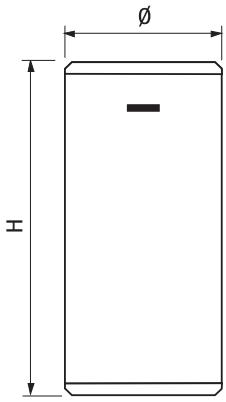
Description	H mm	L mm	P mm	Net weight kg
REC10 I control	90	146	32	0.15

STORAGE TANKS TO BE MATCHED

TECHNICAL DATA

Description	Usable volume l	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7000 ACI 120 PLUS	123	99	6	50	B	**20082450**
7000 ACI 200 PLUS	203	99	6	68	C	**20028093**
7000 ACI 300 PLUS	277	99	6	82	C	**20028094**

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
7000 ACI 120 PLUS	1095	500	35
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55

Dimensions and weight with insulation.

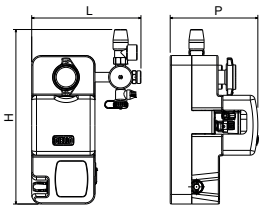
SOLAR HYDRAULIC UNITS TO BE MATCHED

TECHNICAL DATA

Description	Connections and ball valves	Net surface of collectors to be connected* m^2	Notes	Code
RSS R	Return-only	20	(1)	**20116168**

(1) Compatible with PWM and ON/OFF control.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RSS R	364	228	183	4.1

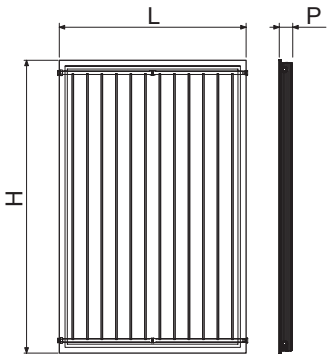
SOLAR COLLECTORS TO BE MATCHED

TECHNICAL DATA

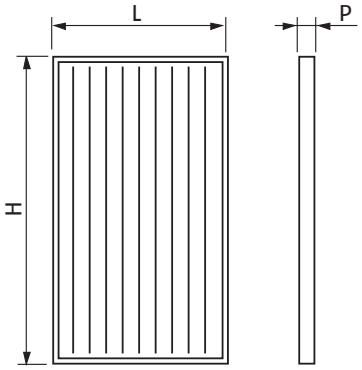
Description	Collector surface		Values referred to the opening area			Stagnation temperature	Notes	Code no.
	Gross m²	Net m²	ηo	a1 W/m²K	a2 W/m²K²	°C		
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2.3	2.14	0.802	4.28	0.0064	200	(1)	**20127137**
CSAL 20 RS	1.91	1.77	0.781	4.98	0.0005	192	(1)	**20094521**
CSV 25 R	2.77	2.69	0.7	1.15	0.011	268	(1)	**20023353**
CSV 35 R	3.91	3.84	0.7	1.15	0.011	268	(1)	**20023416**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 223.

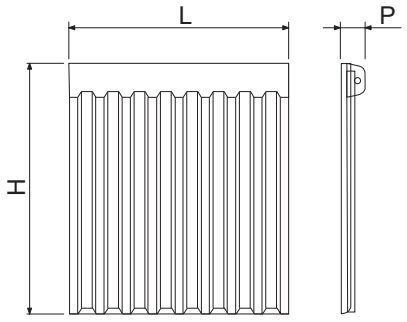
OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44



Description	H mm	L mm	P mm	Net weight kg
CSAL 20 RS	1818	1097	70	30



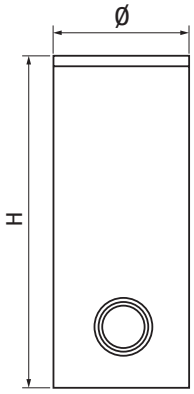
Description	H mm	L mm	P mm	Net weight kg
CSV 25 R	1730	1600	145	52
CSV 35 R	1730	2260	145	74

DHW CYLINDERS TO BE MATCHED

TECHNICAL DATA

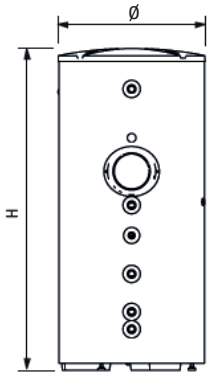
Description	Useful delivered l	Heat pump coil surface area (m²)	Exchange surface area lower coil (m²)	Exchange power upper coil (kW)	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7200 300 HP	263	4.0	-	-	99	10	85	C	**4383500**
7200 500 HP	470	6.0	-	-	99	10	112	C	**4383501**
7200 800 HP	702	7.0	-	-	99	10	130	C	**20136293**
RBC 430 1S	445	-	2	-	99	10	73	B	**20124170**
RBC 550 1S	555	-	2.4	-	99	10	84	B	**20124171**
RBC 800 1S	735	-	2.57	-	99	7	95	B	**20132270**
RBC 1000 1S	890	-	2.92	-	99	7	103	B	**20132271**
RBS 430 2S	430	-	1.4	31.4	99	10	75	B	**20117339**
RBS 550 2S	551	-	1.8	31.4	99	10	68	B	**20116587**
RBS 800 2S	731	-	2.3	50	99	7	94	B	**20132268**
RBS 1000 2S	883	-	2.7	50	99	7	101	B	**20132269**
7200/2-1500 HV PLUS	1390		3.4	47	99	8	162	C	**20136237**
7200/2-2000 HV PLUS	1950		4.6	73	99	8	186	C	**20136239**

OVERALL DIMENSIONS



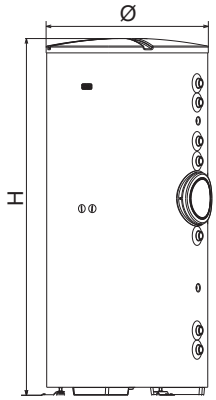
Description	H mm	Ø mm	S (*) mm	Net weight kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	217

(*) Insulation thickness.
Dimensions and weight with insulation.



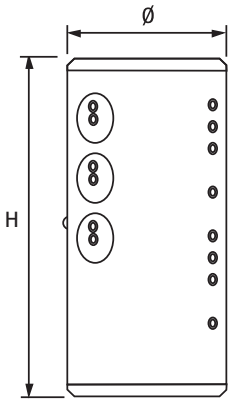
Description	H mm	Ø mm	S (*) mm	Net weight kg
RBC 430 1S	1644	755	52	131
RBC 550 1S	1988	755	52	157
RBC 800 1S	1835	974	92	203
RBC 1000 1S	2155	974	92	225

(*) Insulation thickness.
Dimensions and weight with insulation.



Description	H mm	Ø mm	S (*) mm	Net weight kg
RBS 430 2S	1644	755	50	146
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

(*) Insulation thickness.
Dimensions and weight with insulation.



Description	H mm	Ø mm	S (*) mm	Net weight kg
7200/2-1500 HV PLUS	2185	1200	100	324
7200/2-2000 HV PLUS	2470	1300	100	544

(*) Insulation thickness.
Dimensions and weight with insulation.

SYSTEM CONFIGURATION GUIDE

1. BOILER-HEAT PUMP COMBINATIONS

2. WALL-HUNG BOILER ACCESSORIES
- 2.1 Accessories to complete the system
- 2.2 Shunt pumps (only for 90-115 kW)
- 2.3 Additional safety devices
- 2.4 Hydraulic separator
- 2.5 Sealed combustion conversion kit (type C)
- 2.6 Flue systems
- 2.7 Treatment systems for condensate neutralization

3. ACCESSORIES TO COMPLETE THE SYSTEM
- 3.1 Hydraulic accessories
- 3.2 Secondary circuit management
- 3.3 DHW cylinder accessories
- 3.4 Solar circuit management

4. HI, COMFORT CONTROLS

1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

Description	Code	FAMILY ES 12M	FAMILY ES 15M	FAMILY ES 12T	FAMILY ES 15T	FAMILY ES 18T	FAMILY ES 25T
		20181797	20181805	20181803	20181806	20181807	20181809
CONDEXA PRO 57 P	(1)	●	●	●	●	●	●
CONDEXA PRO 70 P	(1)		●		●	●	●
CONDEXA PRO 90	(1)					●	●
CONDEXA PRO 100	(1)						●
CONDEXA PRO 115	(1)						●

(*) To satisfy the Italian regulation about the hybrid systems. For the extra-IT markets, all the boiler-HP combinations are available.
(1) Refer to the section WALL-HUNG BOILERS - TECHNICAL DATA to choose the proper boiler code.

2. WALL-HUNG BOILER ACCESSORIES

2.1 Accessories to complete the system

Description	Code
Condensate drain kit for stand alone boiler	**20133102**

2.2 Shunt pumps (only for 90-115 kW models)

Description	Notes	Code
Shunt pump kit (90-115 KW)	(1)	**20125034**

(1) For CONDEXA PRO 57-70 P models the pump is installed present in the boiler.

2.3 Additional safety devices

Description	Notes	Code
Manifold kit with INAIL safety devices for stand alone boiler	(1)	**20131898**
Shut-off cock		**20190221**
Manifold kit with safety devices for stand alone boiler	(2)(3)	**20189780**
Safety valve 5.4 bar ØG.¾'' FF		**20143981**
Kit with connection pipe to hydraulic separator for stand alone boiler		**20131899**

(1) Includes all the safety devices, including safety valve and VIC.
(2) Includes pressure gauge, thermometer and 3 bar safety valve (¾ "FF). Coupled with the under boiler cover kits (20133224) it allows the display of temperature and pressure values
(3) If an operating pressure> 3 bar is required, it can be combined with the safety valve code 20143981.

2.4 Hydraulic separator

Description	Code
Horizontal hydraulic separator kit for stand alone boiler	**20131897**
Frame kit for front cascades	**20131663**
Cover for safety kit/hydraulic separator unit for stand alone boiler	**20133224**

2.5 Sealed combustion conversion kit (type C)

Description	Code
Conversion kit C type (57-70 kW)	**20131665**
Conversion kit C type (90-135 kW)	**20131668**

2.6 Flue systems

Description	Notes	Code
Spacer kit for fixing to wall	(1)	**20131270**

(1) Kit required for rear wall concentric discharge.
Note: for each type, check the maximum equivalent lengths by consulting the technical data sheet and/or by contacting the pre-sales service.
Note: for matching flue accessories, please refer to the 2021 Product Catalogue under the section CENTRALISED HEATING, FLUE GAS EXHAUST SYSTEMS.

2.7 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	**4031811**
Condensate neutralizer N2 (up to 450 kW)		**4031810**

(1) Equipped with extraction pumps.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

Description	Code
1" Y water filter	**20175281**
7000 ACI 120 PLUS	**20082450**
7000 ACI 200 PLUS	**20028093**
7000 ACI 300 PLUS	**20028094**

3.2 Secondary circuit management

Description	Notes	Code
1" DHW diverting valve with DHW cylinder probe	(1)	**20175064**
Immersion probe	(2)	**1220599**
1st direct/mixed zone management		**20132795**
2nd/3rd direct/mixed zone management		**20132796**

(1) For FAMILY ES 18T and 25T models, carefully check the system and DHW circuit for pressure drops.
(2) Used for secondary circuit and DHW cylinder management.
Note: for room temperature control refer to the section SYSTEM COMPLEMENTARY ITEMS - THERMOSTATS AND CHRONOTHERMOSTATS.

3.3 DHW cylinder accessories

Description	Notes	Code
Electronic anode equipped with plug	(1)	**20055206**
Thermometer kit	(1)	**20123850**
Curve kit for electronic anode	(1)	**20123851**
Solar heat exchanger 0.8 m² for HP 300	(2)	**4383504**
Solar heat exchanger 1.2 m² for HP 500 and HP 800	(3)	**4383505**

(1) RBC 1S and RBS 2S series DHW cylinder accessories.
(2) 7200 HP 300 DHW cylinder accessories.
(3) 7200 HP 500 and 7200 HP 800 DHW cylinder accessories.

3.4 Solar circuit management

Description	Notes	Code
RSS R solar hydraulic unit	(1)(2)(3)	**20116168**
Solar interface kit	(4)	**20131756**

(1) The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.
(2) Net area of connectable collectors: 20 m².
(3) Connections and ball valves on the return line.
(4) It allows viewing the operating status of the solar system on the REC10 I system interface.
Note: in case of installation of collectors with a net surface area >20 m², please refer to the section SOLAR THERMAL AND CYLINDER - COMPLEMENTARY ITEMS - PUMP STATIONS AND DIFFERENTIAL CONTROLLERS.
Note: for the selection of solar panel accessories, please refer to the section SOLAR THERMAL AND CYLINDER - SOLAR COLLECTORS.

4. Hi, COMFORT CONTROLS

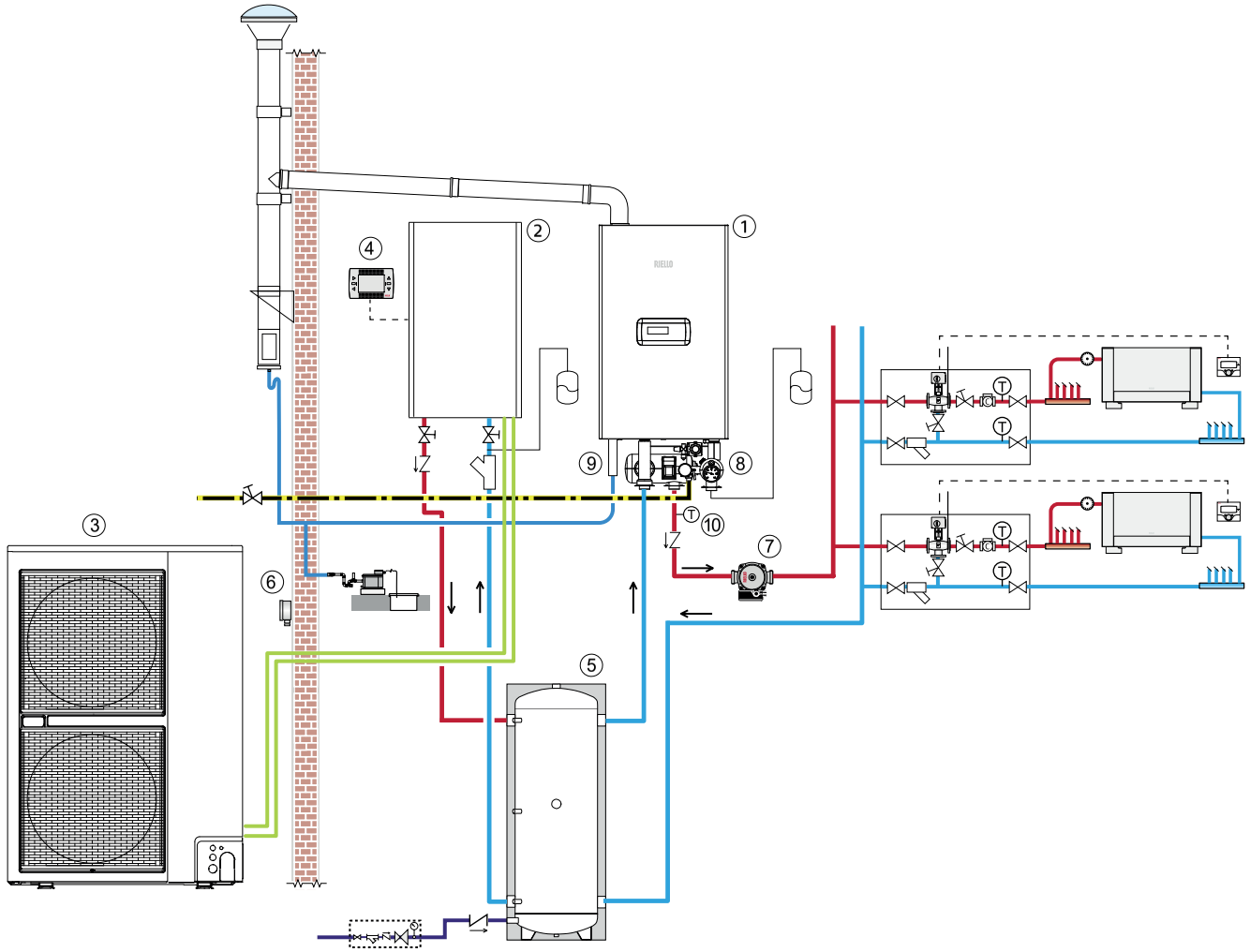
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

EXAMPLES OF INSTALLATION WITH Hybrid PRO wall-hung system

BIVALENT HEATING SYSTEM WITH HEAT PUMP AND BOILER



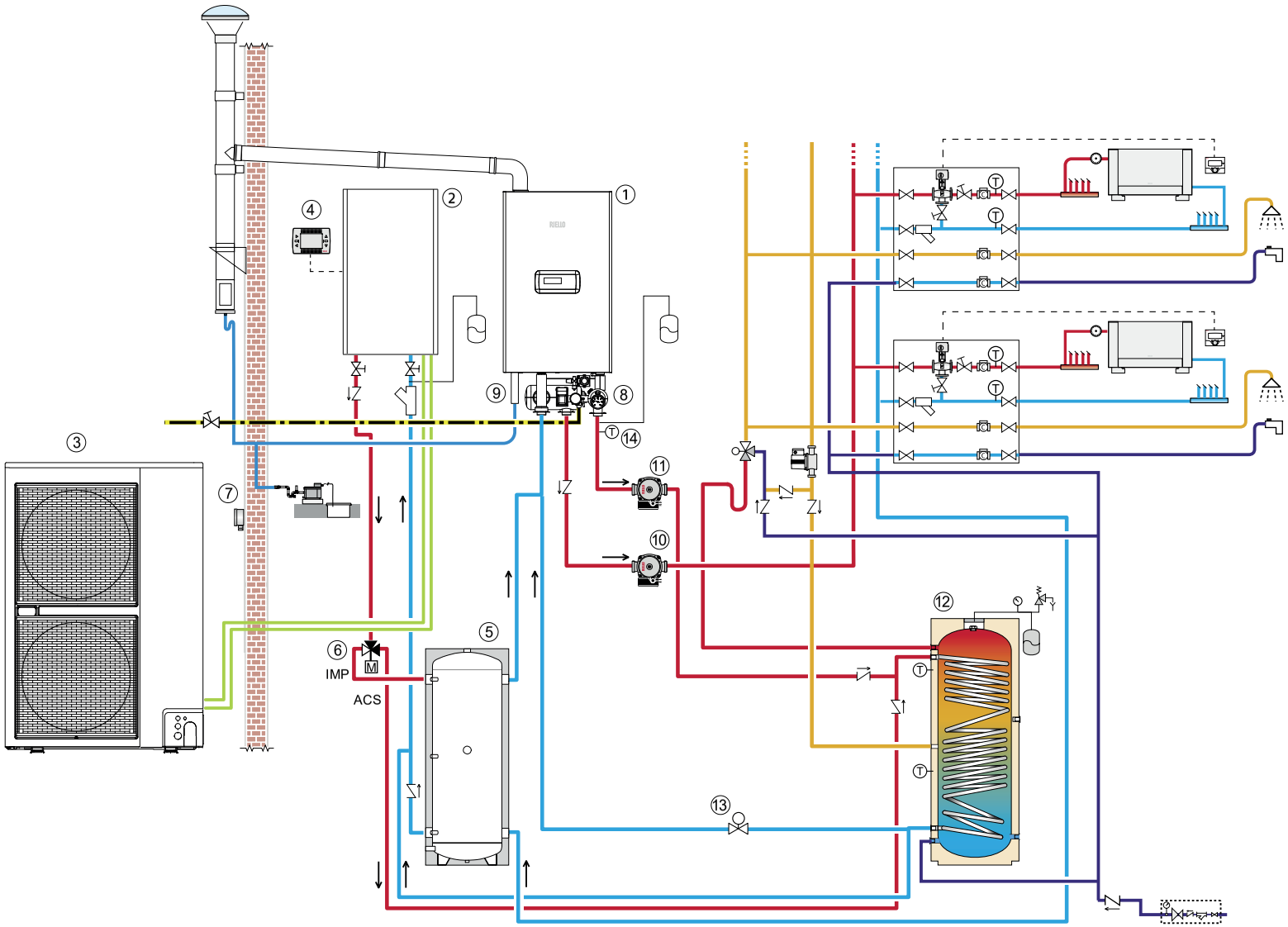
1 CONDEXA PRO condensing boiler
2 FAMILY ES heat pump indoor unit
3 FAMILY ES heat pump outdoor unit
4 REC10 I control panel (supplied with the heat pump)
5 Storage tank
6 External probe for climatic heat control (supplied with the heat pump)
7 System circulation pump
8 Manifold kit with safety devices for stand alone boiler
9 Condensate drain
10 Immersion probe

MANDATORY ACCESSORIES

Ref. Layout	Code	Description	Notes	CONDEXA PRO 57 P - 70 P	CONDEXA PRO 90-115
WALL-HUNG BOILER					
1	-	CONDEXA PRO	(1)	●	●
1	**20125034**	Shunt pump kit (90-115 kW)	(*)		●
8	**20131897**	Horizontal hydraulic separator kit for stand alone boiler		●	●
8/1	**20131899**	Kit with connection pipe to hydraulic separator for stand alone boiler	(5)	●	●
	20143981	Safety valve 5.4 bar ØG.¾'' FF		●	●
8/2	**20131898**	Manifold kit with INAIL safety devices for stand alone boiler		●	●
8/3	**20189780**	Manifold kit with safety devices for stand alone boiler		●	●
9	**20133102**	Condensate drain kit for stand alone boiler	(*)	●	●
HEAT PUMP					
2	-	FAMILY ES indoor unit	(1)	●	●
3	-	FAMILY ES outdoor unit	(1)	●	●
SYSTEM COMPLETION					
4	-	REC10 I control panel	(2)	●	●
5	-	7000 ACI PLUS storage tank	(3)	●	●
6	-	External probe for climatic heat control	(2)	●	●
7	-	System circulation pump	(4)	●	●
10	**1220599**	Immersion probe		●	●

(1) Check the combinations indicated in section "1. BOILER-HEAT PUMP COMBINATION".
(2) Supplied with the FAMILY ES heat pump.
(3) The 7000 ACI 120 PLUS storage tank (code 20082450) ensures the minimum water content necessary for the correct operation of all the heat pump models proposed.
(4) Refer to the SYSTEM COMPLEMENTARY ITEMS - WATER CIRCULATORS section.
(5) Possible hydraulic separator connection.
(*) Accessories to be installed inside the boiler.

BIVALENT HEATING AND COMBINED DHW PRODUCTION SYSTEM WITH HEAT PUMP, BOILER AND SINGLE COIL CYLINDER



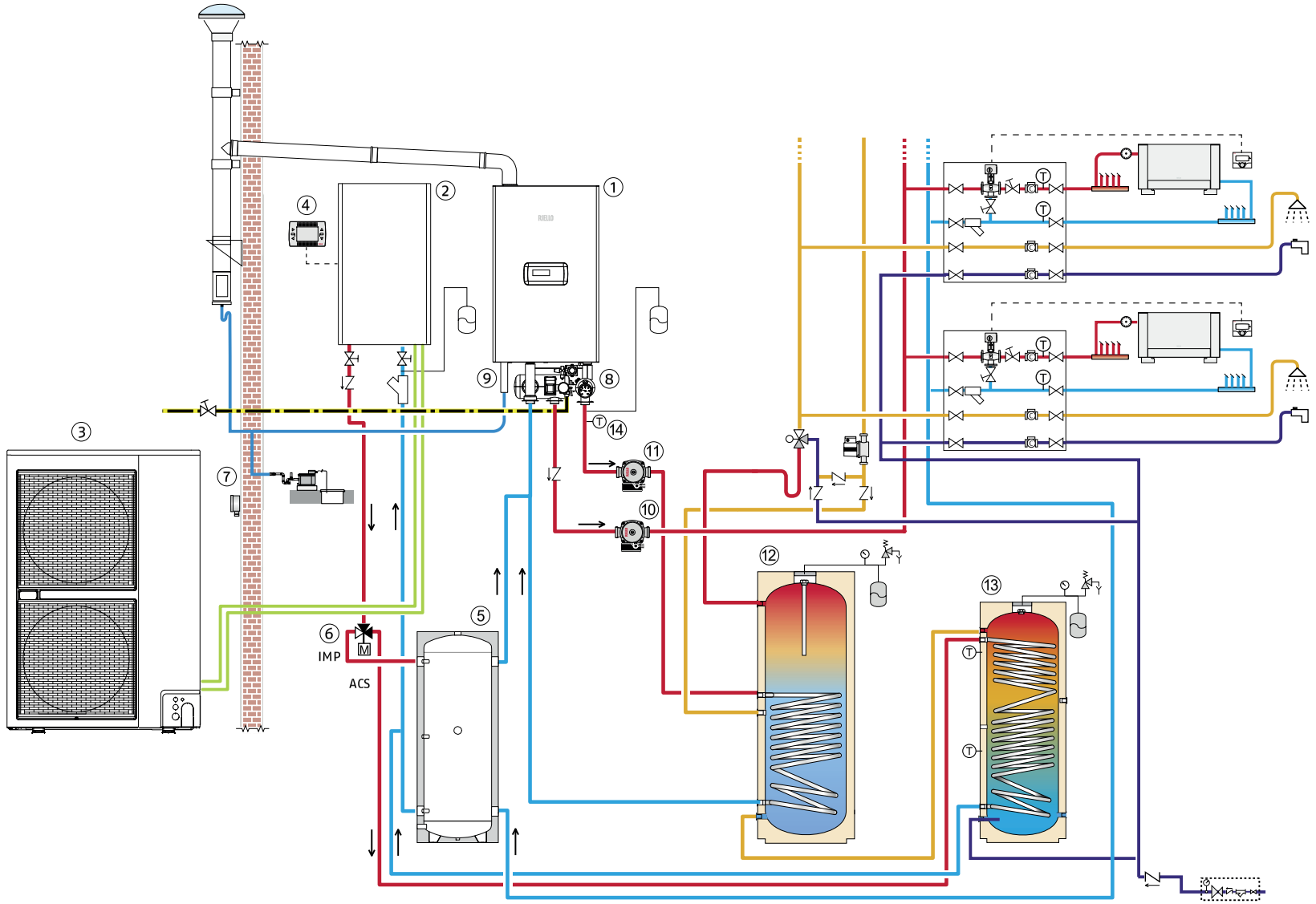
1 CONDEXA PRO condensing boiler
2 FAMILY ES heat pump indoor unit
3 FAMILY ES heat pump outdoor unit
4 REC10 I control panel (supplied with the heat pump)
5 Storage tank
6 DHW diverting valve
7 External probe for climatic heat control (supplied with the heat pump)
8 Manifold kit with safety devices for stand alone boiler
9 Condensate drain
10 System circulation pump
11 Cylinder loading pump
12 DHW cylinder
13 2-way motor-driven valve
14 Immersion probe

MANDATORY ACCESSORIES

Ref. Layout	Code	Description	Notes	CONDEXA PRO 57 P - 70 P	CONDEXA PRO 90-115
WALL-HUNG BOILER					
1	-	CONDEXA PRO	(1)	●	●
1	**20125034**	Shunt pump kit (90-115 kW)	(*)		●
8	**20131897**	Horizontal hydraulic separator kit for stand alone boiler		●	●
8/1	**20131899**	Kit with connection pipe to hydraulic separator for stand alone boiler	(6)	●	●
	20143981	Safety valve 5.4 bar ØG.¾'' FF		●	●
8/2	**20131898**	Manifold kit with INAIL safety devices for stand alone boiler		●	●
8/3	**20189780**	Manifold kit with safety devices for stand alone boiler		●	●
9	**20133102**	Condensate drain kit for stand alone boiler	(*)	●	●
HEAT PUMP					
2	-	FAMILY ES indoor unit	(1)	●	●
3	-	FAMILY ES outdoor unit	(1)	●	●
SYSTEM COMPLETION					
4	-	REC10 I control panel (supplied with the heat pump)	(2)	●	●
5	-	7000 ACI PLUS storage tank	(3)	●	●
6	**20175064**	1" DHW diverting valve with cylinder probe		●	●
7	-	External probe for climatic heat control (supplied with the heat pump)	(2)	●	●
10	-	System circulation pump	(4)	●	●
11	-	Cylinder loading pump	(4)	●	●
12	-	DHW cylinder	(5)	●	●
13	-	2-way motor-driven valve with limit microswitch	(7)	●	●
14	**1220599**	Immersion probe		●	●

(1) Check the combinations indicated in section "1. BOILER-HEAT PUMP COMBINATION".
(2) Supplied with the FAMILY ES heat pump.
(3) The 7000 ACI 120 PLUS storage tank (code 20082450) ensures the minimum water content necessary for the correct operation of all the heat pump models proposed.
(4) Refer to the SYSTEM COMPLEMENTARY ITEMS - WATER CIRCULATORS section.
(5) Refer to "TECHNICAL DATA".
(6) Possible hydraulic separator connection.
(7) Responsability of the installer.
(*) Accessories to be installed inside the boiler.

BIVALENT HEATING AND COMBINED DHW PRODUCTION SYSTEM WITH HEAT PUMP, BOILER AND SINGLE COIL CYLINDER



1 CONDEXA PRO condensing boiler
2 FAMILY ES heat pump indoor unit
3 FAMILY ES heat pump outdoor unit
4 REC10 I control panel (supplied with the heat pump)
5 Storage tank
6 DHW diverting valve
7 External probe for climatic heat control (supplied with the heat pump)
8 Manifold kit with safety devices for stand alone boiler
9 Condensate drain
10 System circulation pump
11 Cylinder loading pump
12 DHW primary cylinder
13 DHW secondary cylinder
14 Immersion probe

MANDATORY ACCESSORIES

Ref. Layout 1	Code	Description	Notes	CONDEXA PRO 57 P - 70 P	CONDEXA PRO 90-115
WALL-HUNG BOILER					
1	-	CONDEXA PRO	(1)	●	●
1	**20125034**	Shunt pump kit (90-115 kW)	(*)		●
8	**20131897**	Horizontal hydraulic separator kit for stand alone boiler		●	●
8/1	**20131899**	Kit with connection pipe to hydraulic separator for stand alone boiler	(6)	●	●
	20143981	Safety valve 5.4 bar ØG.¾'' FF		●	●
8/2	**20131898**	Manifold kit with INAIL safety devices for stand alone boiler		●	●
8/3	**20189780**	Manifold kit with safety devices for stand alone boiler		●	●
9	**20133102**	Condensate drain kit for stand alone boiler	(*)	●	●
HEAT PUMP					
2	-	FAMILY ES indoor unit	(1)	●	●
3	-	FAMILY ES outdoor unit	(1)	●	●
SYSTEM COMPLETION					
4	-	REC10 I control panel (supplied with the heat pump)	(2)	●	●
5	-	7000 ACI PLUS storage tank	(3)	●	●
6	**20175064**	1" DHW diverting valve with cylinder probe		●	●
7	-	External probe for climatic heat control (supplied with the heat pump)	(2)	●	●
10	-	System circulation pump	(4)	●	●
11	-	Cylinder loading pump	(4)	●	●
12	-	DHW primary cylinder	(5)	●	●
13	-	DHW secondary cylinder	(5)	●	●
14	**1220599**	Immersion probe		●	●

(1) Check the combinations indicated in section "1. BOILER-HEAT PUMP COMBINATION".
(2) Supplied with the FAMILY ES heat pump.
(3) The 7000 ACI 120 PLUS storage tank (code 20082450) guarantees the minimum water content necessary for the correct operation of the heat pump.
(4) Refer to the SYSTEM COMPLEMENTARY ITEMS - WATER CIRCULATORS section.
(5) Refer to "TECHNICAL DATA".
(6) Possible hydraulic separator connection.
(*) Accessories to be installed inside the boiler.

Hybrid systems-Floor-standing solution

RES floor-standing split hybrid system

NEW

ERP

- Heating, cooling and domestic hot water production
- Intelligent management of several energy sources: condensing boiler and heat pump
- Possibility to control up to 3 indoor zones

A floor-standing hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating-only boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with high-efficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- The heat pump: floor-standing split air-water type of the Domus ES series, available in versions ranging from 5 to 15 kW, with floor-standing indoor unit for heating, cooling and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The indoor unit houses the main components of the hydronic system, including a 200l buffer tank with large-surface stainless steel coil for instantaneous production of domestic hot water.
- The hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEI≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.
- Simple and intuitive control panel with large backlit display, characterised by advanced management logics of the hybrid system, in order to guarantee maximum efficiency by giving priority to the most efficient heat source according to the outside temperature. The panel allows the full parametrisation of the system, as well as displaying the operating status. It is supplied with heat pump, complete with bracket, to be positioned directly inside the rooms.

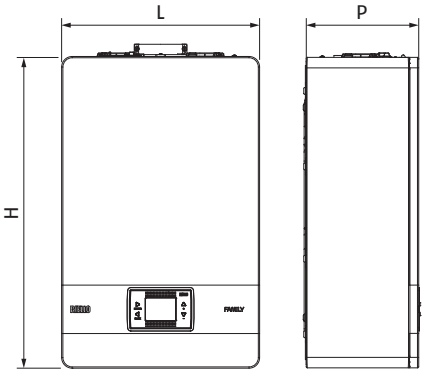
WALL-HUNG BOILERS

TECHNICAL DATA

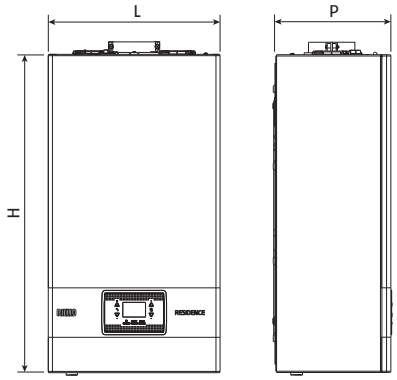
Description	Heat output Heating/Domestic Water min-max kW	Working efficiency		Domestic water production ΔT 25° l/min	Energy efficiency class		Notes	Code
		Nominal output (50°/30°C) %	30% of nominal output (ret. 30 °C) %					
HEATING-ONLY VERSION								
FAMILY 25 IS	3.6-20.0/3.6-25.0	106.6	109.1	/	A	-	(1)	**20187643**
FAMILY 35 IS	4.9-32.0/4.9-34.6	107.5	109.5	/	A	-	(1)	**20187646**
RESIDENCE 20 IS	3.6-20.0/3.6-20.0	106.2	108.4	-	A	-	(1)(2)	**20139526**
RESIDENCE 35 IS	4.9-30.0/4.9-34.6	106.9	108.2	-	A	-	(1)(2)	**20139528**
RESIDENCE IN HYBRID 25 IS	3.1-20.0/3.1-25.0	105	110	-	A	-	(3)	**20135128**
BUILT-IN UNIT								
IN-WALL INSTALLATION BOX							(4)	**20082310**

(1) The external probe is not included in the boiler supply, but is available as accessory with code 1220559.
(2) A wall-hung hybrid system requires the replacement of boiler display with code 20193921.
(3) The boiler code includes hybrid system control panel and external probe.
(4) To be used for Family 25 KIS, Residence 25 KIS and Residence In Hybrid.

OVERALL DIMENSIONS

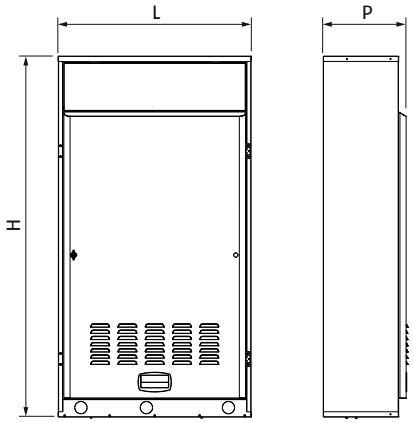


Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

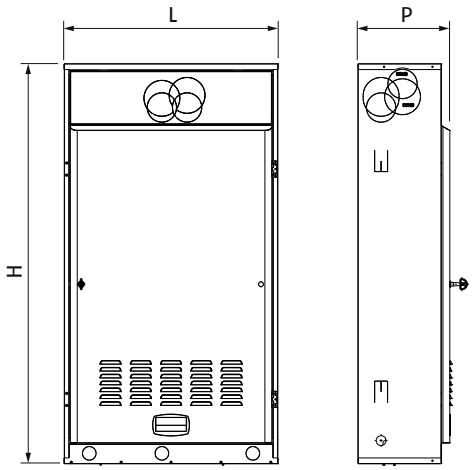


Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Height including SRD device: 822 mm



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE IN HYBRID 25 IS	785	553	268	40



Description	H mm	L mm	P mm	Net weight kg
IN-WALL INSTALLATION BOX	1223	654	281	21

HEAT PUMPS

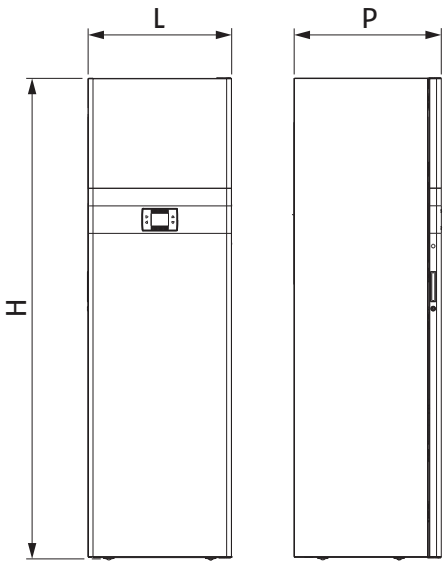
TECHNICAL DATA

Description	Heating				Cooling				Electrical power supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR AND OUTDOOR UNITS												
DOMUS ES 5M	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	230/1/50	A++	A /L	**20155360**
DOMUS ES 7M	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	230/1/50	A++	A /L	**20155362**
DOMUS ES 9M	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	230/1/50	A+++	A /L	**20155363**
DOMUS ES 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A /XL	**20155364**
DOMUS ES 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A /XL	**20155366**
DOMUS ES 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A /XL	**20155365**
DOMUS ES 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A /XL	**20155368**

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
(2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
(3) External air temperature 35°C; water inlet/outlet 23/18°C
(4) External air temperature 35°C; water inlet/outlet 12/7°C
(5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
(6) Tank set temperature 53°C. Values compliant with standard EN 16147.

OVERALL DIMENSIONS

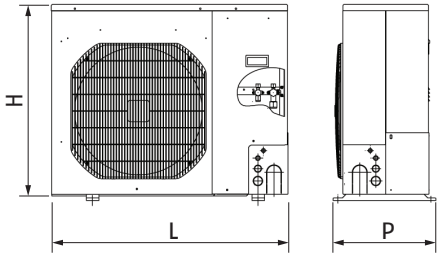
INDOOR UNIT



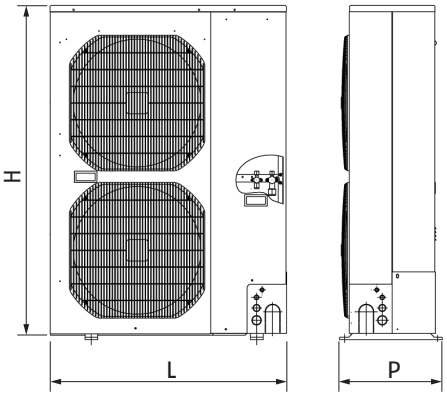
Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
DOMUS ES 5-7-9-12-15M **DOMUS ES 12-15T**	2000	600	600	179
OUTDOOR UNIT				
DOMUS ES 5M	619	799	299	39
DOMUS ES 7M	619	799	299	40
DOMUS ES 9M	996	940	340	69
DOMUS ES 12M	1416	940	340	98
DOMUS ES 15M	1416	940	340	98
DOMUS ES 12T	1416	940	340	98
DOMUS ES 15T	1416	940	340	98

OUTDOOR UNIT

MODELS 5M-7M-9M



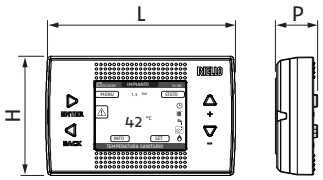
MODELS 12M-15M-12T-15T



REC10 I CONTROL

Note: the hybrid system management control is supplied with DOMUS ES heat pump.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
REC10 I control	90	146	32	0.15

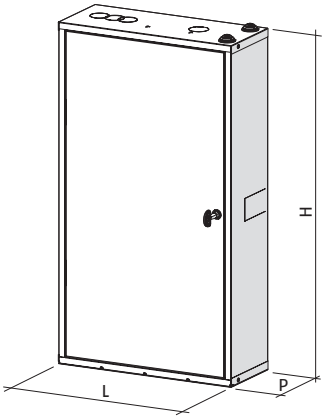
COMBINABLE HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITH SEPARATOR					
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	**20130807**
IN-WALL INSTALLATION BOX	-	-	-	(4)	**20130808**

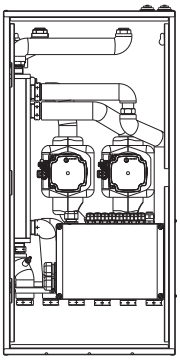
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
(5) Supplied without in-wall installation box.

OVERALL DIMENSIONS

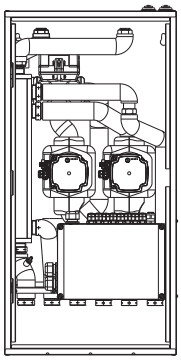


Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

BAG³ HYBRID 2D



BAG³ HYBRID 1D+1M

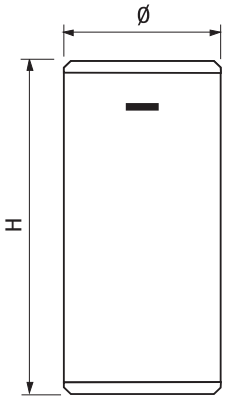


INERTIAL STORAGE TANKS TO BE MATCHED

TECHNICAL DATA

Description	Volume delivered l	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7000 ACI 60 PLUS	57	99	6	34	B	**20090056**
7000 ACI 120 PLUS	123	99	6	50	B	**20082450**

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35

Dimensions and weight with insulation.

GUIDE TO SYSTEM CONFIGURATION

1. BOILER-HEAT PUMP COMBINATIONS
2. WALL-HUNG BOILER ACCESSORIES
3. ACCESSORIES TO COMPLETE THE SYSTEM
   - 3.1 Hydraulic accessories
   - 3.2 Secondary circuit management
   - 3.3 Hybrid distribution module accessories
4. HI, COMFORT CONTROLS

1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

Description	Code	Built-in unit	Possible heat pump combinations							Hydraulic distribution	
		IN-WALL INSTALLATION BOX	DOMUS ES 5M	DOMUS ES 7M	DOMUS ES 9M	DOMUS ES 12M	DOMUS ES 15M	DOMUS ES 12T	DOMUS ES 15T	BAG³ HYBRID 2D	BAG³ HYBRID 1D+1M
		20161604	20155360	20155362	20155363	20155364	20155366	20155365	20155368	20130806	20130807
HEATING-ONLY VERSION											
FAMILY 25 IS	**20187643**		●	●	●					●	●
FAMILY 35 IS	**20187646**		●	●	●	●	●	●	●	●	●
RESIDENCE 20 IS	**20139526**		●	●	●					●	●
RESIDENCE 35 IS	**20139528**		●	●	●	●	●	●	●	●	●
RESIDENCE IN HYBRID 25 IS	**20135128**	●	●	●	●					●	●

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.

2. WALL-HUNG BOILER ACCESSORIES

Description	Notes	Code
FAMILY BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	**20129174**
90° bend kit Ø60/100 mm for boiler start	(2)	**20129172**
Condensate booster pump kit		**20097192**
Well probe for remote heater (for heating only version)		**1220599**
Compact magnetic water filter		**20191517**
Compact polyphosphate dispenser		**20191518**
Double relay kit (second pump/lockout signal)		**20062614**
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Fixed split system kit Ø80 mm		**20129765**
Wall-hung collector Ø60/100 mm		**20129175**
Telescopic wall-hung collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Split kit B23 Ø80 mm for in-wall installation box		**20129768**
Adapter kit B23 Ø80 mm		**20129769**
External probe kit		**1220559**
Anti-freeze resistance kit for heating-only versions		**20193279**
RESIDENCE BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	**20129174**
90° bend kit Ø60/100 mm for boiler start	(2)	**20129172**
Connection kit with heating system and gas cocks (for IS models)		**20133517**
Connection kit with gas cock (for IS models)		**20133386**
High head circulator kit		**20105883**
Condensate booster pump kit		**20097192**
Well probe for remote heater (for heating only version)		**1220599**
Magnetic filter kit		**20178780**
Polyphosphate dispenser kit		**20178781**
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Fixed split system kit Ø80 mm		**20129765**
Wall-hung collector Ø60/100 mm		**20129175**
Telescopic wall-hung collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Split kit B23 Ø80 mm for in-wall installation box		**20129768**
Adapter kit B23 Ø80 mm		**20129769**
External probe kit		**1220559**

Description	Notes	Code
Anti-freeze resistance kit for heating-only versions		**20145305**
RESIDENCE IN HYBRID BOILERS		
Door kit for recessed installation	(3)	**4047250**
Heating system cock kit		**4047252**
Wall-hung connection kit		**4047255**
External probe		**1220559**
Anti-freeze resistance kit for IS versions		**20164828**
Condensate booster pump kit		**20097192**
Remote heater well probe (for pairing with IS version)		**1220599**
Clapet kit		**20162838**

(1) Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.
(2) Code required in case of horizontal discharge with flue system 60/100. Accessory already included in kits 20129175 and 20129176.
(3) For retrofit on old boxes without door.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

Description	Notes	Code
Cock kit	(1)	**20155924**
50 litre inertial buffer tank	(2)	**20171999**
2-4-6 kW single-phase heating element kit	(3)	**20155831**
2-4-6 kW three-phase heating element kit	(3)	**20157335**
S hydraulic separator kit (includes secondary circulator)	(4)	**20155826**
L hydraulic separator kit (includes secondary circulator)	(5)	**20155827**
Average temperature circulator kit (towel warmers)		**20155834**
REC10CH locking kit and wall bracket		**20161942**

All accessories are supplied separately as kits and must be installed on site.
(1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks, system and design radiators, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
(2) Inertial storage cannot be installed horizontally below the heat pump.
(3) The power supplied by the heating element depends on the type of wiring performed during installation
(4) Accessory that can be combined with Domus ES 5, 7 and 9 models. This accessory must be installed in the unit before connecting it to the system.
(5) Accessory that can be combined with Domus ES 12, 15 models. This accessory must be installed in the unit before connecting it to the system.

3.2 Secondary circuit management

Description	Notes	Code
1" DHW diverting valve with heater probe		**20175064**
Immersion probe	(1)	**1220599**
1st direct/mixed area control		**20132795**
Control of 2nd and 3rd direct/mixed zone		**20132796**

(1) Used for secondary circuit and heater management.
Note: for ambient temperature adjustment, refer to section SYSTEM ACCESSORIES - THERMOSTATS AND PROGRAMMABLE THERMOSTATS

3.3 Hybrid distribution module accessories

Description	Code
Cock kit on system and heat pump side	**20131752**

4. Hi, COMFORT CONTROLS

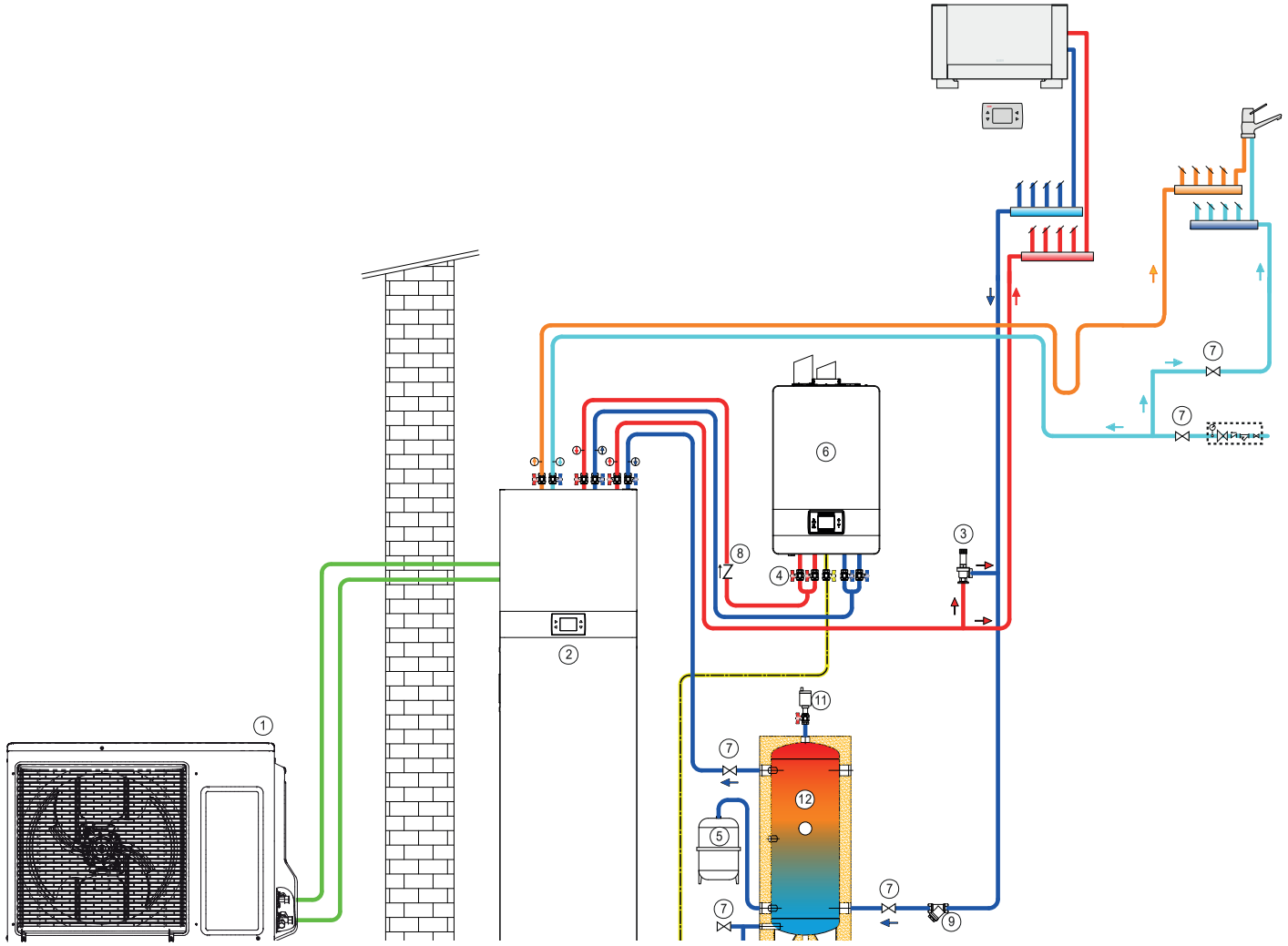
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

EXAMPLES OF SYSTEM WITH SPLIT HYBRID SYSTEM

ONE-ZONE HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP AND BOILER



15 Heat pump outdoor unit (PdC)
16 PdC indoor unit with circulator, expansion reservoir and DHW storage
17 Adjustable bypass valve
18 Under-boiler cock kit
19 Expansion reservoir
20 Boiler with circulator and reservoir
21 Shut-off valve
22 Non-return valve
23 Filter
24 Safety valve
25 Deaerator
26 Storage tank

Hybrid systems-Floor-standing solution

Solar RES floor-standing split hybrid system

NEW

ERP

- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Possibility to control up to 3 indoor zones

A floor-standing hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating-only boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with high-efficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- The heat pump: floor-standing split air-water type of the Domus ES Solar series, available in versions ranging from 5 to 15 kW, with floor-standing indoor unit for heating, cooling and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The indoor unit houses the main components of the hydronic system, including a 200l buffer tank with large-surface stainless steel coil for instantaneous production of domestic hot water.
- The hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEI≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.
- Simple and intuitive control panel with large backlit display, characterised by advanced management logics of the hybrid system, in order to guarantee maximum efficiency by giving priority to the most efficient heat source according to the outside temperature. The panel allows the full parametrisation of the system, as well as displaying the operating status. It is supplied with heat pump, complete with bracket, to be positioned directly inside the rooms.

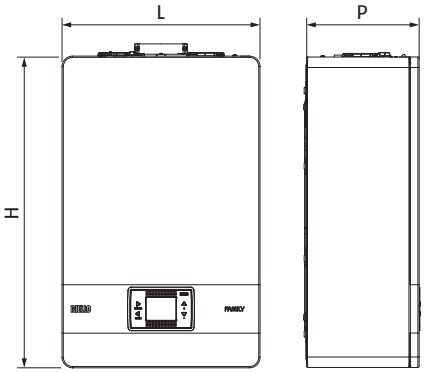
WALL-HUNG BOILERS

TECHNICAL DATA

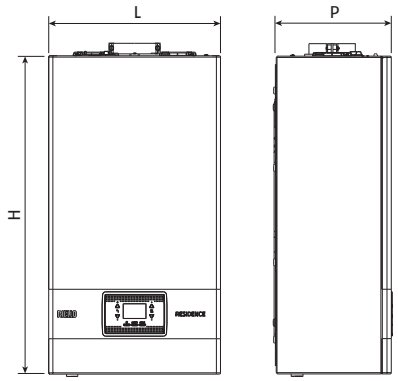
Description	Heat output Heating/Domestic Water min-max kW	Working efficiency		Domestic water production ΔT 25° l/min	Energy efficiency class		Notes	Code
		Nominal output (50°/30°C) %	30% of nominal output (ret. 30 °C) %					
HEATING-ONLY VERSION								
FAMILY 25 IS	3.6-20.0/3.6-25.0	106.6	109.1	/	A	-	(1)	**20187643**
FAMILY 35 IS	4.9-32.0/4.9-34.6	107.5	109.5	/	A	-	(1)	**20187646**
RESIDENCE 20 IS	3.6-20.0/3.6-20.0	106.2	108.4	-	A	-	(1)(2)	**20139526**
RESIDENCE 35 IS	4.9-30.0/4.9-34.6	106.9	108.2	-	A	-	(1)(2)	**20139528**
RESIDENCE IN HYBRID 25 IS	3.1-20.0/3.1-25.0	105	110	-	A	-	(3)	**20135128**
BUILT-IN UNIT								
IN-WALL INSTALLATION BOX							(4)	**20082310**

(1) The external probe is not included in the boiler supply, but is available as accessory with code 1220559.
(2) A wall-hung hybrid system requires the replacement of boiler display with code 20193921.
(3) The boiler code includes hybrid system control panel and external probe.
(4) To be used for Family 25 KIS, Residence 25 KIS and Residence In Hybrid.

OVERALL DIMENSIONS

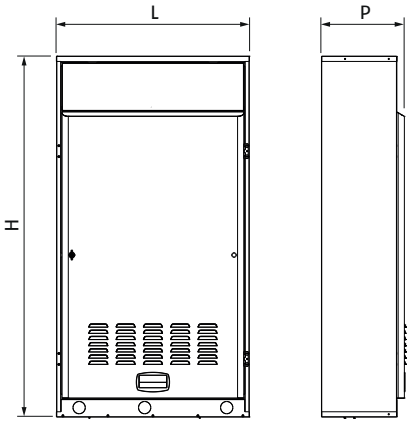


Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

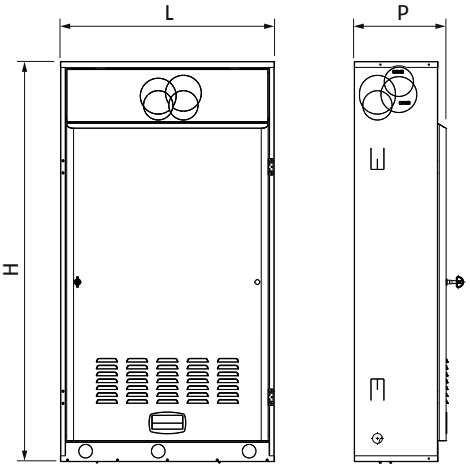


Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Height including SRD device: 822 mm



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE IN HYBRID 25 IS	785	553	268	40



Description	H mm	L mm	P mm	Net weight kg
IN-WALL INSTALLATION BOX M	1223	654	281	21
IN-WALL INSTALLATION BOX S	1223	654	255	18

HEAT PUMPS

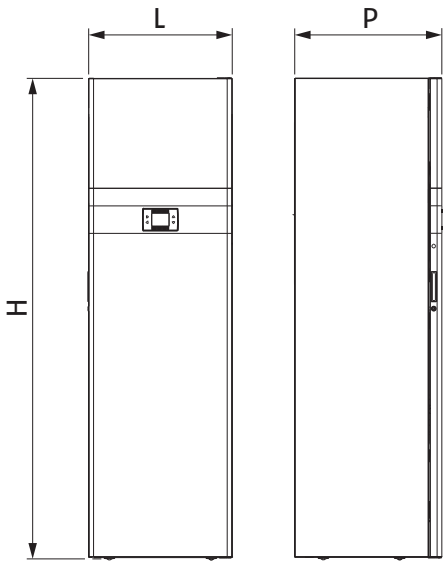
TECHNICAL DATA

Description	Heating				Cooling				Electrical power supply V/Ph/Hz	Energy efficiency class		Notes	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)						
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)		
THE CODES BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR AND OUTDOOR UNITS													
DOMUS ES SOLAR 5M	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	230/1/50	A++	A /L	(D)	**20155373**
DOMUS ES SOLAR 7M	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	230/1/50	A++	A /L	(D)	**20155375**
DOMUS ES SOLAR 9M	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	230/1/50	A+++	A /L	(D)	**20155376**
DOMUS ES SOLAR 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A /XL	(D)	**20155377**
DOMUS ES SOLAR 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A /XL	(D)	**20155382**
DOMUS ES SOLAR 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A /XL	(D)	**20155380**
DOMUS ES SOLAR 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A /XL	(D)	**20155385**

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
(2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
(3) External air temperature 35°C; water inlet/outlet 23/18°C
(4) External air temperature 35°C; water inlet/outlet 12/7°C
(5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
(6) Tank set temperature 53°C. Values compliant with standard EN 16147
(D) Availability of the material at our warehouse: 15 working days from the order validation date.

OVERALL DIMENSIONS

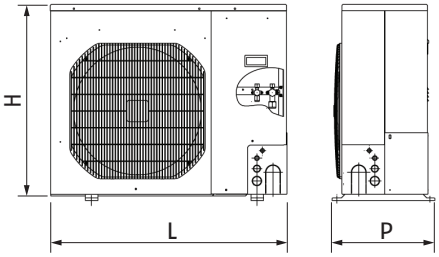
INDOOR UNIT



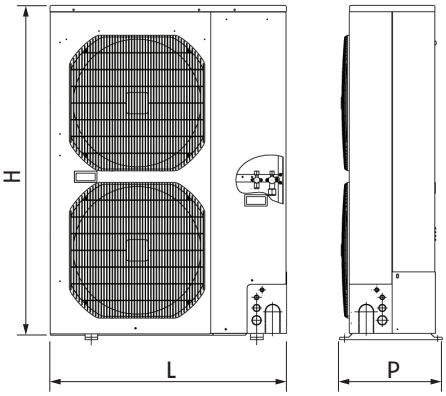
Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
DOMUS ES SOLAR 5-7-9-12-15M **DOMUS ES SOLAR 12-15T**	2000	600	600	179
OUTDOOR UNIT				
DOMUS ES SOLAR 5M	619	799	299	39
DOMUS ES SOLAR 7M	619	799	299	40
DOMUS ES SOLAR 9M	996	940	340	69
DOMUS ES SOLAR 12M	1416	940	340	98
DOMUS ES SOLAR 15M	1416	940	340	98
DOMUS ES SOLAR 12T	1416	940	340	98
DOMUS ES SOLAR 15T	1416	940	340	98

OUTDOOR UNIT

MODELS 5M-7M-9M



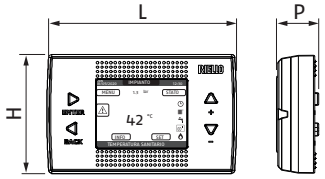
MODELS 12M-15M-12T-15T



REC10 I CONTROL

Note: the hybrid system management control is supplied with DOMUS ES SOLAR heat pump.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
REC10 I control	90	146	32	0.15

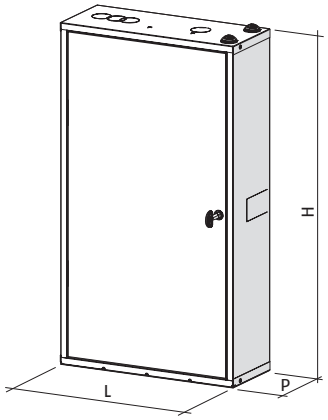
COMBINABLE HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITH SEPARATOR					
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	**20130807**
IN-WALL INSTALLATION BOX	-	-	-	(4)	**20130808**

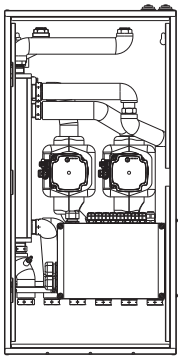
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
(5) Supplied without in-wall installation box.

OVERALL DIMENSIONS

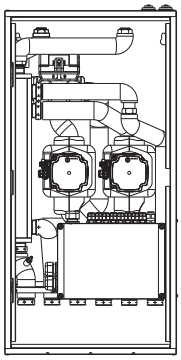


Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

BAG³ HYBRID 2D



BAG³ HYBRID 1D+1M

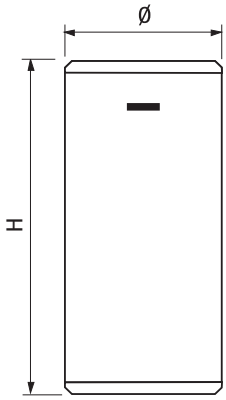


INERTIAL STORAGE TANKS TO BE MATCHED

TECHNICAL DATA

Description	Volume delivered l	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7000 ACI 60 PLUS	57	99	6	34	B	**20090056**
7000 ACI 120 PLUS	123	99	6	50	B	**20082450**

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35

Dimensions and weight with insulation.

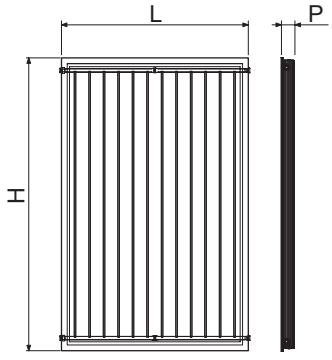
SOLAR COLLECTORS TO BE MATCHED

TECHNICAL DATA

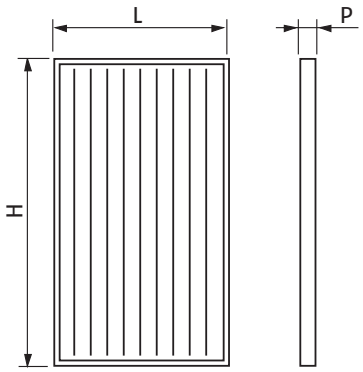
Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code no.
	Gross m²	Net m²	ηo	a1 W/m²K	a2 W/m²K²			
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2.3	2.14	0.802	4.28	0.0064	200	(1)	**20127137**
CSAL 20 RS	1.91	1.77	0.781	4.98	0.0005	192	(1)	**20094521**
CSV 25 R	2.77	2.69	0.7	1.15	0.011	268	(1)	**20023353**
CSV 35 R	3.91	3.84	0.7	1.15	0.011	268	(1)	**20023416**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 223.

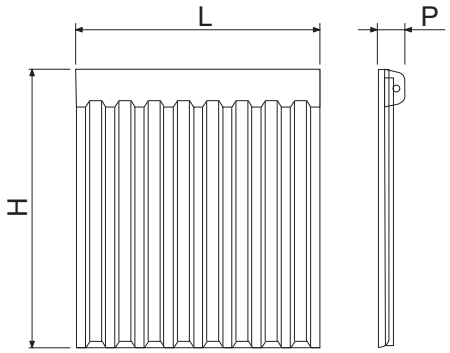
OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44



Description	H mm	L mm	P mm	Net weight kg
CSAL 20 RS	1818	1097	70	30



Description	H mm	L mm	P mm	Net weight kg
CSV 25 R	1730	1600	145	52
CSV 35 R	1730	2260	145	74

GUIDE TO SYSTEM CONFIGURATION

1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

Description	Code	Built-in unit	Possible heat pump combinations							Hydraulic distribution	
		IN-WALL INSTALLATION BOX	DOMUS ES SOLAR 5M	DOMUS ES SOLAR 7M	DOMUS ES SOLAR 9M	DOMUS ES SOLAR 12M	DOMUS ES SOLAR 15M	DOMUS ES SOLAR 12T	DOMUS ES SOLAR 15T	BAG[3] HYBRID 2D	BAG[3] HYBRID 1D+1M
		20161604	20155373	20155375	20155376	20155377	20155382	20155380	20155385	20130806	20130807
HEATING-ONLY VERSION											
FAMILY 25 IS	**20187643**		●	●	●					●	●
FAMILY 35 IS	**20187646**		●	●	●	●	●	●	●	●	●
RESIDENCE 20 IS	**20139526**		●	●	●					●	●
RESIDENCE 35 IS	**20139528**		●	●	●	●	●	●	●	●	●
RESIDENCE IN HYBRID 25 IS	**20135128**	●	●	●	●					●	●

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.

2. WALL-HUNG BOILER ACCESSORIES

Description	Notes	Code
FAMILY BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Compact magnetic water filter		20191517
Compact polyphosphate dispenser		20191518
Double relay kit (second pump/lockout signal)		20062614
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed split system kit Ø80 mm		20129765
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Split kit B23 Ø80 mm for in-wall installation box		20129768
Adapter kit B23 Ø80 mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for heating-only versions		20193279
RESIDENCE BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with gas cock (for IS models)		20133386
High head circulator kit		20105883
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Magnetic filter kit		20178780
Polyphosphate dispenser kit		20178781
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed split system kit Ø80 mm		20129765
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Split kit B23 Ø80 mm for in-wall installation box		20129768
Adapter kit B23 Ø80 mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for heating-only versions		20145305
RESIDENCE IN HYBRID BOILERS		
Door kit for recessed installation	(3)	4047250
Heating system cock kit		4047252
Wall-hung connection kit		4047255
External probe		1220559
Anti-freeze resistance kit for IS versions		20164828
Condensate booster pump kit		20097192
Remote heater well probe (for pairing with IS version)		1220599
LPG conversion kit for Residence In Condens 20 I		20102669
Clapet kit		20162838

(1) Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.
(2) Code required in case of horizontal discharge with flue system 60/100. Accessory already included in kits 20129175 and 20129176.
(3) For retrofit on old boxes without door.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

Description	Notes	Code
Cock kit	(1)	**20155924**
50 litre inertial buffer tank	(2)	**20171999**
2-4-6 kW single-phase heating element kit	(3)	**20155831**
2-4-6 kW three-phase heating element kit	(3)	**20157335**
S hydraulic separator kit (includes secondary circulator)	(4)	**20155826**
L hydraulic separator kit (includes secondary circulator)	(5)	**20155827**
Average temperature circulator kit (towel warmers)		**20155834**
REC10CH locking kit and wall bracket		**20161942**

All accessories are supplied separately as kits and must be installed on site.
(1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks, system and design radiators, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
(2) Inertial storage cannot be installed horizontally below the heat pump.
(3) The power supplied by the heating element depends on the type of wiring performed during installation
(4) Accessory that can be combined with Domus ES 5, 7 and 9 models. This accessory must be installed in the unit before connecting it to the system.
(5) Accessory that can be combined with Domus ES 12, 15 models. This accessory must be installed in the unit before connecting it to the system.

3.2 Secondary circuit management

Description	Notes	Code
1" DHW diverting valve with heater probe		**20175064**
Immersion probe	(1)	**1220599**
1st direct/mixed area control		**20132795**
Control of 2nd and 3rd direct/mixed zone		**20132796**

(1) Used for secondary circuit and heater management.
Note: for ambient temperature adjustment, refer to section SYSTEM ACCESSORIES - THERMOSTATS AND PROGRAMMABLE THERMOSTATS

3.3 Hybrid distribution module accessories

Description	Code
Cock kit on system and heat pump side	**20131752**

4. Hi, COMFORT CONTROLS

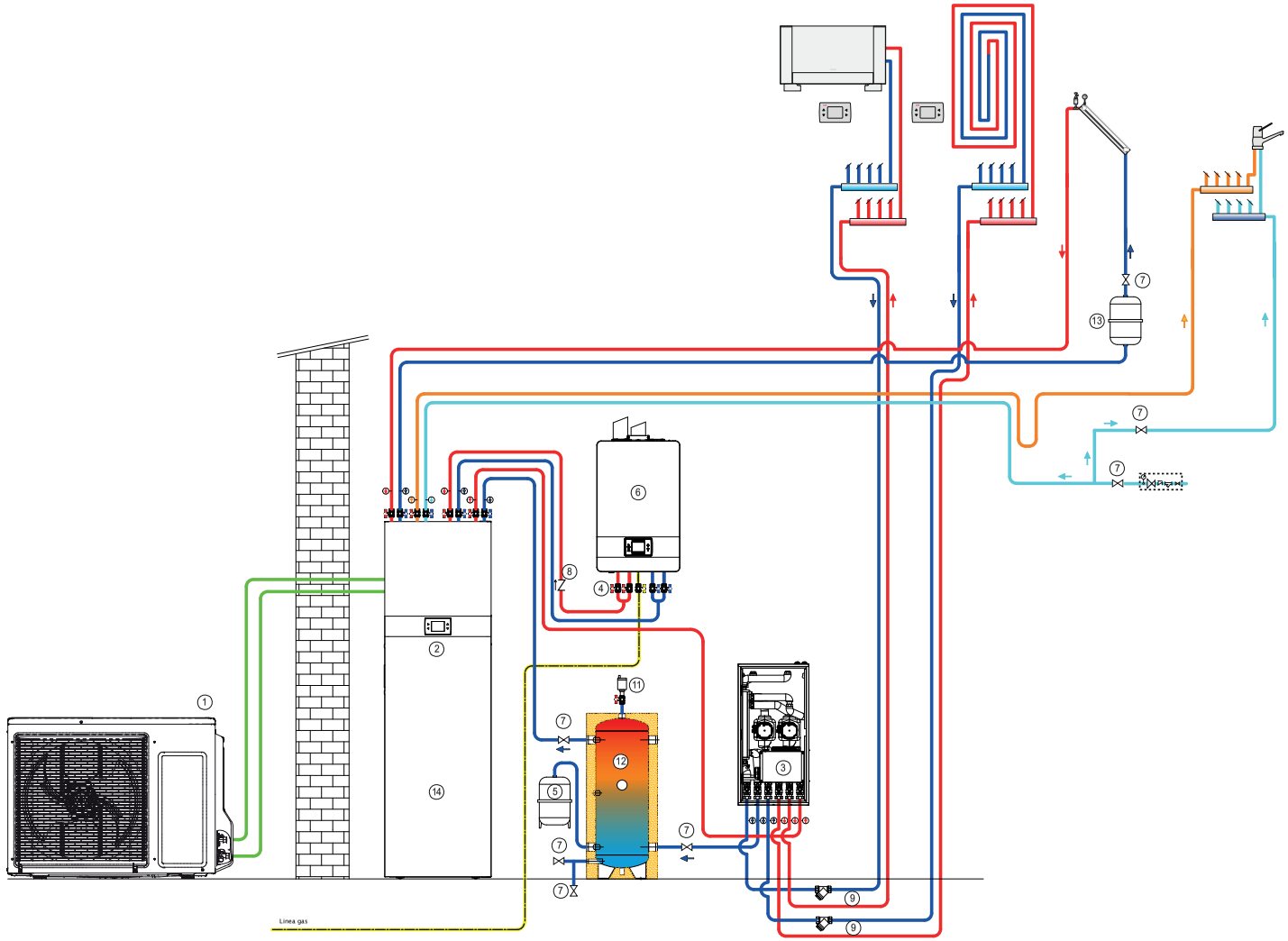
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

EXAMPLES OF SYSTEM WITH SPLIT HYBRID SYSTEM

MONOVALENT TWO-ZONE HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP, BOILER AND SOLAR SYSTEM



1 Heat pump outdoor unit (PdC)
2 PdC indoor unit with circulator, expansion reservoir and DHW storage
3 Hydraulic module with pumps and hydraulic compensator
4 Under-boiler cock kit
5 Expansion reservoir
6 Boiler with circulator and reservoir
7 Shut-off valve
8 Non-return valve
9 Filter
10 Safety valve
11 Deaerator
12 DHW mixer
13 Pre-reservoir
14 Solar station with control unit

Hybrid systems-Floor-standing solution

Hybrid PRO floor-standing system

NEW

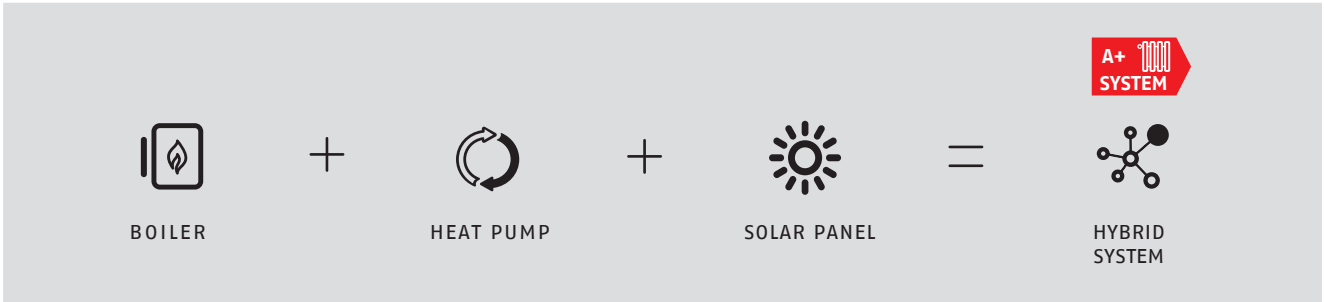
ERP

- Heating and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Large display for setting and monitoring the entire system
- Possibility to control up to 3 independent zones

The Hybrid PRO floor-standing system is a multi-energy hybrid system for room heating and domestic hot water production. This system is made by combining three main components together:

- Stand alone floor-standing boiler of the TAU UNIT series, available in versions ranging from 34.9 up to 115 kW of heat input, to be installed internally either in open chamber or sealed configuration. This range is equipped with a high water content heat exchanger with vertical flue gas tubes, allowing an effective stratification of the water and ensuring that high-temperature water will be in the upper part of the unit, while cold water will accumulate in the lower part, where condensation takes place. The optimal management of combustion and the high modulation ratio (1:10) allow high efficiency and low polluting emissions (NOx in Class 6 according to UNI EN 15502-1). Maximum operating pressure: 5 bar.
- FAMILY ES series split heat pump, available in versions ranging from 12 up to 25 kW, with wall-hung indoor unit for heating and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The indoor unit houses the main components of the hydronic system, high surface plate exchanger and high-efficiency electronic circulation pump. The outdoor unit also stands out for its extreme compactness, with all the hydraulic and cooling connections in the lower part of the unit.
- Simple and intuitive control panel with large backlit display, featured by advanced management logics of the hybrid system, in order to ensure maximum efficiency by giving priority to the most efficient heat source according to the outside temperature. The panel allows the full parametrisation of the system, as well as displaying the operating status. It is supplied with heat pump, complete with bracket, to be positioned directly inside the rooms.

A wide range of accessories is available to complete the system and ensure simple, fast installation in order to meet different installation requirements.

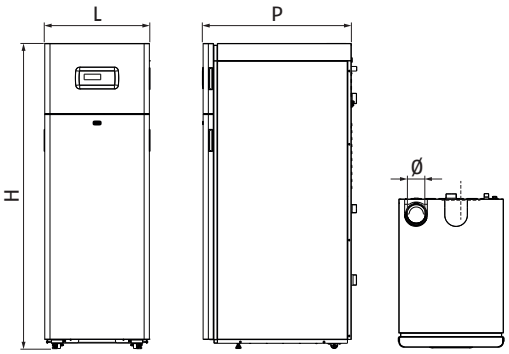


FLOOR-STANDING BOILERS

TECHNICAL DATA

Description	Output kW			Working efficiency			Energy efficiency class	Code
	Delivered max 80°/60°	Delivered max 50°/30°	Furnace thermal output min-max	Max nominal output (80°/60°) %	Max nominal output (50°/30°) %	Red. load 30% of max nominal output (30°C)		
TAU UNIT 35	34.0	37.0	3.5-34.8	97.7	106.3	107.7	A	**20145133**
TAU UNIT 50	48.5	54.5	4.9-49.0	97.1	109.2	108.9	A	**20144105**
TAU UNIT 70	68.0	76.5	6.9-69.9	97.3	109.4	108.5	A	**20144106**
TAU UNIT 100	97.5	106.5	10.0-100.0	97.5	109.2	108.6	-	**20144107**
TAU UNIT 115	112.0	125.4	11.5-115.0	97.4	109.0	108.8	-	**20144108**

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Ø mm	Net weight kg
TAU UNIT 35	1365	600	760	80	135
TAU UNIT 50	1550	600	890	80	155
TAU UNIT 70	1550	600	890	80	165
TAU UNIT 100	1810	600	870	110	245
TAU UNIT 115	1810	600	870	110	245

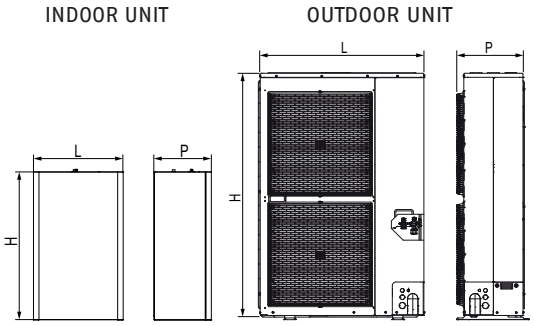
HEAT PUMPS

TECHNICAL DATA

Description	Heating				Cooling (*)				Electrical power supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR AND OUTDOOR UNITS												
FAMILY ES 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A++	**20181797**
FAMILY ES 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A++	**20181805**
FAMILY ES 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A++	**20181803**
FAMILY ES 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A++	**20181806**
FAMILY ES 18T	16.9	4.37	15.9	3.18	19.4	4.13	13.9	3.19	400/3+N/50	A++	A++	**20181807**
FAMILY ES 25T	24.8	4.06	23.2	2.93	27.9	4.20	19.9	3.15	400/3+N/50	A++	A++	**20181809**

(*) If the heat pump is installed in the PRO Wall-hung Hybrid System, the cooling function is disabled.
The performance is in accordance with standards EN 14511:2013 and EN 14825:2016.
(1) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.
(2) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 40/45°C.
(3) External air temperature 35°C; water inlet/outlet 23/18°C.
(4) External air temperature 35°C; water inlet/outlet 12/7°C.
(5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.
(6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

OVERALL DIMENSIONS

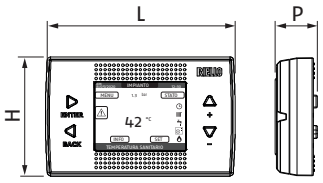


Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
FAMILY ES	825	505	325	41-49
OUTDOOR UNIT				
FAMILY ES 12M/12T	1416	940	340	98
FAMILY ES 15M/15T	1416	940	340	98
FAMILY ES 18T	1416	940	340	98
FAMILY ES 25T	1500	980	370	138

REC10 I CONTROL

Note: the hybrid system control is supplied with the FAMILY ES heat pump.

OVERALL DIMENSIONS



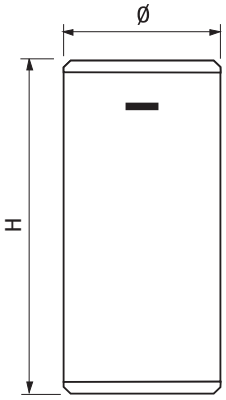
Description	H mm	L mm	P mm	Net weight kg
REC10 I control	90	146	32	0.15

STORAGE TANKS TO BE MATCHED

TECHNICAL DATA

Description	Usable volume l	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7000 ACI 120 PLUS	123	99	6	50	B	**20082450**
7000 ACI 200 PLUS	203	99	6	68	C	**20028093**
7000 ACI 300 PLUS	277	99	6	82	C	**20028094**

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
7000 ACI 120 PLUS	1095	500	35
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55

Dimensions and weight with insulation.

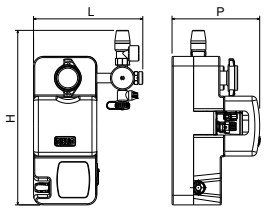
SOLAR HYDRAULIC UNITS TO BE MATCHED

TECHNICAL DATA

Description	Connections and ball valves	Net surface of collectors to be connected* m²	Notes	Code
RSS R	Return-only	20	(1)	**20116168**

(1) Compatible with PWM and ON/OFF control.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RSS R	364	228	183	4.1

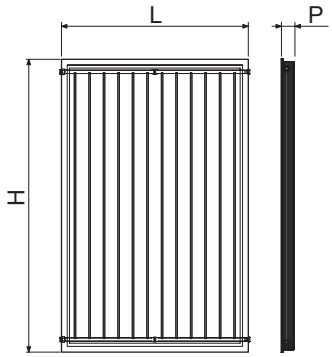
SOLAR COLLECTORS TO BE MATCHED

TECHNICAL DATA

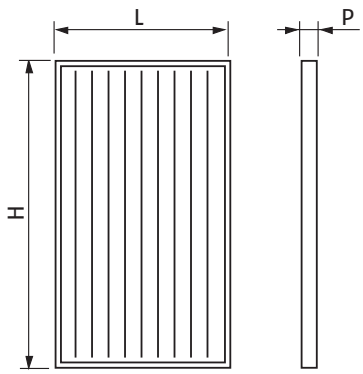
Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code no.
	Gross m²	Net m²	ηo	a1 W/m²K	a2 W/m²K²			
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2.3	2.14	0.802	4.28	0.0064	200	(1)	**20127137**
CSAL 20 RS	1.91	1.77	0.781	4.98	0.0005	192	(1)	**20094521**
CSV 25 R	2.77	2.69	0.7	1.15	0.011	268	(1)	**20023353**
CSV 35 R	3.91	3.84	0.7	1.15	0.011	268	(1)	**20023416**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 223.

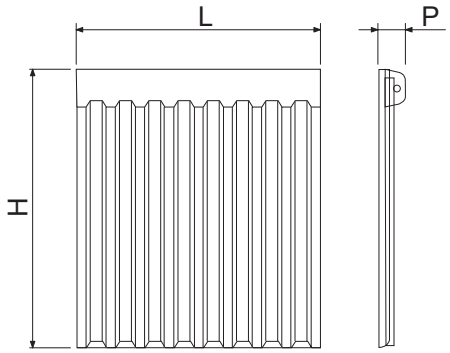
OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44



Description	H mm	L mm	P mm	Net weight kg
CSAL 20 RS	1818	1097	70	30



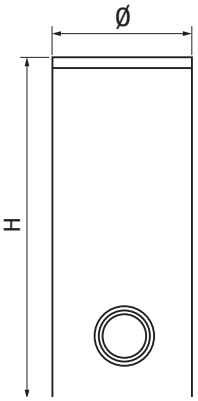
Description	H mm	L mm	P mm	Net weight kg
CSV 25 R	1730	1600	145	52
CSV 35 R	1730	2260	145	74

DHW CYLINDERS TO BE MATCHED

TECHNICAL DATA

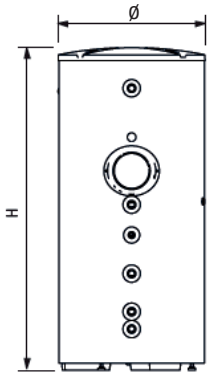
Description	Useful delivered l	Heat pump coil surface area (m²)	Exchange surface area lower coil (m²)	Exchange power upper coil (kW)	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7200 300 HP	263	4.0	-	-	99	10	85	C	**4383500**
7200 500 HP	470	6.0	-	-	99	10	112	C	**4383501**
7200 800 HP	702	7.0	-	-	99	10	130	C	**20136293**
RBC 430 1S	445	-	2	-	99	10	73	B	**20124170**
RBC 550 1S	555	-	2.4	-	99	10	84	B	**20124171**
RBC 800 1S	735	-	2.57	-	99	7	95	B	**20132270**
RBC 1000 1S	890	-	2.92	-	99	7	103	B	**20132271**
RBS 430 2S	430	-	1.4	31.4	99	10	75	B	**20117339**
RBS 550 2S	551	-	1.8	31.4	99	10	68	B	**20116587**
RBS 800 2S	731	-	2.3	50	99	7	94	B	**20132268**
RBS 1000 2S	883	-	2.7	50	99	7	101	B	**20132269**
7200/2-1500 HV PLUS	1390		3.4	47	99	8	162	C	**20136237**
7200/2-2000 HV PLUS	1950		4.6	73	99	8	186	C	**20136239**

OVERALL DIMENSIONS



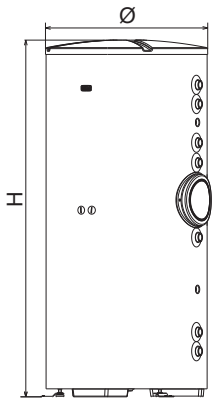
Description	H mm	Ø mm	S (*) mm	Net weight kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	217

(*) Insulation thickness.
Dimensions and weight with insulation.



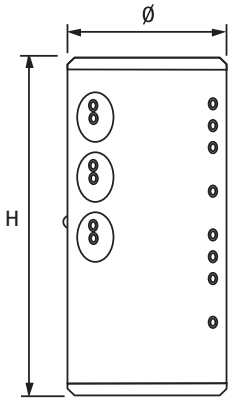
Description	H mm	Ø mm	S (*) mm	Net weight kg
RBC 430 1S	1644	755	52	131
RBC 550 1S	1988	755	52	157
RBC 800 1S	1835	974	92	203
RBC 1000 1S	2155	974	92	225

(*) Insulation thickness.
Dimensions and weight with insulation.



Description	H mm	Ø mm	S (*) mm	Net weight kg
RBS 430 2S	1644	755	50	146
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

(*) Insulation thickness.
Dimensions and weight with insulation.



Description	H mm	Ø mm	S (*) mm	Net weight kg
7200/2-1500 HV PLUS	2185	1200	100	324
7200/2-2000 HV PLUS	2470	1300	100	544

(*) Insulation thickness.
Dimensions and weight with insulation.

SYSTEM CONFIGURATION GUIDE

1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

Description	Code	FAMILY ES 12M	FAMILY ES 15M	FAMILY ES 12T	FAMILY ES 15T	FAMILY ES 18T	FAMILY ES 25T
		20181797	20181805	20181803	20181806	20181807	20181809
TAU UNIT 35	20145133	●	●	●	●	●	
TAU UNIT 50	20144105	●	●	●	●	●	
TAU UNIT 70	20144106		●		●	●	●
TAU UNIT 100	20144107						●
TAU UNIT 115	20144108						●

(*) To satisfy the Italian regulation about the hybrid systems. For the extra-IT markets, all the boiler-HP combinations are available.

2. FLOOR-STANDING BOILER ACCESSORIES

2.1 Accessories to complete the system

Description	Code
Expansion vessel (only for TAU UNIT 35)	**20154816**

2.2 Additional safety devices

Description	Notes	Code
Safety devices kit	(1)	**20180519**
Pressure gauge and safety valve set 4 bar	(2)	**20181010**
Pressure gauge and safety valve set 4,5 bar	(3)	**20181867**
Reduction fitting 2" - 1" ½	(4)	**20182680**
Fuel shut-off valve kit (VIC) - ØG.1"	(5)	**20009486**
DN15 flowmeter		**20149998**
DN20 flowmeter		**20149996**

Description	Notes	Code
DN25 flowmeter		**20146343**

(1) Includes stub pipe with INAIL safety devices, excluding: safety valve + pressure gauge set, fuel shut-off valves and flowmeter (to be ordered separately).
(2) To be provided for TAU UNIT 50-70 models
(3) To be provided for TAU UNIT 100-115 models
(4) To be provided in case of INAIL kit installation for TAU UNIT 100 and 115 models.
(5) Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.

2.3 LPG transformation kit

Description	Code
LPG transformation kit (TAU UNIT 35)	**20145150**
LPG transformation kit (TAU UNIT 50)	**20144699**
LPG transformation kit (TAU UNIT 70)	**20144700**
LPG transformation kit (TAU UNIT 100)	**20144703**
LPG transformation kit (TAU UNIT 115)	**20144704**

2.4 Sealed combustion conversion kit (type C)

Description	Notes	Code
Type C conversion kit (TAU UNIT 35-50)	(1)	**20144759**
Type C conversion kit (TAU UNIT 70)	(1)	**20144760**
Type C conversion kit (TAU UNIT 100-115)	(1)	**20144761**

(1) Accessories for split discharge, for concentric discharge, to complete the installation, refer to the section "Flue systems".

2.5 Flue systems

Description	Notes	Code
Conversion kit for back flue discharge (TAU UNIT 35)	(1)	**20160064**
Conversion kit for back flue discharge (TAU UNIT 50-70)	(1)	**20147234**
Conversion kit for back flue discharge (TAU UNIT 100-115)	(1)	**20147235**

(1) For each type, check the maximum equivalent lengths by referring to the technical data sheet and/or by contacting the pre-sales service. For flue gas exhaust system refer to the 2021 Product Catalogue.

2.6 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	**4031811**
Condensate neutralizer N2 (up to 450 kW)		**4031810**

(1) Equipped with extraction pumps.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

Description	Code
1" Y water filter	**20175281**
7000 ACI 120 PLUS	**20082450**
7000 ACI 200 PLUS	**20028093**
7000 ACI 300 PLUS	**20028094**

3.2 Secondary circuit management

Description	Notes	Code
1" DHW diverting valve with DHW cylinder probe	(1)	**20175064**
Immersion probe	(2)	**1220599**
1st direct/mixed zone management		**20132795**
2nd/3rd direct/mixed zone management		**20132796**

(1) For FAMILY ES 18T and 25T models, carefully check the system and DHW circuit for pressure drops.
(2) Used for secondary circuit and DHW cylinder management.
Note: for room temperature control refer to the 2021 Product Catalogue under section SYSTEM COMPLEMENTARY ITEMS - THERMOSTATS AND CHRONOTHERMOSTATS.

3.3 DHW cylinder accessories

Description	Notes	Code
Electronic anode equipped with plug	(1)	**20055206**
Thermometer kit	(1)	**20123850**
Curve kit for electronic anode	(1)	**20123851**
Solar heat exchanger 0.8 m² for HP 300	(2)	**4383504**
Solar heat exchanger 1.2 m² for 500 HP and 800 HP	(3)	**4383505**

(1) RBC 1S and RBS 2S series DHW cylinder accessories.
(2) 7200 HP 300 DHW cylinder accessories.
(3) 7200 HP 500 and 7200 HP 800 DHW cylinder accessories.

3.4 Solar circuit management

Description	Notes	Code
RSS R solar hydraulic unit	(1)(2)(3)	**20116168**
Solar interface kit	(4)	**20131756**

(1) The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.
(2) Net area of connectable collectors: 20 m².
(3) Connections and ball valves on the return line
(4) It allows viewing the operating status of the solar system on the REC10 I system interface.
Note: in case of installation of collectors with a net surface area >20 m², please refer to the 2021 Product Catalogue under the section SOLAR THERMAL AND CYLINDER - COMPLEMENTARY ITEMS - PUMP STATIONS AND DIFFERENTIAL CONTROLLERS.
Note: for the selection of solar panel accessories, please refer to the 2021 Product Catalogue under the section SOLAR THERMAL AND CYLINDER - SOLAR COLLECTORS.

4. Hi, COMFORT CONTROLS

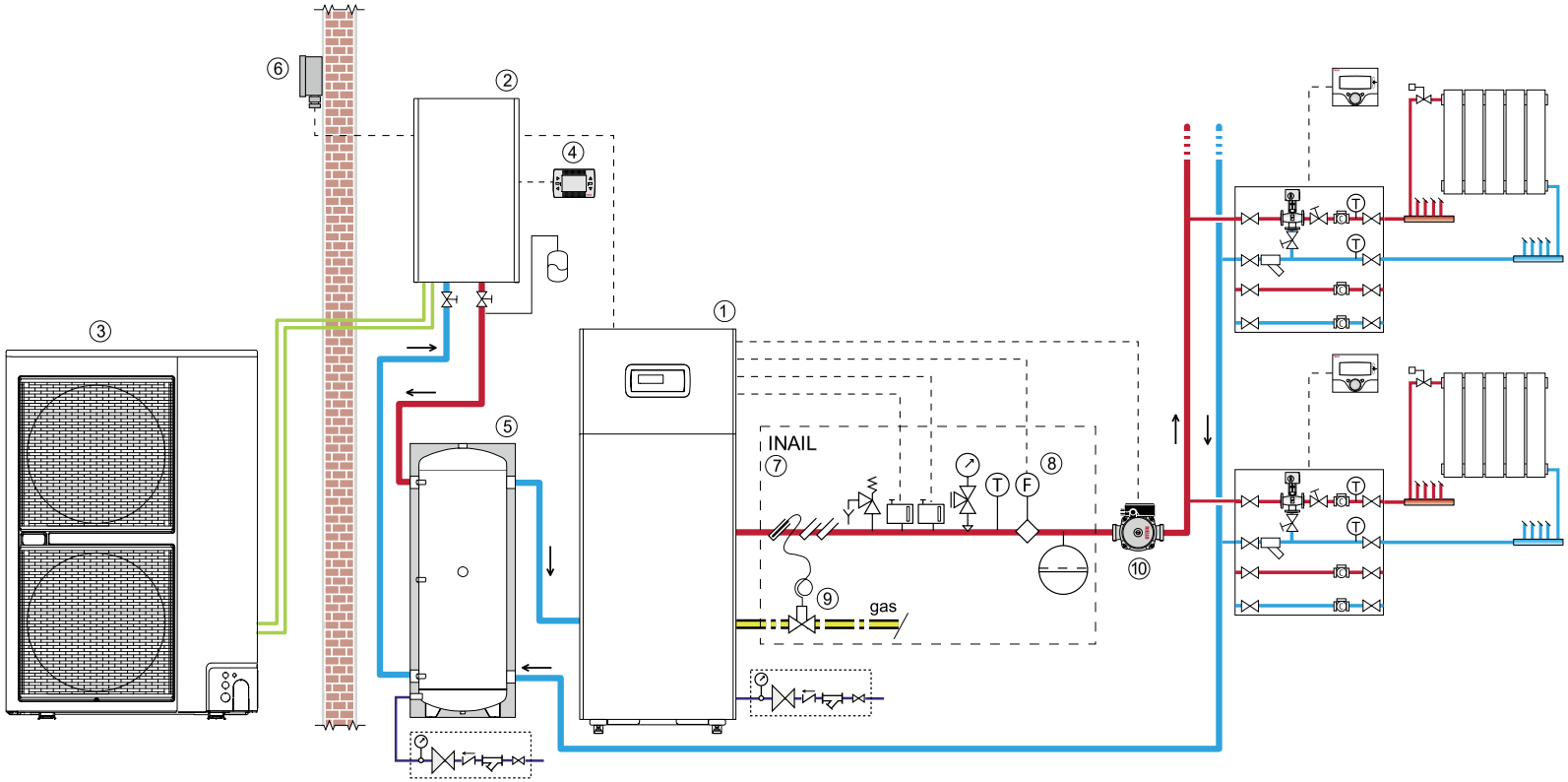
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

EXAMPLES OF INSTALLATION WITH PRO WALL-HUNG HYBRID SYSTEM

BIVALENT HEATING SYSTEM WITH HEAT PUMP AND BOILER



15 TAU UNIT condensing boiler
16 FAMILY ES heat pump indoor unit
17 FAMILY ES heat pump outdoor unit
18 REC10 I control panel (supplied with the heat pump)
19 Storage tank
20 External probe for climatic heat control (supplied with the heat pump)
21 INAIL safety device stub pipe
22 Flowmeter
23 Fuel shut-off valve
24 System circulation pump

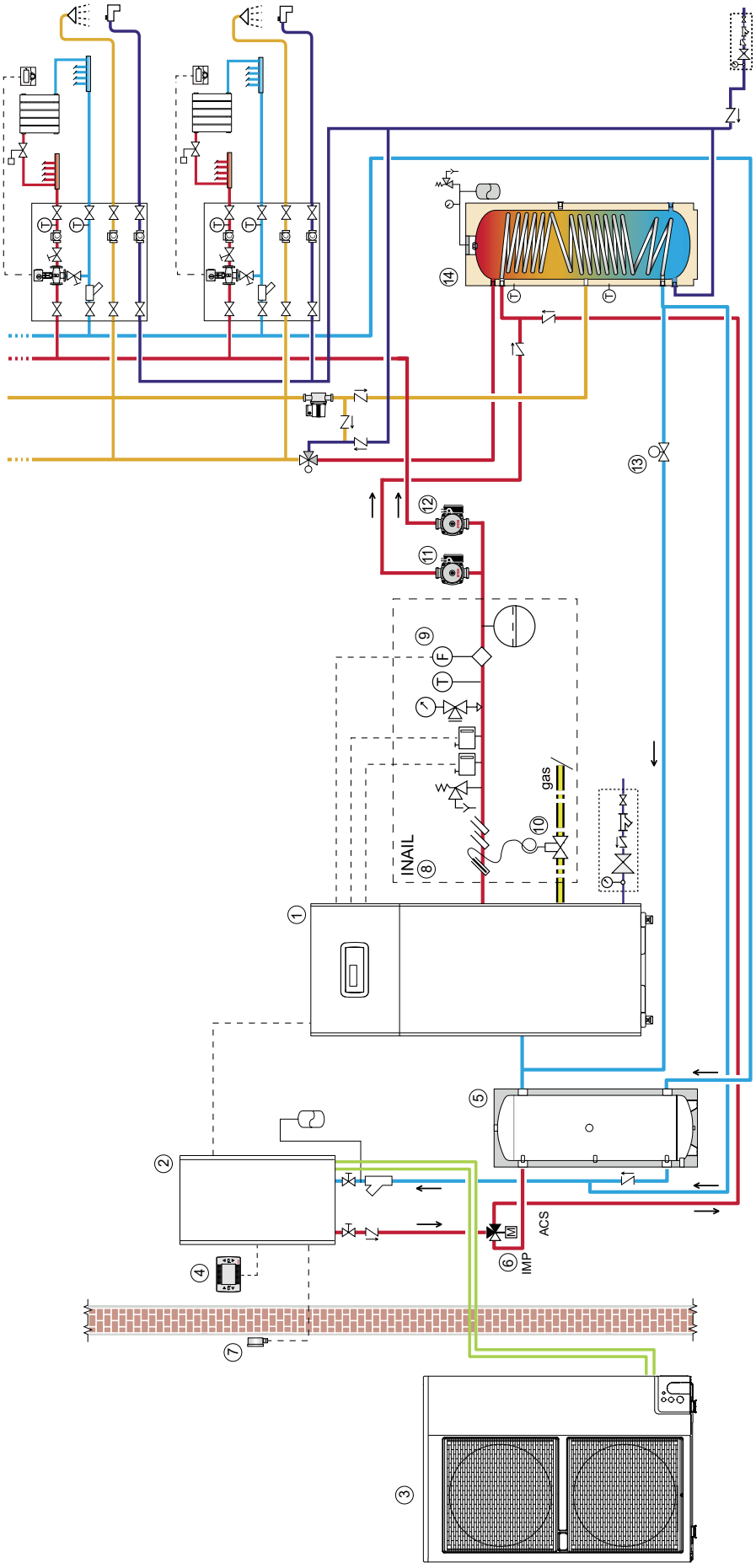
MANDATORY ACCESSORIES

Ref. Layout	Code	Description		Notes	TAU UNIT 35	TAU UNIT 50	TAU UNIT 70	TAU UNIT 100	TAU UNIT 115
FLOOR-STANDING BOILER									
1	-	TAU UNIT		(1)	●	●	●	●	●
7	**20180519**	Safety devices kit				●	●	●	●
7	**20182680**	Reduction fitting 2" - 1" ½						●	●
7	**20181867**	Pressure gauge and safety valve set 4,5 bar				●	●		
7	**20181010**	Pressure gauge and safety valve set 4 bar						●	●
8	**20149998**	DN15 flowmeter	(ΔT = 20°C)			●			
8	**20149996**	DN20 flowmeter	(ΔT = 10°C)			●			
			(ΔT = 15°C)			●	●		
			(ΔT = 20°C)				●	●	
8	**20146343**	DN25 flowmeter	(ΔT = 10°C)				●		
			(ΔT = 15°C)					●	●
			(ΔT = 20°C)						●
8	**20146345**	DN32 flowmeter	(ΔT = 10°C)					●	●
9	**20009486**	Fuel shut-off valve kit (VIC) - ØG.1"				●	●	●	●
HEAT PUMP									
2	-	FAMILY ES indoor unit		(1)	●	●	●	●	●
3	-	FAMILY ES outdoor unit		(1)	●	●	●	●	●
SYSTEM COMPLETION									
4	-	REC10 I control panel		(2)	●	●	●	●	●
6	-	External probe for climatic heat control		(2)	●	●	●	●	●
5	-	7000 ACI PLUS storage tank		(3)	●	●	●	●	●
10	-	System circulation pump		(4)	●	●	●	●	●

(1) Check the combinations indicated in section "1. BOILER-HEAT PUMP COMBINATION".
(2) Supplied with the FAMILY ES heat pump.
(3) The 7000 ACI 120 PLUS storage tank (code 20082450) guarantees the minimum water content necessary for the correct operation of all the heat pump models proposed.
(4) Refer to the SYSTEM COMPLEMENTARY ITEMS - WATER CIRCULATORS section.

RIELLO

BIVALENT HEATING AND COMBINED DHW PRODUCTION SYSTEM WITH HEAT PUMP, BOILER AND SINGLE COIL CYLINDER



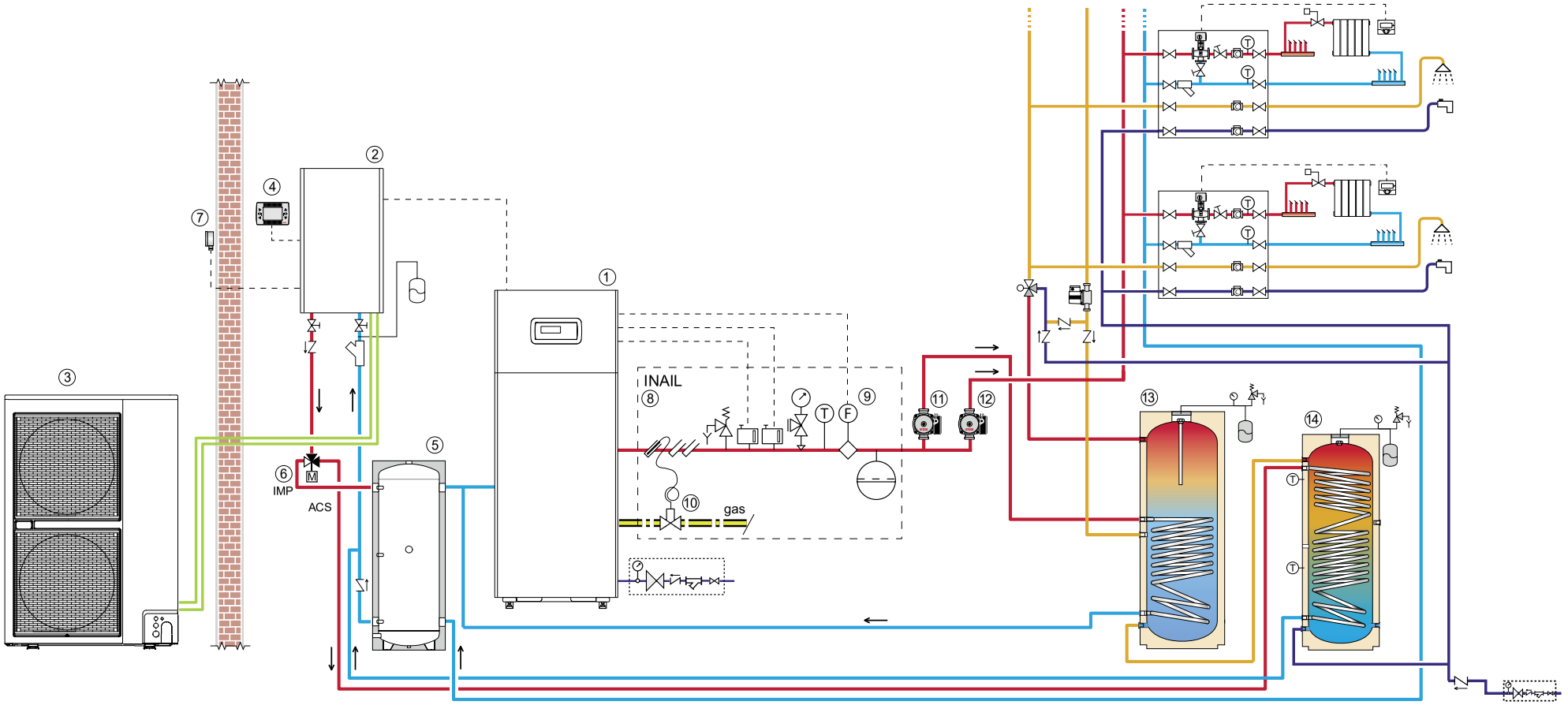
1 TAU UNIT condensing boiler
2 FAMILY ES heat pump indoor unit
3 FAMILY ES heat pump outdoor unit
4 REC10 I control panel (supplied with the heat pump)
5 Storage tank
6 DHW diverting valve
7 External probe for climatic heat control (supplied with the heat pump)
8 INAIL safety device stub pipe
9 Flowmeter
10 Fuel shut-off valve
11 Cylinder loading pump
12 System circulation pump
13 2-way motor-driven valve
14 DHW cylinder

MANDATORY ACCESSORIES

Ref. Layout	Code	Description		Notes	TAU UNIT 35	TAU UNIT 50	TAU UNIT 70	TAU UNIT 100	TAU UNIT 115
FLOOR-STANDING BOILER									
1	-	TAU UNIT		(1)	●	●	●	●	●
8	**20180519**	Safety devices kit				●	●	●	●
8	**20182680**	Reduction fitting 2" - 1" ½						●	●
8	**20181867**	Pressure gauge and safety valve set 4,5 bar				●	●		
8	**20181010**	Pressure gauge and safety valve set 4 bar						●	●
9	**20149998**	DN15 flowmeter	(ΔT = 20°C)			●			
9	**20149996**	DN20 flowmeter	(ΔT = 10°C)			●			
			(ΔT = 15°C)			●	●		
			(ΔT = 20°C)				●	●	
9	**20146343**	DN25 flowmeter	(ΔT = 10°C)				●		
			(ΔT = 15°C)					●	●
			(ΔT = 20°C)						●
9	**20146345**	DN32 flowmeter	(ΔT = 10°C)					●	●
10	**20009486**	Fuel shut-off valve kit (VIC) - ØG.1"				●	●	●	●
HEAT PUMP									
2	-	FAMILY ES indoor unit		(1)	●	●	●	●	●
3	-	FAMILY ES outdoor unit		(1)	●	●	●	●	●
SYSTEM COMPLETION									
4	-	REC10 I control panel (supplied with the heat pump)		(2)	●	●	●	●	●
5	-	7000 ACI PLUS storage tank		(3)	●	●	●	●	●
6	**20175064**	1" DHW diverting valve with cylinder probe			●	●	●	●	●
7	-	External probe for climatic heat control (supplied with the heat pump)		(2)	●	●	●	●	●
11	-	Cylinder loading pump		(4)	●	●	●	●	●
12	-	System circulation pump		(4)	●	●	●	●	●
13	-	2-way motor-driven valve with limit microswitch		(6)	●	●	●	●	●
14	-	DHW cylinder		(5)	●	●	●	●	●

(1) Check the combinations indicated in section "1. BOILER-HEAT PUMP COMBINATION".
(2) Supplied with the FAMILY ES heat pump.
(3) The 7000 ACI 120 PLUS storage tank (code 20082450) guarantees the minimum water content necessary for the correct operation of all the heat pump models proposed.
(4) Refer to the SYSTEM COMPLEMENTARY ITEMS - WATER CIRCULATORS section.
(5) Refer to "TECHNICAL DATA".
(6) Responsibility of the installer.

BIVALENT HEATING AND COMBINED DHW PRODUCTION SYSTEM WITH HEAT PUMP, BOILER AND SINGLE COIL CYLINDER



1 TAU UNIT condensing boiler
2 FAMILY ES heat pump indoor unit
3 FAMILY ES heat pump outdoor unit
4 REC10 I control panel (supplied with the heat pump)
5 Storage tank
6 DHW diverting valve
7 External probe for climatic heat control (supplied with the heat pump)
8 INAIL safety device stub pipe
9 Flowmeter
10 Fuel shut-off valve
11 Cylinder loading pump
12 System circulation pump
13 DHW primary cylinder
14 DHW secondary cylinder

MANDATORY ACCESSORIES

Ref. Layout	Code	Description		Notes	TAU UNIT 35	TAU UNIT 50	TAU UNIT 70	TAU UNIT 100	TAU UNIT 115
FLOOR-STANDING BOILER									
1	-	TAU UNIT		(1)	●	●	●	●	●
8	**20180519**	Safety devices kit				●	●	●	●
8	**20182680**	Reduction fitting 2" - 1" ½						●	●
8	**20181867**	Pressure gauge and safety valve set 4,5 bar				●	●		
8	**20181010**	Pressure gauge and safety valve set 4 bar						●	●
9	**20149998**	DN15 flowmeter	(ΔT = 20°C)			●			
9	**20149996**	DN20 flowmeter	(ΔT = 10°C)			●			
			(ΔT = 15°C)			●	●		
			(ΔT = 20°C)				●	●	
9	**20146343**	DN25 flowmeter	(ΔT = 10°C)				●		
			(ΔT = 15°C)					●	●
			(ΔT = 20°C)						●
9	**20146345**	DN32 flowmeter	(ΔT = 10°C)					●	●
10	**20009486**	Fuel shut-off valve kit (VIC) - ØG.1"				●	●	●	●
HEAT PUMP									
2	-	FAMILY ES indoor unit		(1)	●	●	●	●	●
3	-	FAMILY ES outdoor unit		(1)	●	●	●	●	●
SYSTEM COMPLETION									
4	-	REC10 I control panel (supplied with the heat pump)		(2)	●	●	●	●	●
5	-	7000 ACI PLUS storage tank		(3)	●	●	●	●	●
6	**20175064**	1" DHW diverting valve with cylinder probe			●	●	●	●	●
7	-	External probe for climatic heat control (supplied with the heat pump)		(2)	●	●	●	●	●
11	-	Cylinder loading pump		(4)	●	●	●	●	●
12	-	System circulation pump		(4)	●	●	●	●	●
13	-	DHW primary cylinder		(5)	●	●	●	●	●
14	-	DHW secondary cylinder		(5)	●	●	●	●	●

(1) Check the combinations indicated in section "1. BOILER-HEAT PUMP COMBINATION".
(2) Supplied with the FAMILY ES heat pump.
(3) The 7000 ACI 120 PLUS storage tank (code 20082450) guarantees the minimum water content necessary for the correct operation of all the heat pump models proposed.
(4) Refer to the SYSTEM COMPLEMENTARY ITEMS - WATER CIRCULATORS section.
(5) Refer to "TECHNICAL DATA".

HEAT PUMPS & CHILLERS

HEAT PUMPS

FOR CENTRAL HEATING AND DHW PRODUCTION FROM LOW TO MEDIUM POWER

HEATING AND AIR CONDITIONING

AIR-WATER MONOBLOC

HIGH TEMPERATURE

NXHM 004-016

NXHM 004-016
NXHM 012-016 T

NEW

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NXHM 018-030 (*)

NXHM 018-030T

NEW

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MEDIUM TEMPERATURE

NEXPOLAR 017-022

NEXPOLAR 017-022 TE

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NXH

NXH 026-040

page 122

AIR-WATER SPLIT

WALL-HUNG

FAMILY ES

Family ES 5-15M
Family ES 12-25T

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STANDING

DOMUS ES

Domus ES 5-15M
Domus ES 12-15T

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DOMUS ES SOLAR

Domus ES Solar 5-15M
Domus ES Solar 12-15T

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(*) Available from July 2022.

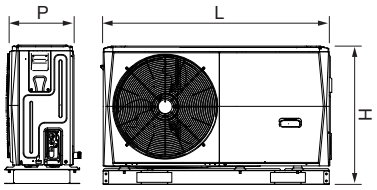
Monobloc air-water heat pumps

NXHM 004-016 NEW

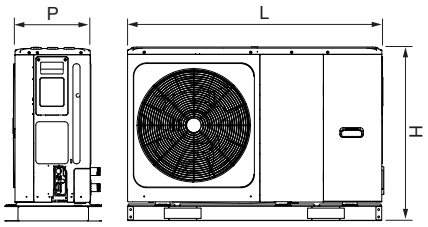
ERP

- High efficiency inverter heat pump in R32

NXH 004-006



NXH 008-016



Description	H mm	L mm	P mm	Net weight kg
NXHM 004	792	1295	429	98
NXHM 006	792	1295	429	98
NXHM 008	945	1385	526	121
NXHM 010	945	1385	526	121
NXHM 012/012T	945	1385	526	144
NXHM 014/014T	945	1385	526	144
NXHM 016/016T	945	1385	526	144

NXHM is a high energy efficient residential hydronic heat pump for heating, cooling and possible production of domestic hot water for domestic use.
The unit operates on ecological R32 refrigerant ensuring not only low Global Warming Potential (GWP) and CO_2 emission, but also powerful performance with high energy efficiency at all times.
NXHM is also equipped with new Blue-Fin exchange coils, a special hydrophilic and anti-corrosion treatment, which improves the flow of condensation on the fins thus reducing the risk of freezing on the coil (maximum efficiency even in humid climates).
NXHM is available in 10 different models with heating capacity from 4.2 to 15.9 kW.

- DC-Inverter technology with Twin-Rotary compressor which modulates the power necessary to perfectly match the real needed load
- High COP and EER (all NXHM heat pumps is compliant with the highest standards in term of energy efficiency)
- HP Keymark certified performance
- They can be connected to low-temperature radiators, underfloor radiant elements and fan coil type units
- Water heating temperature up to +65 °C
- Easy and quick installation
- Silent operation
- Wired controller is included which is able to manage completely heating/ cooling/ domestic hot water system
- The control can manage up to 6 units in cascade system (1 master & 5 slaves) even with different power input
- Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
AIR-WATER MONOBLOC SINGLE PHASE											
NXHM 004	4.20	5.10	4.30	3.80	4.50	5.50	4.70	3.45	230/1/50	A++	**20191936**
NXHM 006	6.35	4.95	6.30	3.70	6.50	4.80	7.00	3.00	230/1/50	A++	**20191940**
NXHM 008	8.40	5.15	8.10	3.85	8.30	5.05	7.45	3.35	230/1/50	A++	**20191942**
NXHM 010	10.00	4.95	10.00	3.75	9.90	4.55	8.20	3.25	230/1/50	A++	**20191943**

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
NXHM 012	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	230/1/50	A++	**20191944**
NXHM 014	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	230/1/50	A++	**20191945**
NXHM 016	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	230/1/50	A++	**20191946**
AIR-WATER MONOBLOC THREE-PHASE											
NXHM 012T	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	400/3/50	A++	**20191947**
NXHM 014T	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	400/3/50	A++	**20191948**
NXHM 016T	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	400/3/50	A++	**20191949**

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

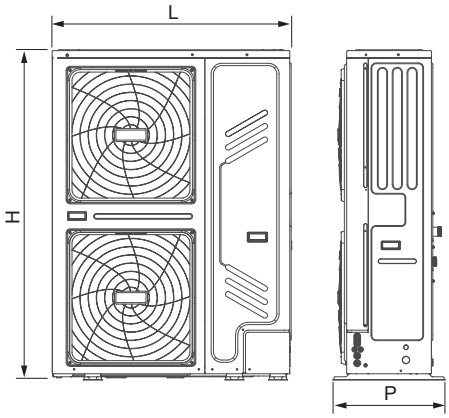
ACCESSORIES

Description	Notes	Code
CYLINDER		
RBC 150 1S		**20124167**
RBC 200 1S		**20124168**
RBC 300 1S		**20124169**
RBC 430 1S		**20124170**
RBC 550 1S		**20124171**
RBC 800 1S		**20132270**
RBC 1000 1S		**20132271**
7200 300 HP (NXHM 004-008)		**4383500**
7200 500 HP (NXHM 010-016)		**4383501**
PUFFER		
7000 ACI 120 PLUS		**20082450**
7000 ACI 60 PLUS		**20090056**
Inertial storage of 50 liters	(8)	**20171999**
HYDRAULIC SYSTEM ACCESSORY		
1" DHW diverting valve with heater probe	(10)	**20168920**
Solar heat exchanger 1.2 m^2 for 500 HP	(1)	**4383505**
Y water filter 1"	(7)	**20175281**
MECHANICAL ACCESSORY		
Solar heat exchanger 0.8 m^2 for 300 HP	(1)	**4383504**
1" DHW diverter valve with boiler probe	(2)(4)(9)	**20175064**
ELECTRICAL ACCESSORY		
REC10MH remote control		**20193921**
Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature		**20194933**
1.5 kW single-phase electric heater kit	(1)	**4383270**
3.0 kW single-phase electric heater kit	(3)(5)(6)	**20182272**
3.8 kW three-phase electric heater kit	(1)	**20020707**
Integrative electrical resistance 1PH-3PH 2-6 kW	(6)	**20182292**

(1) The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.
(2) The accessory must be used in combination with the temperature probe included in the heat pump, or accessory 20194933.
(3) Only in combination with REC10MH remote control.
(4) Mandatory in case of domestic water heater installation.
(5) The kit includes the three-way diverting valve for DHW with heater probe.
(6) Includes electrical power box and activation relay.
(7) The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.
(8) The buffer tank cannot be installed horizontally below the heat pump.
(9) Accessory managed by the machine interface.
(10) Only in combination with the REC10MH remote control.

Monobloc air-water heat pumps

NXHM 018-030 NEW



ERP

- High efficiency inverter heat pump in R32

Description	H mm	L mm	P mm	Net weight kg
NXHM 018T-030T	1558	1129	528	177

NXHM 018-030 is the ideal solution for any type of residential and commercial applications for heating and cooling, with the possibility of producing domestic hot water at high energy efficiency.
The unit operates on ecological R32 refrigerant ensuring not only low Global Warming Potential (GWP) and CO_2 emission, but also powerful performance with high energy efficiency at wide operating range. NXHM 018-030 is also equipped with new Blue-Fin exchange coils, a special hydrophilic and anti-corrosion treatment, which improves the flow of condensation on the fins thus reducing the risk of freezing on the coil (maximum efficiency even in humid climates). The unit is monobloc so all components are included inside to facilitate installation and operation.
NXHM 018-030 is supplied with the control, and is available in 4 different models with heating capacity from 18 to 30 kW.

- DC-Inverter technology with Twin-Rotary compressor which modulates the power necessary to perfectly match the real needed load
- High COP and EER (all NXHM heat pumps is compliant with the highest standards in term of energy efficiency)
- HP Keymark certified performance
- They can be connected to low-temperature radiators, underfloor radiant elements and fan coil type units
- Water heating temperature up to +60 °C
- Easy and quick installation
- Silent operation
- Wired controller is included which is able to manage completely heating/ cooling/ domestic hot water system
- The control can manage up to 6 units in cascade system (1 master & 5 slaves) even with different power input
- Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
THREE PHASE MONOBLOC AIR - WATER											
NXHM 018T	18.00	4.70	18.00	3.50	18.50	4.75	17.00	3.05	400/3/50	A++	**20194140**
NXHM 022T	22.00	4.40	22.00	3.40	23.00	4.60	21.00	2.95	400/3/50	A++	**20194141**
NXHM 026T	26.00	4.08	26.00	3.10	27.00	4.30	26.00	2.70	400/3/50	A+	**20194142**
NXHM 030T	30.10	3.91	30.00	2.90	31.00	4.00	29.50	2.55	400/3/50	A+	**20194143**

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

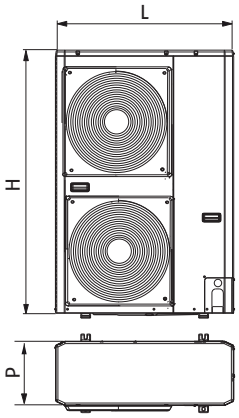
ACCESSORIES

Description	Notes	Code
CYLINDER		
RBC 800 1S		**20132270**
RBC 1000 1S		**20132271**
7200 HP 500		**4383501**
7200 HP 800		**20136293**
PUFFER		
7000 ACI 60 PLUS		**20090056**
7000 ACI 120 PLUS		**20082450**
Inertial storage of 100 liters		**20142300**
MECHANICAL ACCESSORY		
Solar exchanger 1,2 m^2 (7200 500-800 HP)	(1)(2)	**4383505**
Support bracket kit		**20175145**
ELECTRICAL ACCESSORY		
Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature		**20194933**
1.5 kW single-phase electric heater kit	(1)(2)	**4383270**
2.2 kW single-phase electric heater kit	(1)(2)	**4383271**
3.0 kW single-phase electric heater kit	(1)(2)	**4383272**
3.8 kW three-phase electric heater kit	(1)(2)	**20020707**

(1) The accessory must be ordered together with the base unit and is supplied not installed with the availability of the finished product.
(2) Not for 7000 ACI 60 PLUS.

Monobloc air-water heat pumps

NexPolar 017-022



ERP

- High efficiency inverter heat pump

Description	H mm	L mm	P mm
NexPolar 017-022	1579	1135	559

NexPolar is the new Riello proposal for heating and cooling, with possible production of high energy efficient domestic hot water for domestic use. The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing
high energy efficiency at all times. The operating range of the unit in winter reaches outdoor temperatures of -20 °C, with hot water up to +60 °C; in summer operation the maximum outdoor temperature is +47 °C with a maximum chilled water temperature of +18 °C.
NexPolar is therefore the ideal proposal for any type of residential and commercial application for heating and cooling with underfloor installations and/or fan coils.
The unit is monobloc, so all components are housed inside to facilitate and speed up installation operations.
NexPolar is supplied with climate control as standard. NexPolar is available in nine models, 17 and 21 kW.

- DC-Inverter technology with Twin-Rotary compressor
- Low inrush current thanks to the Inverter technology
- High COP and EER
- They can be connected to low-temperature radiators, underfloor heating elements and fan coil type units
- On-board control as standard
- Water heating temperature up to +60°C
- Easy and quick installation; only connection of the hydraulic pipes is required
- Small size.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)			(5)	
	Nom. power kW	COP	Nom. power kW	COP	Nom. power kW	EER	Nom. power kW	EER			
NexPolar 017 TE	17.10	4.10	16.90	3.30	20.20	3.80	14.90	3.00	400/3/50	A+	**20102834**
NexPolar 022 TE	21.10	4.10	21.00	3.30	25.80	3.80	18.60	3.10	400/3/50	A+	**20102838**

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

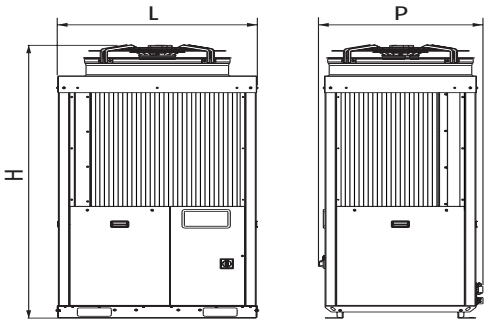
ACCESSORIES

Description	Notes	Code
7000 ACI 60 PLUS		**20090056**
7000 ACI 120 PLUS		**20082450**
Support bracket kit		**20175145**
Heater single-phase heating element kit 1.5 kW for 7000 ACI PLUS	(1)	**4383270**
Heater three-phase heating element kit 3.8 kW for 7000 ACI PLUS	(1)	**20020707**
External air probe		**20028567**
Domestic water probe		**20121637**
Cascade probe		**20121638**
100 litre inertial buffer tank		**20142300**
1" Y water filter		**20175281**

(1) The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.

Monobloc air-water heat pumps

NXH 026-040



ERP

- Air-water reversible heat pumps for powers from 31 kW to 39 kW with helical fan and hydronic kit as standard

Description	H mm	L mm	P mm
NXH 026-040	1790	1002	824

The NXH series units are reversible heat pumps with pumping unit and self-adaptive control, which allows a reduction of the quantity of water in the system. These features, the wide operating range with outdoor temperatures down to -15°C in heating mode and up to +48°C in air conditioning mode, make this series ideal for applications where extreme compactness, simplicity and speed of installation are required.
The unit is silent thanks to the high efficiency scroll compressor and the low noise axial fan.

- CLASS A + efficiency
- Plug & Play solution with pump on board the machine
- Easy maintenance by removing the service panels
- Microprocessor-based self-adaptive control system.

TECHNICAL DATA

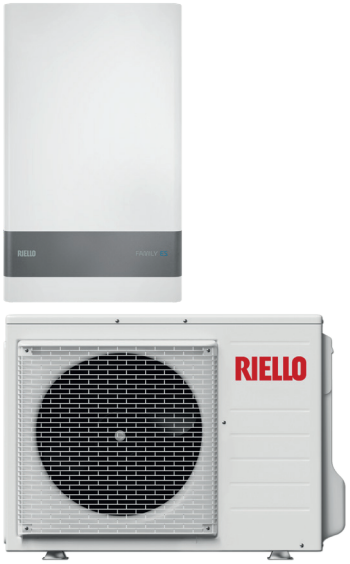
Description	Output (1) kW	COP (1)	Output (2) kW	COP (2)	Output (3) kW	EER (3)	Output (4) kW	EER (4)	ESEER (4)	Energy efficiency class (5)	Notes	Code
NXH 026	30.9	3.94	29.7	3.18	33.9	3.52	26.2	2.89	3.23	A+	(A)	**20120387**
NXH 033	34.4	3.95	33.1	3.17	42.8	3.83	32.2	3.11	3.46	A+	(A)	**20120388**
NXH 040	38.8	3.48	40.9	3.13	54	3.37	39.1	2.81	3.12	A+	(A)	**20120389**

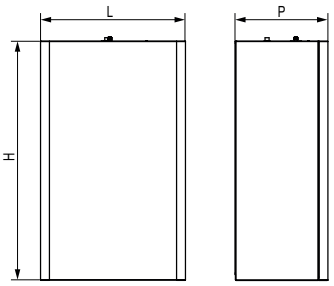
The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for low temperature application.

Conditions for supply:
(A) For 7000 ACI PLUS tank accessories, refer to the dedicated section.

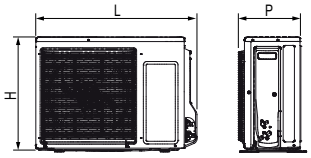
Wall-hung split air-water heat pumps

Family ES

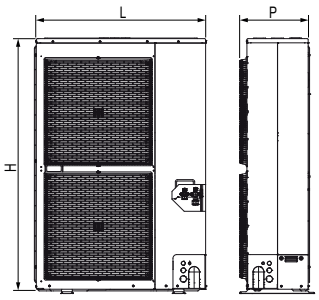




5M-7M-9M MODELS



12M-15M-12T-15T MODELS



ERP

- Split type heat pump with wall-hung indoor unit for heating, cooling and DHW production
- Wide range of powers available, from 5 to 25kW
- Intelligent management of multiple energy sources: heat pump, boiler and solar thermal
- Control panel that can be positioned in the room also with room sensor function (V ErP class)

Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
FAMILY ES	825	505	325	41-49
OUTDOOR UNIT				
FAMILY ES 5M	619	799	299	39
FAMILY ES 7M	619	799	299	40
FAMILY ES 9M	996	940	340	69
FAMILY ES 12M/12T	1416	940	340	98
FAMILY ES 15M/15T	1416	940	340	98
FAMILY ES 18T	1416	940	340	98
FAMILY ES 25T	1500	980	370	138

Family ES is a split type heat pump system with wall-hung indoor unit for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor wall-hung unit.
The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C.
The indoor unit houses the main components of the hydronic system, high surface plate exchanger, high efficiency electronic circulator, collector for installation of an additional heating element available as ACCESSORY.
The indoor unit is extremely compact with all hydraulic and refrigerant connections from below.
Remove the front panel to access all internal components, the electronic service panel and the electrical terminal block.
The system control panel is simple and intuitive, with large backlit colour display. It is supplied complete with bracket to be positioned directly inside the rooms. It can be used as room control and allows integration with BAG3 Hybrid distribution systems.
As an alternative to the additional heating element, the Family ES control can also manage an auxiliary heat source, such as a boiler, to be operated as integration or as backup.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES SHOWN BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR UNIT AND OUTDOOR UNIT												
FAMILY ES 5M	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	230/1/50	A++	A++	**20181792**
FAMILY ES 7M	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	230/1/50	A++	A++	**20181795**
FAMILY ES 9M	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	230/1/50	A+++	A++	**20181796**
FAMILY ES 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A++	**20181797**
FAMILY ES 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A++	**20181805**
FAMILY ES 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A++	**20181803**
FAMILY ES 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A++	**20181806**
FAMILY ES 18T	16.9	4.37	15.9	3.18	19.4	4.13	13.9	3.19	400/3+N/50	A++	A++	**20181807**
FAMILY ES 25T	24.8	4.06	23.2	2.93	27.9	4.20	19.9	3.15	400/3+N/50	A++	A++	**20181809**

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
(2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
(3) External air temperature 35°C; water inlet/outlet 23/18°C
(4) External air temperature 35°C; water inlet/outlet 12/7°C
(5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013
(6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013

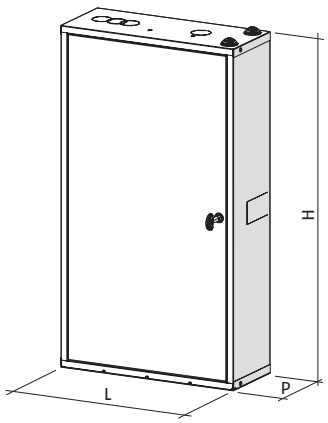
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	**20130807**
IN-WALL INSTALLATION BOX				(4)	**20130808**

(1) Supplied without in-wall installation box.
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

CODE MATCHING TABLE

Description	Set code	Indoor unit code	Outdoor unit code
FAMILY ES 5M	20181792	20174927	20155167
FAMILY ES 7M	20181795	20174927	20155172
FAMILY ES 9M	20181796	20174927	20155173
FAMILY ES 12M	20181797	20174929	20155174
FAMILY ES 15M	20181805	20174929	20155175
FAMILY ES 12T	20181803	20174932	20155182
FAMILY ES 15T	20181806	20174932	20155184
FAMILY ES 18T	20181807	20174932	20175541
FAMILY ES 25T	20181809	20174933	20175544

ACCESSORIES

Description	Notes	Code
CYLINDER		
RBC 150 1S		**20124167**
RBC 200 1S		**20124168**
RBC 300 1S		**20124169**
RBC 430 1S		**20124170**
RBC 550 1S		**20124171**
RBC 800 1S		**20132270**
RBC 1000 1S		**20132271**
7200 300 HP		**4383500**
7200 500 HP		**4383501**
PUFFER		
50 litre inertial buffer tank		**20171999**
ELECTRICAL ACCESSORY		
2-4-6 kW single-phase heating element kit	(1)	**20155831**
2-4-6 kW three-phase heating element kit	(1)	**20157335**
MECHANICAL ACCESSORY		
1" DHW diverting valve with heater probe		**20175064**
HYDRAULIC SYSTEM ACCESSORY		
1" Y water filter		**20175281**

(1) The power supplied by the heating element depends on the type of wiring performed during installation.

Hi, COMFORT CONTROLS

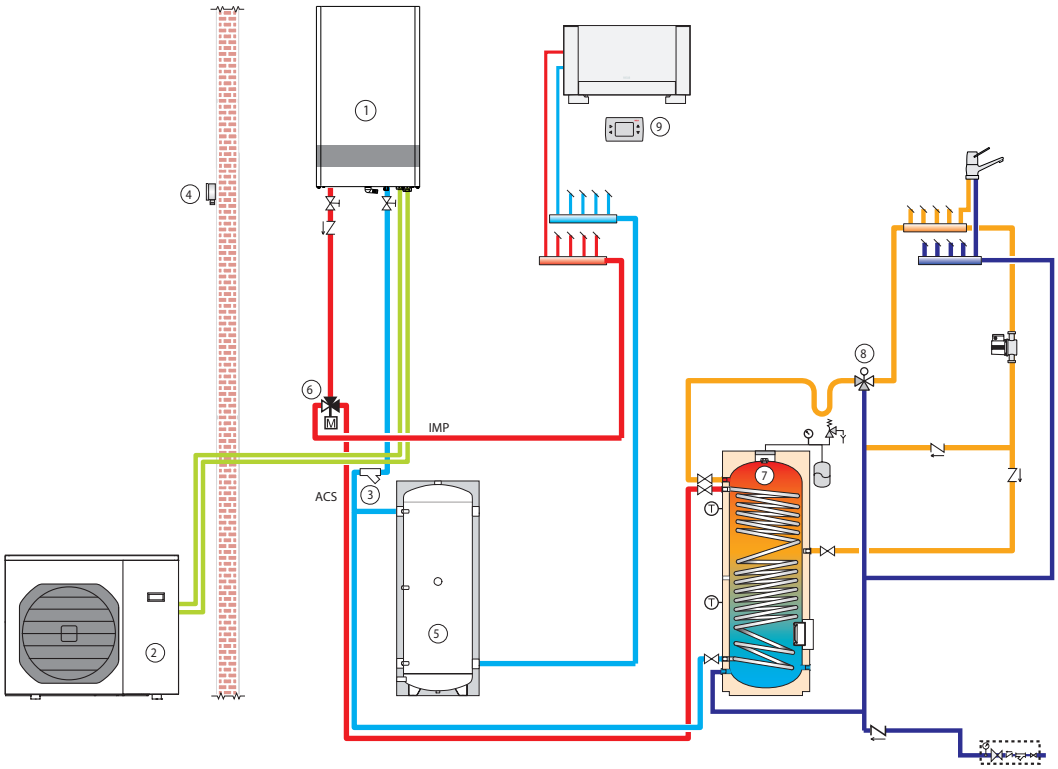
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

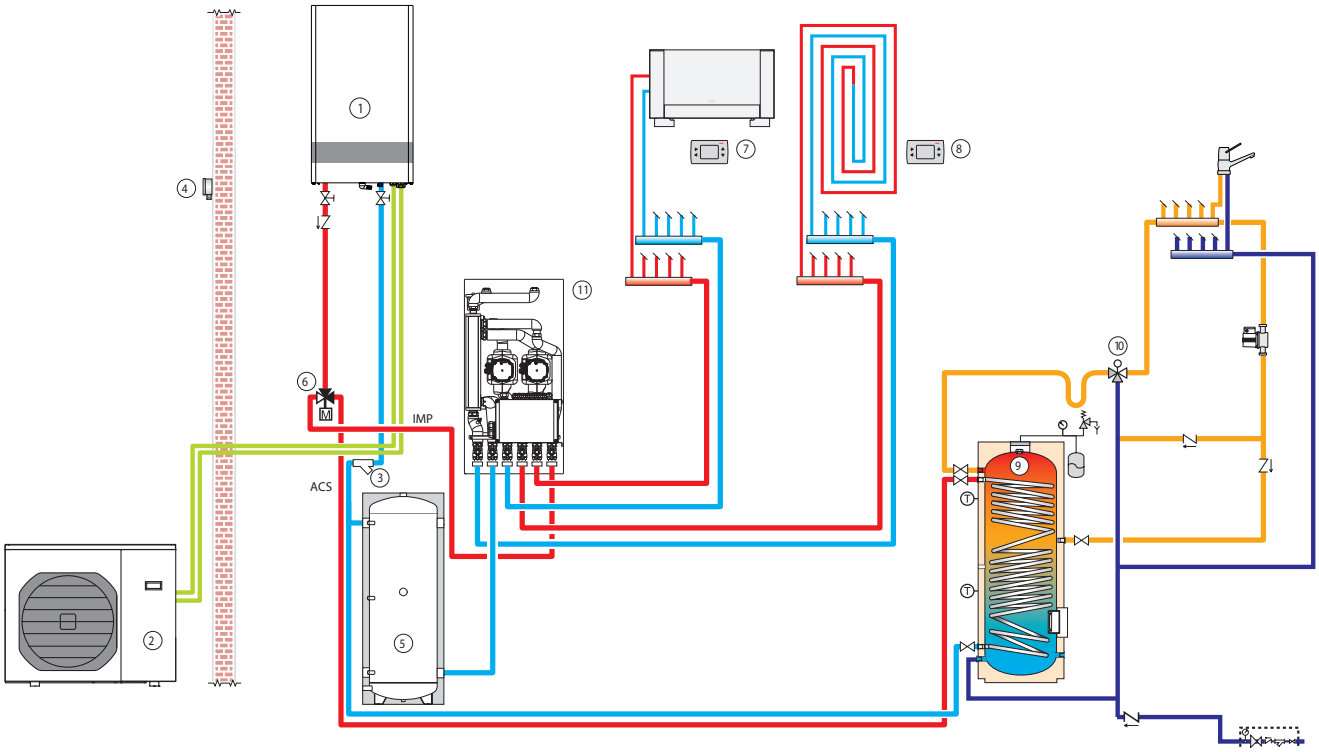
SYSTEM DIAGRAMS

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM



1 Indoor unit heat pump
2 Outdoor unit heat pump
3 Y-filter
4 External air probe
5 Buffer tank
6 DHW diverting valve kit
7 Heater
8 ¾" thermostatic mixer
9 REC10CH remote control

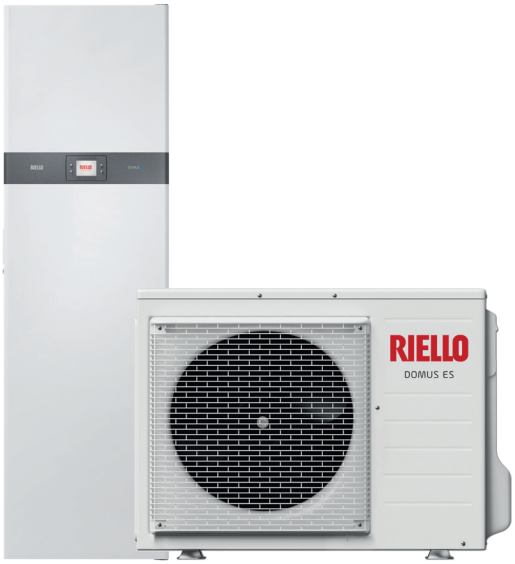
BIVALENT SYSTEM FOR HEATING, COOLING AND MULTIZONE DHW PRODUCTION

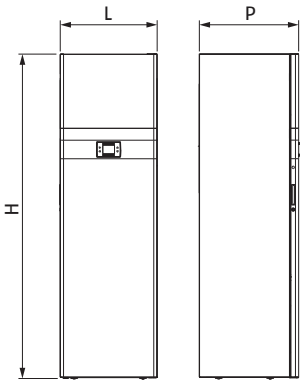


1 Indoor unit heat pump
2 Outdoor unit heat pump
3 Y-filter
4 External air probe
5 Buffer tank
6 DHW diverting valve kit
7 REC10CH remote control
8 Additional zone control
9 Heater
10 ¾" thermostatic mixer
11 BAG³ HYBRID

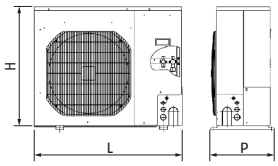
Floor standing split air-water heat pumps

Domus ES

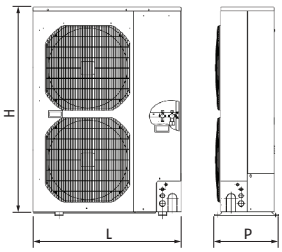




5M-7M-9M MODELS



12M-15M-12T-15T MODELS



ERP

- Ready-to-use solution for heating, cooling and DHW production
- Dedicated connections for bathroom towel warmers with temperature and management independent from the main system
- Instant DHW production with high efficiency stainless steel heat exchanger (no anti-legionella)
- Possibility of connecting and managing a second external generator

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5-7-9-12-15M **DOMUS ES 12-15T**	600	600	2000	179

Note: dimensions and weights refer to the indoor unit only.

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5M	619	799	299	39
DOMUS ES 7M	619	799	299	40
DOMUS ES 9M	996	940	340	69
DOMUS ES 12M	1416	940	340	98
DOMUS ES 15M	1416	940	340	98
DOMUS ES 12T	1416	940	340	98
DOMUS ES 15T	1416	940	340	98

Note: dimensions and weights refer to the outdoor unit only.

Domus ES is a floor-standing split heat pump system for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor floor-standing unit.
The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C.
The main components of the hydronic system are located in the indoor unit, including a 200l buffer tank with high-surface stainless steel coil for instantaneous production of domestic hot water.

- All-in-One floor-standing indoor unit for clean and tidy installation
- 200l buffer tank with exchanger for instantaneous production of DHW
- Elimination of anti-legionella cycles
- Compact indoor unit, only 600x600mm plan dimensions, and with reduced clear spaces
- Hydraulic, electrical and refrigeration connections from above
- Front access to all components and simplified installation thanks to the cock kit (ACCESSORY)
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room
- Connections for 2 independent direct zones: one for the main heating/air conditioning system, the other for towel warmers
- Easy integration with a secondary backup generator through dedicated hydraulic connections and management via digital signals

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES SHOWN BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR UNIT AND OUTDOOR UNIT												
DOMUS ES 5M	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	230/1/50	A++	A /L	**20155360**
DOMUS ES 7M	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	230/1/50	A++	A /L	**20155362**
DOMUS ES 9M	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	230/1/50	A+++	A /L	**20155363**
DOMUS ES 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A /XL	**20155364**
DOMUS ES 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A /XL	**20155366**
DOMUS ES 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A /XL	**20155365**
DOMUS ES 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A /XL	**20155368**

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
(2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
(3) External air temperature 35°C; water inlet/outlet 23/18°C
(4) External air temperature 35°C; water inlet/outlet 12/7°C
(5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
(6) Tank set temperature 53°C. Values compliant with standard EN 16147.

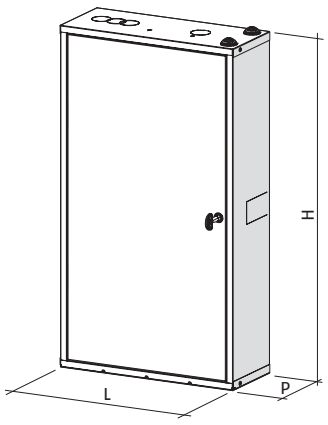
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum absorbed power W	Notes	Code
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	**20130807**
IN-WALL INSTALLATION BOX				(4)	**20130808**

(1) Supplied without in-wall installation box.
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

CODE MATCHING TABLE

Description	Set code	Indoor unit code	Outdoor unit code
DOMUS ES 5M	20155360	20155167	20155185
DOMUS ES 7M	20155362	20155172	20155186
DOMUS ES 9M	20155363	20155173	20155311
DOMUS ES 12M	20155364	20155174	20155313
DOMUS ES 15M	20155366	20155175	20155315
DOMUS ES 12T	20155365	20155182	20155316
DOMUS ES 15T	20155368	20155184	20155318

ACCESSORIES

Description	Notes	Code
Cock kit	(1)	**20155924**
50 litre inertial buffer tank		**20171999**
2-4-6 kW single-phase heating element kit	(2)	**20155831**
2-4-6 kW three-phase heating element kit	(2)	**20157335**
S hydraulic separator kit (includes secondary circulator)	(3)	**20155826**
L hydraulic separator kit (includes secondary circulator)	(4)	**20155827**
Average temperature circulator kit (towel warmers)		**20155834**
REC10CH locking kit and wall bracket		**20161942**
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit for BAG³ HYBRID on system and heat pump side		**20131752**

All accessories are supplied separately as kits and must be installed on site.
(1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks , system and towel warmers, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
(2) The power supplied by the heating element depends on the type of wiring performed during installation
(3) Accessory that can be combined with Domus ES 5, 7 and 9 models. This accessory must be installed in the unit before connecting it to the system.
(4) Accessory that can be combined with Domus ES 12, 15 models. This accessory must be installed in the unit before connecting it to the system.

Hi, COMFORT CONTROLS

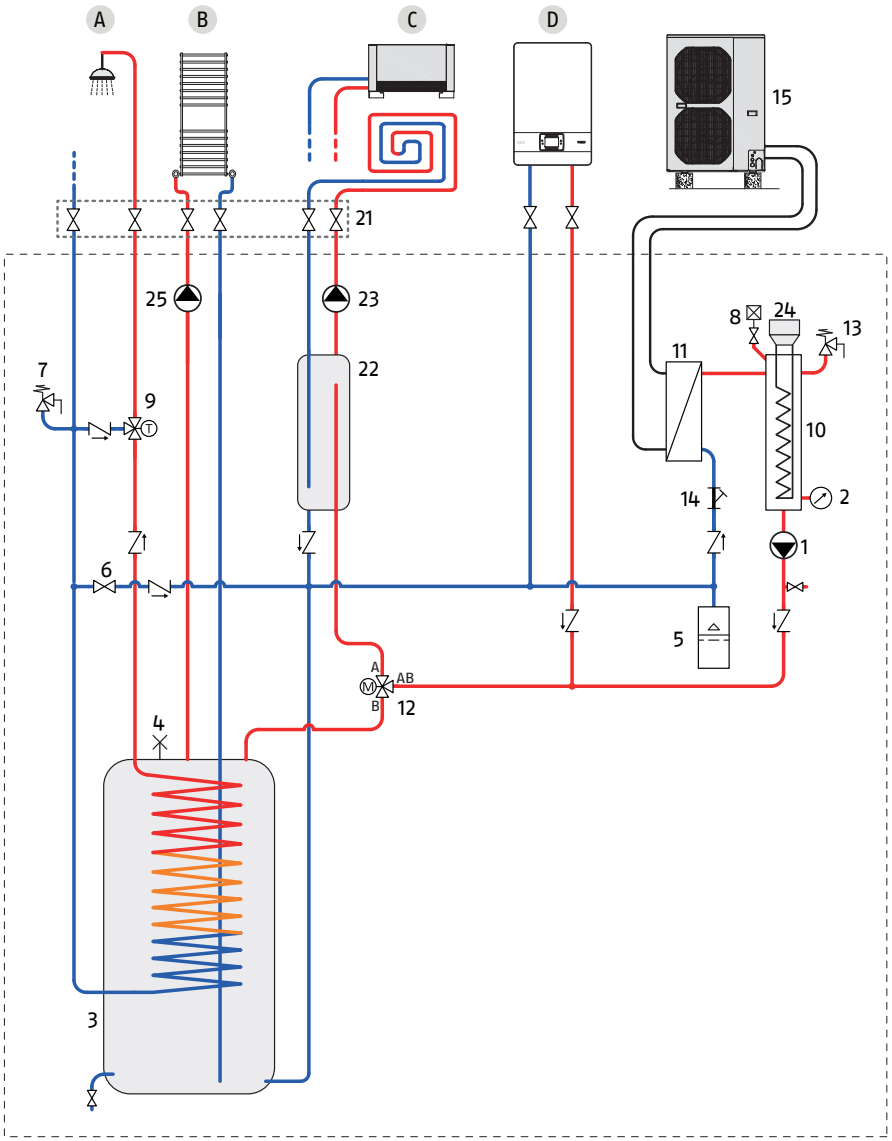
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

HYDRAULIC DIAGRAM

- The control of a possible external boiler is performed through two digital signals: one for enabling and one for management of a second setpoint in case of domestic water request.
- If a boiler presence is configured, it will only be used as an alternative (backup) to the heat pump.
- If the single-phase/three-phase heating element kit is configured, it can be set to operate as an integration or as an alternative to the heat pump.
- The connections to the average temperature circuit for towel warmers are always present, but to operate they require the average temperature circulator kit ACCESSORY. This can be installed directly inside the unit where the power cable for the pump and the terminals to which the bathroom thermostats can be connected are already in place.
- The average temperature circuit for towel warmers is completely independent from the main system and can therefore be used even when the latter is off. The delivery temperature is equal to the temperature set for the domestic water buffer tank.
- The main system is managed through a digital enabling of a room thermostat. If more than one zone is to be managed, the various room thermostats must be placed in parallel and it is advisable to add the "Hydraulic separator kit" ACCESSORY to the standard equipment.
- Otherwise, it is possible to remotely connect the user interface of the indoor unit in the room, using it also as room thermostat. If more than one zone is to be managed, the BAG³ Hybrid must be added as a distribution system.



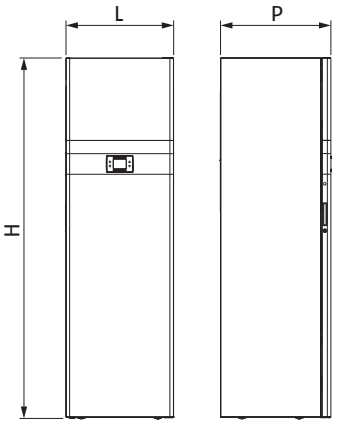
A Domestic water users
B Towel warmers
C Main system users
D Secondary generator (boiler)

1 Primary circulation pump (P1)
2 Pressure gauge
3 Domestic water buffer tank
4 Manual bleeder valve
5 Expansion reservoir
6 System load valve
7 6-bar safety valve
8 Automatic drain valve
9 Thermostatic mixing valve
10 Manifold
11 Plate exchanger
12 3-way diverting valve
13 3-bar safety valve
14 Y-filter
15 Outdoor unit
21 Cock kit *
22 Hydraulic separator **
23 Secondary circulation pump (P2) **
24 2/4/6 kW supplemental heating element ***
25 Towel warmer circulation pump (P3) ****

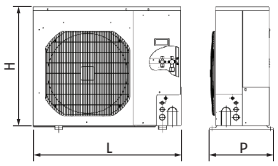
* Accessory cock kit
** Accessory hydraulic separator kit with secondary circuit circulator
*** Accessory supplemental heating element kit
**** Accessory towel warmer circulator kit

Floor standing split air-water heat pumps

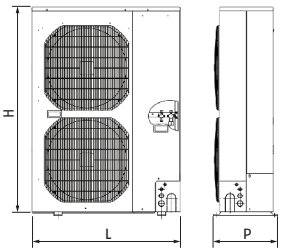
Domus ES Solar



MODEL 5M-7M-9M



MODEL 12M-15M-12T-15T



ERP

- Ready-to-use solution for heating, cooling and DHW production
- Dedicated connections for bathroom towel warmers with temperature and management independent from the main system
- Instant DHW production with high efficiency stainless steel heat exchanger (no anti-legionella)
- Intelligent management of multiple energy sources: heat pump, boiler and solar thermal

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5-7-9-12-15M **DOMUS ES 12-15T**	600	600	2000	179

Note: dimensions and weights refer to the indoor unit only.

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES SOLAR 5M	619	799	299	39
DOMUS ES SOLAR 7M	619	799	299	40
DOMUS ES SOLAR 9M	996	940	340	69
DOMUS ES SOLAR 12M	1416	940	340	98
DOMUS ES SOLAR 15M	1416	940	340	98
DOMUS ES SOLAR 12T	1416	940	340	98
DOMUS ES SOLAR 15T	1416	940	340	98

Note: dimensions and weights refer to the outdoor unit only.

Domus ES Solar is a floor-standing split heat pump system for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor floor-standing unit.
The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C.
The main components of the hydronic system are located in the indoor unit, including a 200l buffer tank with high-surface stainless steel coil for instantaneous production of domestic hot water.

- All-in-One floor-standing indoor unit for clean and tidy installation
- 200l buffer tank with exchanger for instantaneous production of DHW
- Elimination of anti-legionella cycles
- Compact indoor unit, only 600x600mm plan dimensions, and with reduced clear spaces
- Hydraulic, electrical and refrigeration connections from above
- Front access to all components and simplified installation thanks to the cock kit (ACCESSORY)
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room
- Connections for 2 independent direct zones: one for the main heating/air conditioning system, the other for towel warmers
- Easy integration with a secondary backup generator through dedicated hydraulic connections and management via digital signals
- Solar management directly from the machine user interface
- The solar section includes high efficiency circulator, 24-litre expansion reservoir, safety valve, pressure gauge and panel probe.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class		Notes	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)						
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)		
THE CODES LISTED BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR UNIT AND OUTDOOR UNIT													
DOMUS ES SOLAR 5M	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	230/1/50	A++	A/L	(D)	**20155373**
DOMUS ES SOLAR 7M	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	230/1/50	A++	A/L	(D)	**20155375**
DOMUS ES SOLAR 9M	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	230/1/50	A+++	A/L	(D)	**20155376**
DOMUS ES SOLAR 12M	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	230/1/50	A+++	A/XL	(D)	**20155377**
DOMUS ES SOLAR 15M	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	230/1/50	A+++	A/XL	(D)	**20155382**
DOMUS ES SOLAR 12T	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	400/3+N/50	A+++	A/XL	(D)	**20155380**
DOMUS ES SOLAR 15T	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	400/3+N/50	A+++	A/XL	(D)	**20155385**

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
(2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
(3) External air temperature 35°C; water inlet/outlet 23/18°C
(4) External air temperature 35°C; water inlet/outlet 12/7°C
(5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
(6) Tank set temperature 53°C. Values compliant with standard EN 16147
(D) Availability of the material at our warehouse: 15 working days from the order validation date.

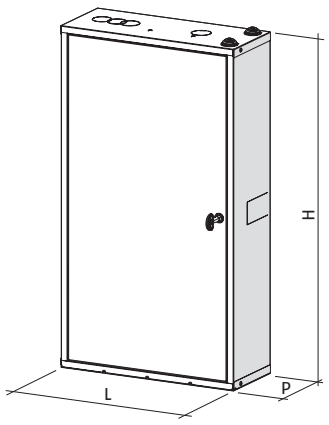
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum absorbed power W	Notes	Code
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	**20130807**
IN-WALL INSTALLATION BOX				(4)	**20130808**

(1) Supplied without in-wall installation box.
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(4) Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

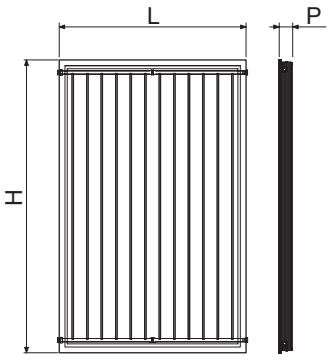
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code
	Gross m²	Net m²	ηo	a1 W/m²K	a2 W/m²K²			
RPS 25/2 EVO	2.3	2.14	0.821	4.41	0.006	200	(1)	**20127134**
RPS 25/4	2.30	2.14	0.802	4.28	0.0064	200	(1)	**20127137**

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page <?>.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41.5
RPS 25/4	2004	1195	85	44

CODE MATCHING TABLE

Description	SET code	Outdoor unit code	Indoor unit code
DOMUS ES SOLAR 5M	20155373	20155167	20155319
DOMUS ES SOLAR 7M	20155375	20155172	20155324
DOMUS ES SOLAR 9M	20155376	20155173	20155330
DOMUS ES SOLAR 12M	20155377	20155174	20155331
DOMUS ES SOLAR 15M	20155382	20155175	20155333
DOMUS ES SOLAR 12T	20155380	20155182	20155334
DOMUS ES SOLAR 15T	20155385	20155184	20155337

ACCESSORIES

Description	Notes	Code
Cock kit	(1)	**20155924**
50 litre inertial buffer tank		**20171999**
2-4-6 kW single-phase heating element kit	(2)	**20155831**
2-4-6 kW three-phase heating element kit	(2)	**20157335**
S hydraulic separator kit (includes secondary circulator)	(3)	**20155826**
L hydraulic separator kit (includes secondary circulator)	(4)	**20155827**
Average temperature circulator kit (towel warmers)		**20155834**
REC10CH locking kit and wall bracket		**20161942**
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit for BAG³ HYBRID on system and heat pump side		**20131752**
ACCESSORIES FOR SOLAR THERMAL		
Solar collector probe kit	(5)	**20008787**
Manual solar degasser kit	(6)	**20026577**
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		**20132142**
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		**20132143**
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		**4383254**

Description	Notes	Code
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		**4383255**
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		**4383085**
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		**4383059**

All accessories are supplied separately as kits and must be installed on site.
(1) mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks , system and towel warmers, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
(2) The power supplied by the heating element depends on the type of wiring performed during installation.
(3) Accessory that can be combined with Domus ES 5, 7 and 9 models. This ACCESSORY must be installed in the unit before connecting it to the system.
(4) Accessory that can be combined with Domus ES 12, 15 models. This ACCESSORY must be installed in the unit before connecting it to the system.
(5) The indoor unit already includes a panel probe.
(6) Use one for each set of manifolds fitted in the highest position.

Hi, COMFORT CONTROLS

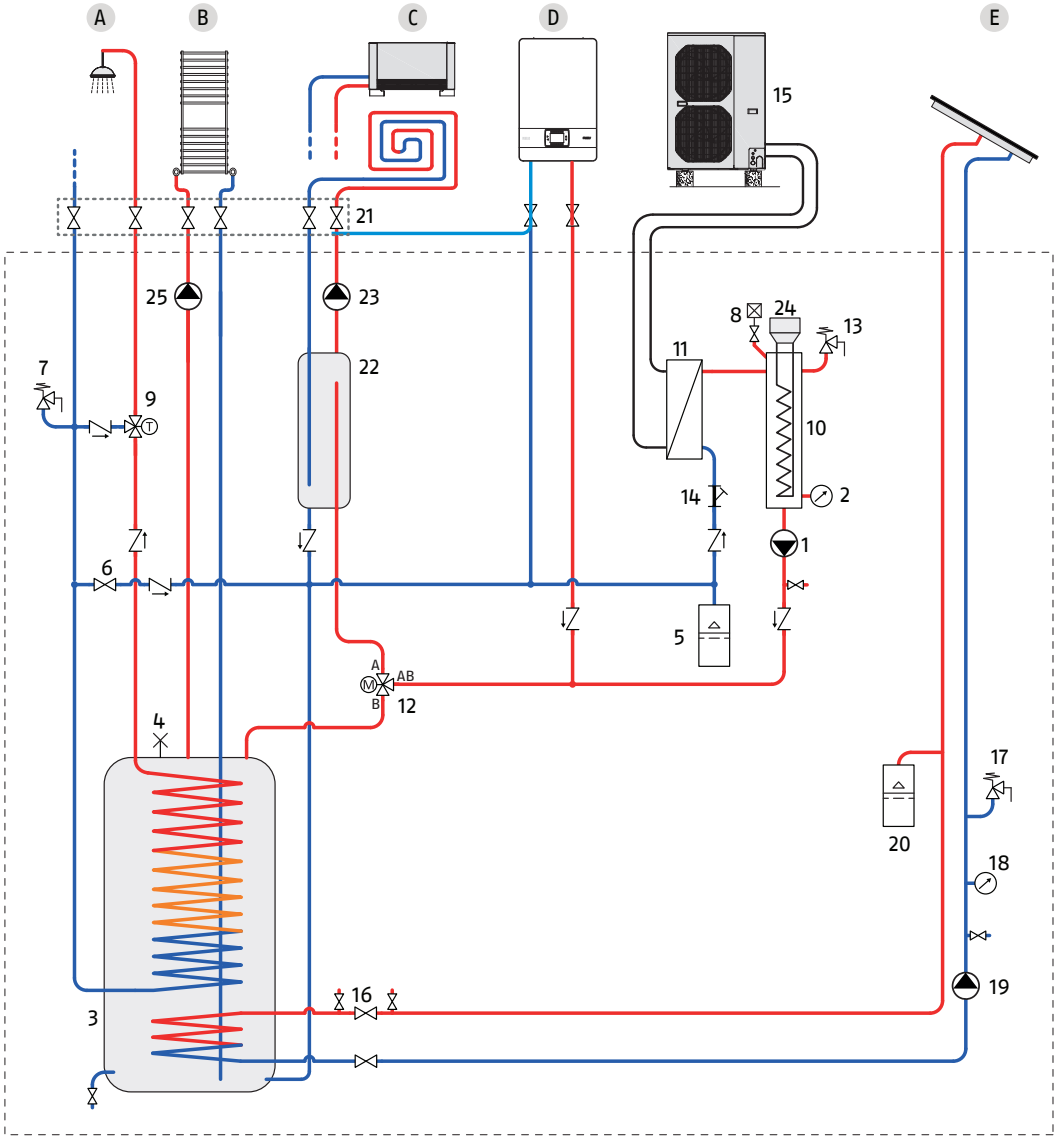
Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

HYDRAULIC DIAGRAM

- The control of a possible external boiler is performed through two digital signals: one for enabling and one for management of a second setpoint in case of domestic water request.
- If a boiler presence is configured, it will only be used as an alternative (backup) to the heat pump.
- If the "integrative heating element" kit is configured, it can be set to operate as an integration or as an alternative to the heat pump.
- The connections to the average temperature circuit for towel warmers are always present, but to operate they require the "Towel warmer circulator kit" Accessory. This can be installed directly inside the unit where the power cable for the pump and the terminals to which the bathroom thermostats can be connected are already in place.
- The average temperature circuit for towel warmers is completely independent from the main system and can therefore be used even when the latter is off. The delivery temperature is equal to the temperature set for the domestic water buffer tank.
- The main system is managed through a digital enabling of a room thermostat. If more than one zone is to be managed, the various room thermostats must be placed in parallel and it is advisable to add the "Hydraulic separator kit" ACCESSORY to the standard equipment.
- Otherwise, it is possible to remotely connect the user interface of the indoor unit in the room, using it also as room thermostat. If more than one zone is to be managed, the BAG³ Hybrid must be added as a distribution system.



A Domestic water users
B Towel warmers
C Main system users
D Secondary generator (boiler)
E Solar panel
1 Primary circulation pump (P1)
2 Pressure gauge
3 Domestic water buffer tank
4 Manual bleeder valve
5 Expansion reservoir
6 System load valve
7 6-bar safety valve
8 Automatic drain valve
9 Thermostatic mixing valve
10 Manifold
11 Plate exchanger
12 3-way diverting valve
13 3-bar safety valve
14 Y-filter
15 Outdoor unit
16 Solar load valve
17 4-bar solar safety valve
18 Solar pressure gauge
19 Solar circuit pump (PSO)
20 Solar expansion reservoir
21 Cock kit *
22 Hydraulic separator **
23 Secondary circulation pump (P2) **
24 2/4/6 kW supplemental heating element ***
25 Towel warmer circulation pump (P3) ****

* Accessory cock kit
** Accessory hydraulic separator kit with secondary circuit circulator
*** Accessory supplemental heating element kit
**** Accessory towel warmer circulator kit

CHILLERS

AIR-WATER MONOBLOC

COLD ONLY

NXC

NXC 017-040

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Air cooled process water chillers

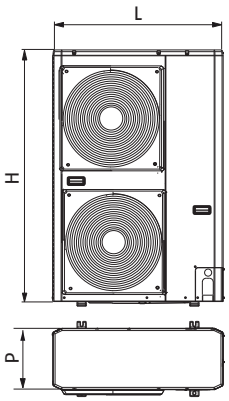
NXC 017-040

Product compliant with EU Ecodesign Regulation 2015/1095 for medium temperature process applications.

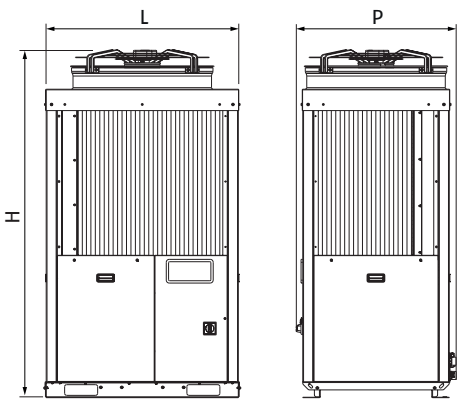
ERP

- Air cooled water chillers for powers from 17 kW to 41 kW with hydronic kit as standard

MODEL 017-021



MODEL 026-040



Description	H mm	L mm	P mm
NXC 017-021	1579	1136	584
NXC 026-040	1790	1002	824

The NXC series units are air cooled water chillers with pumping unit and self-adaptive control, which allows a reduction of the quantity of water in the system.
These features, the wide operating range with outdoor temperatures up to +46°C (017-021 models) and up to +48°C (026- 040 models) make this series ideal for applications where extreme compactness, simplicity and speed of installation are required.
The unit is silent thanks to the high efficiency scroll compressor and the low noise axial fan.

- Plug & Play solution with pump on board the machine
- Easy maintenance by removing the service panels
- Microprocessor-based self-adaptive control system.

TECHNICAL DATA

Description	Output (1) kW	EER (1)	SEPR (2)	Notes	Code
NXC 017	22.70	3.83	2.79	(D)(3)	**20120382**
NXC 021	29.50	3.88	2.92	(D)(3)	**20120383**
NXC 026	38.40	3.94	2.97	(D)(3)	**20120384**
NXC 033	45.40	4.03	2.89	(D)(3)	**20120385**
NXC 040	57.00	3.47	2.96	(D)(3)	**20120386**

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) Reference standard EN 14511-3:2013 for delivery water temperature 18°C with water thermal gradient of 5°C; inlet air temperature 35°C.
(2) Reference standard EU 2015/1095 for delivery water temperature conditions -8°C with water thermal gradient of 5°C (medium temperature process applications).

Conditions for supply:
(D) Availability of the material at our warehouse: 30 working days from the order validation date.
(3) For 7000 ACI PLUS tank accessories, refer to the dedicated section.

WALL-HUNG BOILERS

CONDENSING WALL-HUNG BOILERS

KIS

INDOOR

FAMILY

FAMILY 25 KIS (3,6-20,0/3,6-25,0 kW)
FAMILY 30 KIS (4,9-25,0/4,9-30,0 kW)
FAMILY 35 KIS (4,9-32,0/4,9-34,6 kW)

NEW

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RESIDENCE

RESIDENCE 25 KIS (3,6-20,0/3,6-25,0 kW)
RESIDENCE 30 KIS (4,9-25,0/4,9-30,0 kW)
RESIDENCE 35 KIS (4,9-30,0/4,9-34,6 kW)
RESIDENCE 40 KIS (4,9-30,0/4,9-40,0 kW)

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START

START 25 KIS (3,1-20,0/3,1-25,0 kW)
START 25 KIS (3,1-20,0/3,1-25,0 kW)
START 30 KIS (3,95-25,0/3,95-30,0 kW)

NEW

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START AR

START AR 25 KIS (7,5-25,0/7,5-25,0 kW)

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OUTDOOR

RESIDENCE EXTERNA CONDENS (*)

RESIDENCE EXTERNA CONDENS 25 KIS
(3,1-20,0/3,1-25,0 kW)
RESIDENCE EXTERNA CONDENS 32 KIS
(3,7-30,0/3,7-32,0 kW)

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IS

INDOOR

FAMILY

FAMILY 25 IS (3,6-20,0/3,6-25,0 kW)
FAMILY 35 IS (4,9-32,0/4,9-34,6 kW)

NEW

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RESIDENCE

RESIDENCE 20 IS (3,6-20,0/3,6-20,0 kW)
RESIDENCE 35 IS (4,9-30,0/4,9-34,6 kW)

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START

START 15 IS (3,1-20,0/3,1-25,0 kW)
START 25 IS (3,1-20,0/3,1-25,0 kW)

NEW

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Heating/Domestic Water heat output
KIS Combined, Heating and Instant DHW production
IS Heating only
(*) Availability until stocks last.

CONDENSING WALL-HUNG BOILERS

INDOOR

BIS

FAMILY AQUA CONDENS

FAMILY AQUA CONDENS 3.5 BIS (3,5-35,0 kW)

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START AQUA CONDENS

START AQUA CONDENS 25/45 BIS (6,0-25,0 kW)
START AQUA CONDENS 25/60 BIS (6,0-25,0 kW)

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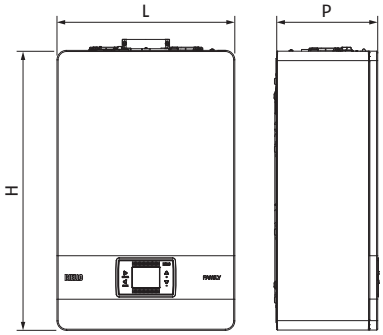
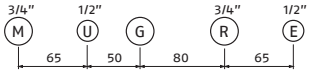
Heating/Domestic Water heat output
BIS Combined, Heating and DHW production with boiler

Wall-hung condensing boilers

Family NEW



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



ERP

- Stainless steel primary heat exchanger, rugged and compact
- Combi and heating only models, with indoor, in-wall and partially covered intallations
- High performance DHW heat exchanger
- Self-adaptive electronic combustion control
- Designed to support Hydrogen and NG mixture up to 20%
- Class 6 NOx
- Combi and heating only models compatible with NG and LPG. 25 KIS and 25 IS models are also certified for air-propane mixture

Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	40
FAMILY 35 KIS	740	470	350	40
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

The new Family is the Riello solution for the most demanding user. The primary heat exchanger, made of stainless steel with frontal access to the combustion chamber, ensures maximum efficiency and reliability, moreover the new optimized DHW heat exchanger guarantees exceptional comfort and the best energy efficiency class (A class).
FAMILY is available in 3 different output 25, 30, 35 kW, with combi (KIS) and heating only (IS) models.

- ACC self-adaptive electronic combustion control
- Possibility of direct integration in hybrid systems using built-in REC10 control and ModBus protocol
- Innovative built-in air-filtering system
- New color display panel that can be wall-mounted with room unit function (ErP class: V)
- Smart system filling function
- 10 litre expansion tank
- Optimized layout with safety valve and siphon inside the boiler
- Easy to install and wide range of accessory available
- High head modulating circulator pump with very low consumption
- Modulation ratio 1:8
- 93% seasonal energy efficiency on 25 kW models (KIS and IS) and 94% on 30-35 kW (KIS), 35 kW (IS) models
- Flue gases flange as standard with dedicated flue system
- Clapet valve as standard
- Thermoregulation as standard using outdoor temperature sensor (optional).
- Possibility of in-wall installation (25 KIS) and outdoor in partially covered places (IPXD5D)
- Assembly template, hydraulic connections and power supply cable provided.

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (50°/30 °C) %	Useful efficiency 30% Pn (return 30 °C) %	DHW production ΔT 25° l/min	Energy efficiency class		Notes	Code
COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION								
FAMILY 25 KIS	3.6-20.0/3.6-25.0	106.6	109.1	15.1	A	A	(1)	**20187642**
FAMILY 30 KIS	4.9-25.0/4.9-30.0	107.5	109.5	18.1	A	A	(1)	**20187644**
FAMILY 35 KIS	4.9-32.0/4.9-34.6	107.4	109.5	20.1	A	A	(1)	**20187645**
ONLY HEATING VERSION								
FAMILY 25 IS	3.6-20.0/3.6-25.0	106.6	109.1	/	A	-	(1)	**20187643**
FAMILY 35 IS	4.9-32.0/4.9-34.6	107.5	109.5	/	A	-	(1)	**20187646**

(1) The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory).

ACCESSORIES

Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit (only model 25 KIS)	(1)	**20082310**
Kit with system and gas taps for recessed installation (only model 25 KIS)		**20137668**
HYDRAULIC ACCESSORIES		
First zone management kit (MIX or DIR zone)	(2)	**20132795**
Additional zone management kit (MIX or DIR zone)	(2)(3)	**20132796**
Kit for managing second pump or zone valves		**20062614**
Condensate evacuation pump		**20097192**
Immersion probe for remote storage cylinder (for heating only version)		**1220599**
Solar diverter valve kit for instant wall-hung combined boilers		**20035644**
Compact polyphosphate doser kit		**20191518**
Compact magnetic filter		**20191517**
COMPLEMENTARY ACCESSORIES		
Boiler interface wall bracket closure kit		**20161942**
Anti-freeze resistors kit for combi versions		**20193278**
Anti-freeze resistors kit for heating only versions		**20193279**
External probe		**1220559**
Hydraulic low cover available only for boilers with depth = 275 mm	(6)	**20191519**
SPECIFIC FLUES (*)		
Wall collector Ø60/100 mm	(4)	**20129175**
Fixed twin system Ø80 mm kit		**20129765**
Telescopic wall collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Vertical connection Ø60/100 mm	(4)	**20129174**
90° boiler start bend kit Ø60/100 mm	(5)	**20129172**
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		**20190475**
Splitter device kit B23 Ø80 mm for in-wall installation box		**20129768**
Flue gas exhaust kit B23 Ø80 mm		**20129769**

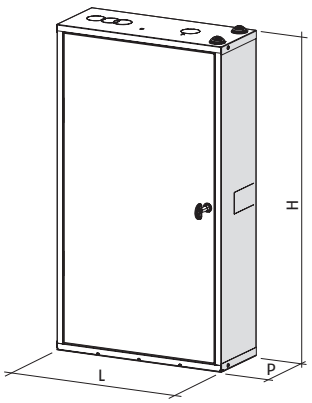
(1) Unit supplied complete with door.
(2) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ Hybrid.
(3) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.
(4) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.
(5) Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.
(6) Compatible with FAMILY 25 KIS and FAMILY 25 IS.
(*) Dedicated flue gases accessories, compatible with the Family flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems"

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG³ HYBRID 1D	1 direct zone	(1)(2)	**20130805**
BAG³ HYBRID 2D	2 direct zone	(1)(2)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	**20130807**
IN-WALL INSTALLATION BOX		(4)	**20130808**

(1) Supplied without in-wall installation box
(2) Equipped as standard with limit thermostat for low temperature systems
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems
(4) In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID

OVERALL DIMENSION



Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	17
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	Code
Taps kit for BAG³ HYBRID system side and heat pump	**20131752**

Hi, COMFORT CONTROLS

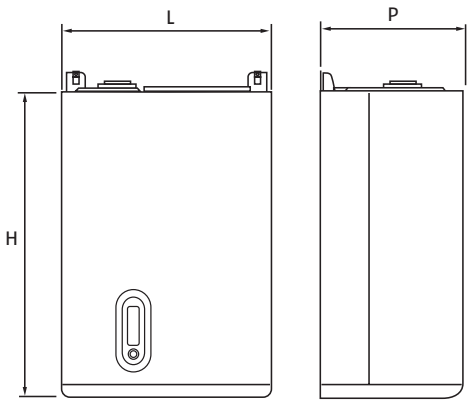
Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

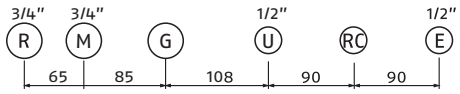
(*) Only ON/OFF connection with BAG³ HYBRID.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary for internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

Condensing wall-hung boilers

Family Aqua Condens



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET
RC-RECIRCULATION



ERP

- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing heat exchanger in aluminium, with premix burner
- Combi model with built-in 60-liters DHW tank in stainless steel

Description	H mm	L mm	P mm	Net weight kg
FAMILY AQUA CONDENS 3.5 BIS	1015	600	450	72

Family Aqua Condens is a wall-hung boiler that guarantees an excellent comfort in the DHW production thanks to a built-in 60-liters DHW storage tank in stainless steel. The Riello heat exchanger, manufactured 100% aluminium, ensures high efficiency and long life, while reducing polluting emissions to a minimum.
Family Aqua Condens is available with outputs from 3.5 to 35 kW.

- Modulating ratio 1:10 (minimum output of 3.5 kW) which allows the boiler to meet all heating requirements
- "Range Rated" certification which allows adapting the rated output of the boiler to the thermal requirements of the installation
- High efficiency circulator (EEI ≤ 0,20)
- Remote alarm which allows the reporting of the boiler lockout status
- Special Family functions: Comfort Button, Memory Button, Touch&Go Function, Smart semi-automatic Filling System
- Boilers are equipped with: mounting template, hydraulic connections, wiring and LPG conversion kit.
- External probe supplied as standard.

TECHNICAL DATA

Description	Heat input Heating/DHW min - max kW	Useful efficiency Pn (50°/30 °C) %	Useful efficiency 30% Pn (return 30 °C) %	Tank capacity l	Fuel	Energy efficiency class		Code
ROOM-SEALED - HEATING AND DHW PRODUCTION								
FAMILY AQUA CONDENS 3.5 BIS	3.5-35.0	105.5	108.0	60.0	NG	A	A	**20021509**

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	**20063873**
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	**20101747**
ELECTRICAL ACCESSORIES	
Family Remote Control (REC06) (with electronic interface board)	**20165771**
Interface board ITRF11	**20164477**
Remote alarm kit	**20165627**
Room sensor kit	**20163783**
Zone valves management kit	**20165142**
HYDRAULIC ACCESSORIES	
Central heating taps	**4047476**
Central heating taps with filter	**4047475**
Condensate evacuation pump	**20097192**
DHW recirculation kit (Aqua model)	**4047994**
MECHANICAL ACCESSORIES	
Hydraulic connection cover	**4047505**
Mounting template kit	**4047440**

Hi, COMFORT CONTROLS

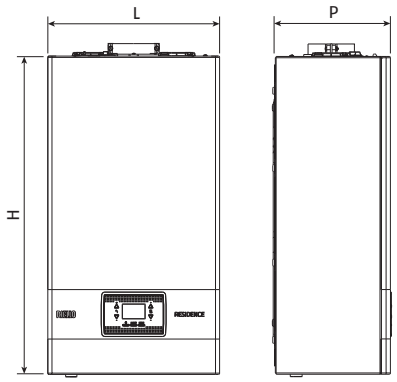
Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

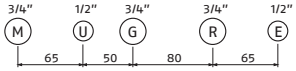
(*) Possibility of connection via OTBus or in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable OTBus connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356. For operation via OTBus, the code 20164477 "ITRF11 interface card" is required.

Wall-hung condensing boilers

Residence



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



ERP

- Stainless steel primary heat exchanger
- Self-adaptive electronic combustion control
- Class 6 NOx
- Combi and heating only models, NG and LPG compatible

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 40 KIS	740	420	350	40
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Overall height of the SRD device: 822 mm

Residence is the Riello wall-hung condensing boiler that is ideal as a replacement and for new installations.
The primary heat exchanger, which is made of stainless steel on the inside and with front access to the combustion chamber, provides maximum efficiency and reliability over time.
Residence comes with outputs of 20, 25, 30, 35 and 40 kW, in instantaneous combi or heating only versions.

- ACC adaptive electronic combustion control
- Range Rated type-approval
- New simple and intuitive digital control panel with backlit display
- Low consumption modulating circulator
- Modulation ratio 8:1
- Flue gases flange as standard with dedicated flue system
- Check valve and SRD device as standard
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory
- Possibility also of recessed installation (model 25 KIS) and outdoors in partially protected places (IPX5D)
- Easy to install and a wide range of accessories
- Integrated management of up to 2 direct or mixed circuits (with BAG³ HYBRID accessories or zone management kit)

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (50°/30 °C) %	Useful efficiency 30% Pn (return 30 °C) %	DHW production ΔT 25° l/min	Energy efficiency class		Notes	Code
COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION								
RESIDENCE 25 KIS	3.6-20.0/3.6-25.0	106.2	108.4	15.1	A	A	(1)	**20139525**
RESIDENCE 30 KIS	4.9-25.0/4.9-30.0	106.0	108.1	18.1	A	A	(1)	**20148496**
RESIDENCE 35 KIS	4.9-30.0/4.9-34.6	106.9	108.2	20.8	A	A	(1)	**20139527**
RESIDENCE 40 KIS	4.9-30.0/4.9-40.0	106.9	108.2	24.1	A	A	(1)	**20139530**
ONLY HEATING VERSION								
RESIDENCE 20 IS	3.6-20.0/3.6-20.0	106.2	108.4	-	A	-	(1)	**20139526**
RESIDENCE 35 IS	4.9-30.0/4.9-34.6	106.9	108.2	-	A	-	(1)	**20139528**

(1) The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

ACCESSORIES

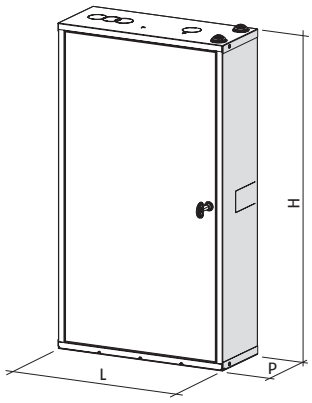
Description	Notes	Code
ELECTRICAL ACCESSORIES		
Kit for managing second pump or zone valves		**20062614**
Anti-freeze resistors kit for combi versions		**20145304**
Anti-freeze resistors kit for heating only versions		**20145305**
External probe		**1220559**
Immersion probe for remote storage cylinder (for heating only version)		**1220599**
SPECIFIC FLUES (*)		
Wall collector Ø60/100 mm		**20129175**
Telescopic wall collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Adaptor kit B23 Ø80 mm		**20129769**
90° boiler start bend kit Ø60/100 mm		**20129172**
Splitter device kit B23 Ø80 mm for in-wall installation box		**20129768**
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		**20190475**
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Fixed splitter system kit Ø80 mm		**20129765**
Vertical connection manifold kit Ø60/100 mm	(2)	**20129174**
HYDRAULIC ACCESSORIES		
Condensate evacuation pump	(3)	**20097192**
High head circulator		**20105883**
Compact magnetic filter kit		**20191517**
Compact polyphosphates doser kit		**20191518**
First zone management kit (MIX or DIR zone)	(4)	**20132795**
Additional zone management kit (MIX or DIR zone)	(4)(5)	**20132796**
Connections kit with heating system and gas taps (for IS models)		**20133517**
Connections kit with heating system, domestic hot water and gas taps (for IS models)		**20133516**
Connections kit with domestic hot water and gas taps (for KIS models)		**20132005**
Connections kit with gas tap (for IS models)		**20133386**
Kit with system and gas taps for recessed installation (only model 25 KIS)		**20137668**
Solar diverter valve kit for instantaneous wall-hung combi boilers		**20025113**
MECHANICAL ACCESSORIES		
In-wall installation unit (only model 25 KIS)	(1)	**20082310**

(1) Unit supplied complete with door
(2) Code necessary for vertical discharge with flue system ø60/100. Accessory already included in the kit 20129177
(3) Code necessary for horizontal discharge with flue system ø60/100. Accessory already included in the kit 20129175 and 20129176
(4) allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ HYBRID
(5) The first zone management kit should always be present. The boiler can manage up to a maximum of 2 zones in total.
(*) Dedicated flue gases accessories, compatible with the Residence flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG³ HYBRID 1D	1 direct zone	(1)(2)	**20130805**
BAG³ HYBRID 2D	2 direct zone	(1)(2)	**20130806**
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	**20130807**
IN-WALL INSTALLATION BOX		(4)	**20130808**

(1) Supplied without in-wall installation box
(2) Equipped as standard with limit thermostat for low temperature systems
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems
(4) In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID



Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	17
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	Code
Taps kit for BAG³ HYBRID system side and heat pump	**20131752**

Hi, COMFORT CONTROLS

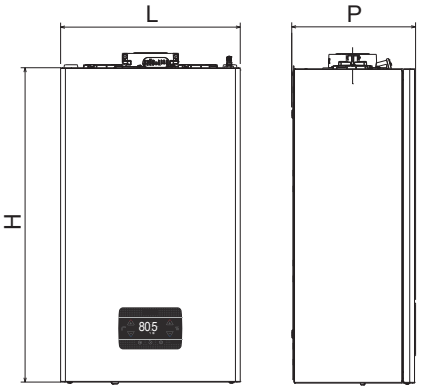
Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

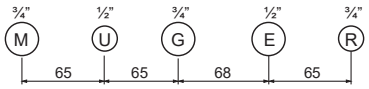
(*) Only ON/OFF connection with BAG³ HYBRID.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356.

Wall-hung condensing boiler

Start NEW



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



ERP

- New stainless steel primary heat exchanger, compact and robust
- Combined and heating-only models, indoor, built-in and outdoor in partially protected locations
- Dimensions among the most compact in the segment (width of only 400 mm), also ideal for small wall units
- Hydraulic unit with sequence standard DIN connections
- Designed to operate with mixtures of natural gas and hydrogen, up to a maximum of 20%
- Class 6 NOx

Description	H mm	L mm	P mm	Net weight kg
START 25 KIS	700	400	275	28.5
START 30 KIS	700	400	275	30.0
START 25 IS	700	400	275	27.5
START 15 IS	700	400	275	27.5

START is the new proposal of Riello condensing boilers for small and medium sized households. It has been completely renewed from a technological and functional point of view.
START is available in 3 sizes of power 15, 25, 30 kW, in combined (KIS) and heating-only (IS) versions.
One of the distinguishing features of the new START is the innovative digital control panel with touch buttons designed with an emphasis on ease of use.

- High-efficiency sanitary exchanger developed by Riello
- Modern and intuitive touchscreen HMI, with representative icons and capacitive buttons with acoustic ""buzzer"" to confirm
- Modern and linear design with under-boiler lower connection cover available as an accessory for optimal aesthetic integration
- Sanitary specific electronic functions: sanitary delay, anti-pendulum function and smart fan
- Hydraulic group with DIN standard sequence
- Low-consumption circulator (IEE≤0.20) 7 m high head available as an accessory
- Easy installation, easy integration even in small spaces and easy replacement, thanks to a wide range of accessories optionally available
- Modulation ratio 1:8
- Easy maintenance and cleaning of the combustion chamber thanks to frontal access to the exchanger
- 93% seasonal efficiency
- 8 litre lateral expansion tank
- Standard flue gas flange with dedicated flue system
- Temperature control as standard in combination with the external probe, available as an accessory
- Possibility of built-in installation (model 25 KIS and 30 KIS) and outside in partially protected places (IPX5D)
- Mounting crossbar already integrated in the boiler and power supply cable included
- Natural gas operation as standard with possibility of conversion to LPG (G31) and propane air through accessories. This modification must be carried out by the installer or by the technical assistance service.
- IPX5D electrical protection

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (50°/30 °C) %	Useful efficiency 30% Pn (return 30 °C) %	DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Note	Code
COMBI HEATING AND ISTANTANEOUS DOMESTIC HOT WATER VERSION									
START 25 KIS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	14.3	NG	A	A	(1)	**20197878**
START 25 KIS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	14.3	LPG	A	A	(1)	**20197880**
START 30 KIS	3.95÷25.0/3.95÷30.0	107.1-103.6	108.8	17.2	NG	A	A	(1)	**20197879**
HEATING ONLY VERSION									
START 15 IS	3.1÷15.0/3.1÷25.0	105.7-98.0	109.6	-	NG	A	-	(1)	**20187773**
START 25 IS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	-	NG	A	-	(1)	**20187774**

(1) Outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory).

ACCESSORIES

Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit	(1)	**20161604**
Crossbar for in-wall installation		**20191887**
MECHANICAL ACCESSORIES		
Air filter	(2)	**20190324**
Hydraulic low fittings cover		**20191519**
Dummy boiler Start 25 KIS		**20191885**
Wall mounting frame 1 pc.		**20191891**
Wall mounting frame 5 pcs.		**20191892**
HYDRAULIC ACCESSORIES		
Compact polyphosphate doser kit		**20191518**
Compact magnetic filter		**20191517**
High residual pump 7 m		**20189142**
Crossover kit (DIN vs Riello)	(3)	**20191890**
Connection kit with heating system, domestic water and gas cocks (for KIS models)		**20133516**
Connection kit with heating system and gas cocks (for IS models)		**20133517**
Connection kit with domestic water and gas cocks (for KIS models)		**20132005**
Connection kit with gas cock (for IS models)		**20133386**
Condensate booster pump kit		**20097192**
Well probe for remote heater (for heating only version)		**1220599**
Solar diverter valve kit for instant wall-hung combined boilers		**20035644**
COMPLEMENTARY ACCESSORIES		
Board BE09 with double multi-function relay	(6)	**20192808**
Antifreeze heaters -15 °C	(7)	**20191888**
External probe		**1220559**
Building site kit with analogue hydrometer		**20191520**
Limit thermostat for low temperature installations		**1220639**
SPECIFIC FLUES		
Fixed split system kit Ø80 mm		**20129765**
Ø80 mm clapet with condensate trap		**20164664**
Ø80/125 mm clapet with condensate trap		**20164662**
Wall-hung collector Ø60/100 mm		**20129175**
Telescopic wall-hung collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Vertical connection stub pipe kit Ø60/100 mm	(4)	**20129174**
90° bend kit Ø60/100 mm for boiler start	(5)	**20129172**
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		**20134830**
Adapter kit B23 Ø80 mm		**20129769**
Split kit B23 Ø80 mm for in-wall installation box		**20129768**
Compact swelling kit Ø60/100 - Ø80/80		**20190475**

Description	Notes	Code
GAS TRANSFORMATION		
Propane air conversion kit (25 KIS - IS)		**20192718**
Propane air conversion kit (30 KIS)		**20192719**
LPG conversion kit (25 KIS - IS)		**20192715**
LPG conversion kit (30 KIS)		**20192717**

(1) Unit supplied with door.
(2) Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
(3) Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of Start boilers with previous boilers with Riello standard hydraulic connection sequence.
(4) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.
(5) Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.
(6) Ideal board for managing additional circulator or zone valve and alarm remote kit.
(7) The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible) included in the offer.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(*) Only ON/OFF connection with BAG³ HYBRID.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary for internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

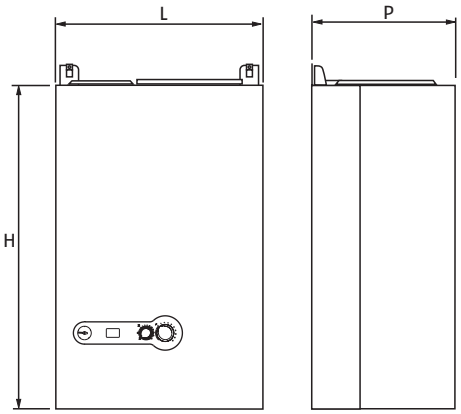
Smart key with possible management via APP

Image	Description	Notes	Code
	Hi, Comfort K100	(1)	**20168501**

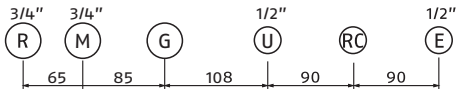
(1) Availability during 2022.

Condensing wall-hung boilers

Start Aqua Condens



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



ERP

- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing aluminum heat exchanger and premix burner
- Combi model with 45 or 60 liters stainless steel DHW tank

Description	H mm	L mm	P mm	Net weight kg
START AQUA CONDENS 25/45 BIS	940	600	450	66
START AQUA CONDENS 25/60 BIS	940	600	450	70

Start Aqua Condens is a condensing wall-hung boiler featuring a 45 or 60 liters stainless steel DHW tank.
The Riello heat exchanger, aluminum made, guarantees efficiency, durability, high head and polluting emissions reduction.
Start Aqua Condens is available with 25 kW output.

- High efficiency circulator (EEI ≤ 0,20)
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (spare-part optional), to be mounted by the technical assistance

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (50°/30 °C) %	Useful efficiency 30% Pn (return 30 °C) %	DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
ROOM SEALED – HEATING AND DHW PRODUCTION WITH TANK								
START AQUA CONDENS 25/45 BIS	6.0-25.0	105.0	107.1	14.3	NG	A	A	**20142452**

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	**20063873**
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	**20101747**
COMBUSTION ACCESSORIES	
LPG conversion kit	**20002606**
ELECTRICAL ACCESSORIES	
External probe	**1220559**
Zone valves management kit	**20000785**
HYDRAULIC ACCESSORIES	
Central heating taps	**4047476**
Central heating taps with filter	**4047475**
Condensate evacuation pump	**20097192**
DHW recirculation kit (Aqua model)	**4047994**
High head pump kit	**20105879**
MECHANICAL ACCESSORIES	
Hydraulic connection cover	**4047505**
Mounting template kit	**4047440**

Hi, COMFORT CONTROLS

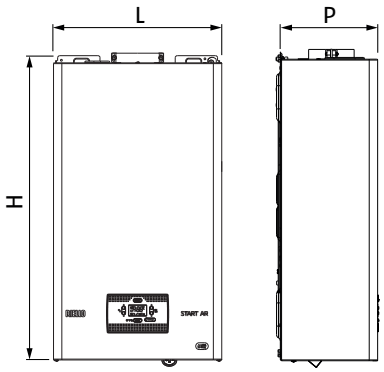
Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

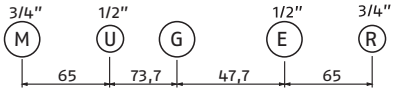
(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
(1) Hi, Comfort G100-W included to connect to the home Wi-Fi.
(2) Compatible with RF connection to the Hi, Comfort G100-W Cod. 20193355 (accessory not included, necessary to connect to the home Wi-Fi).

Wall-hung condensing boilers

Start AR



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
START AR 25 KIS	715	405	250	33

- In conformity with Directive 2009/125/CE
- Combi models
- Low N0x emissions
- Innovative post heat-exchanger in stainless steel material

New START AR is the condensing boiler designed specifically to operate with high temperature systems and therefore with radiator systems. Furhermore improved in terms of performances it's available with 25 kW outputs with low N0x emissions < 56 mg/kWh.

- New digital interface
- Very compact dimensions
- Innovative gas-air combustion system
- DIN hydraulic connection
- Cooled burner
- Low consumption circulator (IEE ≤0.20)
- Climatic adjustment managed directly from the control box
- Fixing crossbar, electrical power cable supplied as standard
- Hydraulic connection available as accessories
- Electric protection level IPX5D

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (80°/60 °C) %	Useful efficiency 30% Pn (return 30 °C) %	DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
VERSION WITH GAS-TIGHT CHAMBER AND FORCED DRAUGHT-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER								
START AR 25 KIS	7.5-25.0/7.5-25.0	95.8	101.4	14.3	NG	B	A	**20171062**
START AR 25 KIS	7.5-25.0/7.5-25.0	95.8	101.4	14.3	LPG	B	A	**20176940**

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Hydraulic connections kit		**20114510**
Central heating taps		**4047476**
Central heating taps with filter		**4047475**
Connections kit with heating system, domestic hot water and gas taps		**20133516**
Connections kit with domestic hot water and gas taps		**20132005**
Magnetic filter and polyphosphates doser kit		**20135495**
Polyphosphates doser kit		**20135496**
Condensate evacuation pump		**20097192**
Ultra high head pump (7 metres)		**20178827**
Solar diverter valve kit for instant wall-hung combined boilers		**20035644**
ELECTRICAL ACCESSORIES		
External probe		**1220559**
Frost protection kit		**20183138**
MECHANICAL ACCESSORIES		
Hydraulic fittings cover		**20012594**
Upper cover		**20012595**
LPG transformation kit		**20182988**
In-wall box	(1)	**20082309**
FLUES AND INTAKE AIR (*)		
Adjustable splitter device kit from Ø60/100 mm to ø80/80 mm		**20134830**
Wall collector Ø60/100 mm		**20129175**
Telescopic wall collector Ø60/100 mm		**20129176**
Vertical collector Ø60/100 mm		**20129177**
Vertical connection manifold kit Ø60/100 mm	(2)	**20129174**
90° boiler start bend kit Ø60/100 mm	(3)	**20129172**
Adaptor kit B23 Ø80 mm		**20129769**

(1) Unit supplied complete with door.
(2) Code necessary for vertical discharge with flue system ø60/100. Accessory already included in the kit 20129177.
(3) Code necessary for horizontal discharge with flue system ø60/100. Accessory already included in the kit 20129175 and 20129176.
(*) Dedicated flue gases accessories, compatible with the Start AR flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

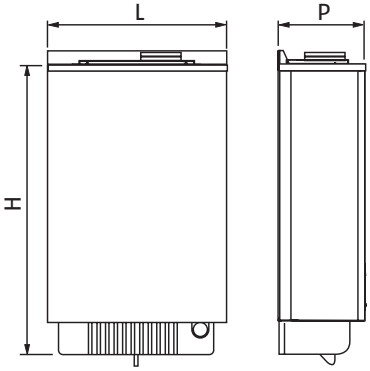
(*) Only ON/OFF connection with BAG³ HYBRID.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable OTBus connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356.

Wall-hung condensing boilers

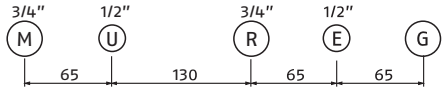
Residence Externa Condens

ERP

- Compliant with Directive 2009/125/EC
- Low polluting emissions
- Aluminium condensing, with premixed burner
- Heating-only models and combined models for outdoor installation



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE EXTERNA CONDENS 25 KIS	785	553	275	44
RESIDENCE EXTERNA CONDENS 32 KIS	785	553	275	46

Residence Externa Condens is specially designed for outdoor installation in a partially protected place.
The new primary heat exchanger fully made of aluminium with front accessibility to the combustion chamber ensures better efficiency and durability. Residence Externa Condens is available with output from 25 to 32 kW.

- Remote control panel supplied as standard
- 1:8 modulation ratio that allows the boiler to respond to all heat requests
- Self-modulating circulator, low consumption (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic water circuits down to -5 °C with the possibility of extending the protection down to -15 °C (optional)
- "Winter with Pre-heating" function: allows you to keep the domestic water exchanger at the right temperature, reducing the waiting time during extraction (instantaneous combined models)
- Possible "open air" installation by means of the special sealed kit (optional)
- Thermoregulation as standard in the board in combination with the external probe (optional)
- Assembling template, hydraulic connection and power cable included
- IPX5D electrical protection level

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (50°/30°C) %	Useful efficiency 30% Pn (return 30°C) %	DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION								
RESIDENCE EXTERNA CONDENS 25 KIS	3.1-20.0/3.1-25.0	105.0	109.6	14.3	NG	A	A	**20096734**
RESIDENCE EXTERNA CONDENS 32 KIS	3.7-30.0/3.7-32.0	104.7	109.5	18.3	NG	A	A	**20096735**

NOTE: availability until stocks last.

ACCESSORIES

Description	Code
Heating system tap kit	**4047252**
Antifreeze heater kit KIS version	**20164827**
Antifreeze heater kit IS version	**20164828**
Open-air installation kit	**20011638**
External probe	**1220559**
Condensate evacuation pump	**20097192**
Kit for managing second pump or zone valves	**20062614**
Immersion probe for remote storage cylinder (for heating only version)	**1220599**
Solar diverter valve kit for instant wall-hung combined boilers	**20035644**
LPG conversion kit Residence Externa Condens 25 KIS-20 IS	**20102669**
LPG conversion kit Residence Externa Condens 32 KIS	**20102674**
Propane air transformation kit Residence Externa Condens 25 KIS	**20102673**
Caplet kit	**20162838**

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(*) Possibility of connection via OTBus or in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable OTBus connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356.

STANDARD-EFFICIENCY WALL-HUNG BOILERS

INDOOR

KI

MONOTHERMIC

START LN

START 24 KI LN (10,7-26,7/9,0-26,7 kW)
START 28 KI LN (14,0-31,9/9,0-31,9 kW)

page 162

START

START 28 KI (8,7-28,6 kW)

page 164

BITHERMIC

FASTECH

FASTECH 24 KI (8,0-24,6 kW)

page 166

KIS

MONOTHERMIC

START

START 24 KIS (7,5-24,0 kW)
START 28 KIS (11,0-27,9 kW)
START 35 KIS (10,8-34,9 kW)

page 164

BITHERMIC

FASTECH

FASTECH 24 KIS (7,5-23,9 kW)

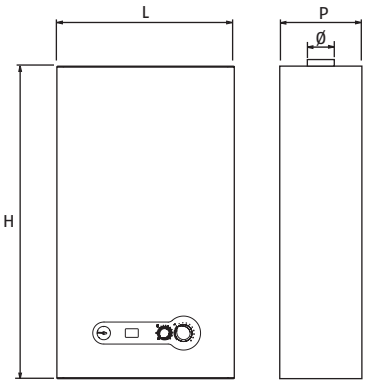
page 166

KI Combi: Heating and DHW Production – conventional flue
KIS Combi: Heating and DHW Production – room sealed

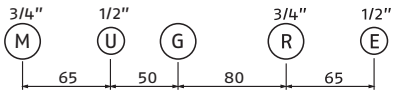
* The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

Standard wall-hung boilers

Start LN



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



ERP LOW NOx

- Open chamber
- Combi model
- Only for replacement on CCR
- Low NOx emissions

Description	H mm	L mm	P mm	Ø mm	Net weight kg
START 24 KI LN	740	400	332	130	30
START 28 KI LN	740	450	332	140	32

Start LN has a simple modern that is ideal for heating and the production of domestic hot water in small and medium size households. Start LN is available with 24 and 28 kW outputs with low NOx emissions <56 mg/kWh.

- Double heat exchanger: domestic hot water production with plate heat exchanger to minimise the formation of limescale
- CTR system for a rapid attainment of the desired comfort and a reduction in consumption, and temperature changes in the heating bodies
- 8 litre expansion tank
- Low consumption circulator (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic hot water circuits down to 0 °C
- Thermoregulation as standard in boiler board in combination with the outdoor temperature sensor (optional)
- Can interface with the Remote Control Panel
- Hydraulic connections available as an accessory kit
- Operation with methane as standard with the possibility of conversion to LPG (G31), this modification is done by the installer or the technical assistance centre
- Electric protection level IPX5D

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (80°/60 °C) %	Useful efficiency 30% Pn (rit. 50 °C) %	DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
VERSION WITH OPEN CHAMBER-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER								
START 24 KI LN	10.7-26.7/9.0-26.7	90.1	89.2	13.8	NG	C	B	**20151434**
START 28 KI LN	14.0-31.9/9.0-31.9	90.5	89.5	16.6	NG	C	B	**20151435**

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	**20063873**
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	**20101747**
COMBUSTION ACCESSORIES	
LPG conversion kit for Start 24 KI LN model	**20155079**
LPG conversion kit for Start 28 KI LN model	**20155101**
ELECTRICAL ACCESSORIES	
External probe	**1220559**
Kit for managing second pump or zone valves	**20062614**
HYDRAULIC ACCESSORIES	
Central heating taps	**4047476**
Central heating taps with filter	**4047475**
High head pump kit	**20105879**
Polyphosphates doser kit	**20135496**
Magnetic filter and polyphosphates doser kit	**20135495**
Solar diverter valve kit for instantaneous wall-hung combi boilers	**20025113**
Top hydraulic fittings kit	**20008795**

Hi, COMFORT CONTROLS

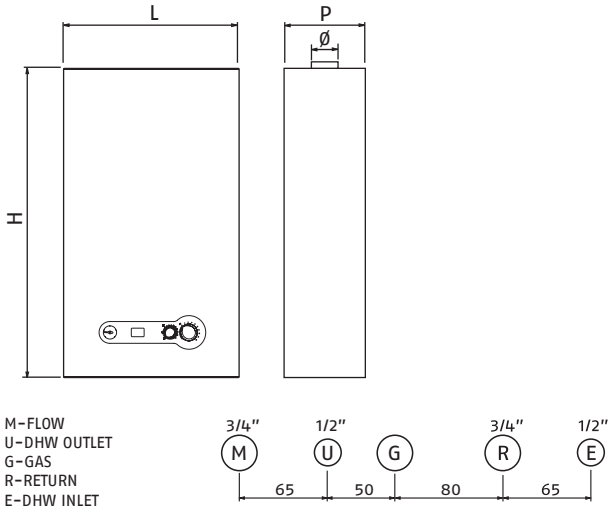
Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(*) Possibility of connection via OTBus or in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable OTBus connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356.

Standard efficiency wall-hung boilers

Start



- Conventional flue and room-sealed models
- Models: heating-only and combi
- Digital display

Description	H mm	L mm	P mm	Ø mm	Net weight kg
START 24 KIS	715	405	248	-	31
START 28 KIS	740	400	328	-	33
START 35 KIS	780	505	328	-	42
START 28 KI	740	450	328	140	30

The Start range features a modern and functional design completed by a digital screen including essential information. The stylish casing, the compact size and special finishing details allows its installation into any setting.
The new Start is available both conventional flue and room sealed with 24, 28 and 35 kW output with heating only or heating and DHW production models.

- Double-heat exchanger (CH and DHW stainless steel plate heat-exchangers)
- CTR system to achieve faster desired comfort and reduce fuel consumption
- Frost protection function which protects the heating and DHW circuits down to -3 °C, with the possibility of extending protection down to -10 °C (as optional)
- Thermoregulation control supplied as standard fitted with the external probe (as optional).

TECHNICAL DATA

Description	Output 80°/60° min - max kW	Efficiency Pn (80°/60°) %	Efficiency Pn 30% (47 °C return) %	DHW production (Δt 25°) l/min	Fuel	Code
ROOM-SEALED - HEATING AND DHW PRODUCTION						
START 24 KIS	7.5-24.0	92.8	91.8	13.7	NG	**20122798**
START 24 KIS	7.5-24.0	92.8	91.8	13.7	LPG	**20190002**
START 28 KIS	11.0-27.9	93.0	91.9	16.0	NG	**20122801**
START 28 KIS	11.0-27.9	93.0	91.9	16.0	LPG	**20190003**
START 35 KIS	10.8-34.9	92.9	92.5	20.0	NG	**20122802**
CONVENTIONAL FLUE - HEATING AND DHW PRODUCTION						
START 28 KI	8.7-28.6	92.4	89.4	16.4	NG	**20122800**

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	**20063873**
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	**20101747**
COMBUSTION ACCESSORIES	
LPG conversion kit (for START 24 KIS)	**20015586**
ELECTRICAL ACCESSORIES	
External probe	**1220559**
HYDRAULIC ACCESSORIES	
Central heating taps	**4047476**
Central heating taps with filter	**4047475**
Solar diverter valve kit for instantaneous wall-hung combi boilers	**20025113**

Hi, COMFORT CONTROLS

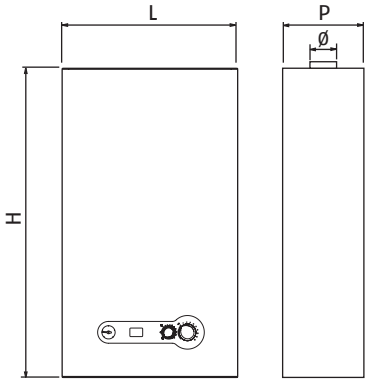
Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

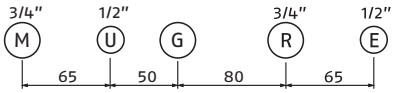
(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) Compatible with RF connection to the Hi, Comfort G100-W codice 20193355 accessory not included, necessary to connect to the home Wi-Fi).

Standard efficiency wall-hung boilers

Fastech



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



- Conventional flue and room sealed models
- Combi boiler

Description	H mm	L mm	P mm	Ø mm	Net weight kg
FASTECH 24 KI	740	400	332	130	30
FASTECH 24 KIS	715	405	248	-	28

Fastech is the new wall-hung boiler dedicated to new housing. Featuring a modern and essential design, Fastech satisfies the heating and DHW demand of small and mid-sized houses. Fastech is available with 24 kW output.

- High-efficiency, bithermic copper heat-exchanger
- The CTR system allows to reach faster the desidered temperature and to reduce consumption, limestone production inside the boiler and thermic variations in the heating terminals
- 8 liters expansion vessel
- Frost protection of the heating and sanitary circuits
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Remote Control Panel to be interfaced
- IPX5D electrical protection rating
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (optional), to be mounted by the technical assistance

TECHNICAL DATA

Description	Output 80°/60° min - max kW	Efficiency Pn (80°/60°) %	Efficiency P30% %	DHW production (Δt 25°) l/min	Fuel	Code
CONVENTIONAL FLUE - HEATING AND DHW PRODUCTION						
FASTECH 24 KI	8.0-24.6	92.0	90.8	14.1	NG	**20122804**
ROOM SEALED - HEATING AND DHW PRODUCTION						
FASTECH 24 KIS	7.5-23.9	92.8	91.8	13.7	NG	**20122807**

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	**20063873**
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	**20101747**
COMBUSTION ACCESSORIES	
LPG conversion kit (for FASTECH 24 KI)	**20015587**
LPG conversion kit (for FASTECH 24 KIS)	**20015586**
ELECTRICAL ACCESSORIES	
External probe	**1220559**
Zone valves management kit	**20000785**
HYDRAULIC ACCESSORIES	
Central heating taps	**4047476**
Central heating taps with filter	**4047475**
Solar diverter valve kit for instantaneous wall-hung combi boilers	**20025113**
Top hydraulic fittings kit	**20008795**
MECHANICAL ACCESSORIES	
Hydraulic fittings cover	**20012594**
Mounting template kit for 24 KIS model (10 pcs)	**20017311**

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

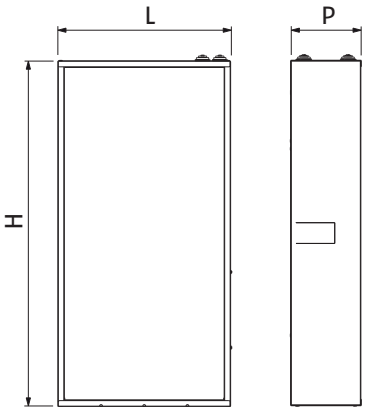
Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) Compatible with RF connection to the Hi, Comfort G100-W codice 20193355 accessory not included, necessary to connect to the home Wi-Fi).

SYSTEM COMPLEMENTARY ITEMS

System complementary items

Bag³ Hybrid



ERP

- Manageable via Modbus by boilers and heat pumps with REC10 control panel
- Setting of independent climatic curves for each zone
- Motorized mixing valves on mix zone
- Low-consumption self-modulating circulators

Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	8,8
BAG³ HYBRID 2D	797	400	160	11,2
BAG³ HYBRID 1D+1M	797	400	160	12,4
IN-WALL INSTALLATION BOX	797	400	160	8,0

The distribution BAG³ is a specific accessory designed for hybrid systems intended for pairing with wall-hung and floor-standing boilers with versions for recessed or outdoor installation (IPX5D electrical protection).

- External housing that groups all components in galvanised sheet metal, for recessed or wall-hung installation
- Distribution collector (mixture bottle)
- Low-consumption self-modulating circulators
- Motorized mixing valve on the mixed zone
- Setting of independent climatic curves for each zone
- To be paired with REC10 H hybrid system control
- Possible connection of zone thermostats

With BAG³ the hybrid systems can be expanded with the addition of:

- single coil domestic hot water heater for pre-heating by the heat pump
- solar thermal collectors, solar circulation pump and electronic kit for solar thermal management
- interface with photovoltaic system to favour the use of the electrical source
- double coil domestic hot water heater for pre-heating by a solar thermal system and the heat pump.

TECHNICAL DATA

Description	Notes	Code
OUTDOOR RECESSED VERSIONS		
BAG³ HYBRID 1D	(1)	**20130805**
BAG³ HYBRID 2D	(1)	**20130806**
BAG³ HYBRID 1D+1M	(1)(2)	**20130807**
IN-WALL INSTALLATION BOX		**20130808**

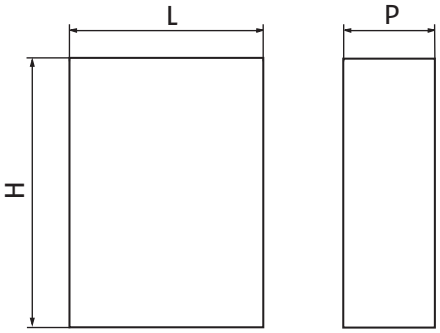
To install the module, it is necessary to purchase the in-wall installation box code 20130808.
(1) Refer to the hybrid system section of the catalogue for compatible boiler pairing.
(2) Limit thermostat on mixed zone only.

ACCESSORIES

Description	Code
Cock kit for BAG³ HYBRID on system and heat pump side	**20131752**

System complementary items

Bag³



ERP

- Hydraulic separator
- Low-energy circulators

Description	H mm	L mm	P mm	Net weight kg
BAG³ AP – BAG³ 2 AP – BAG³ 3 AP	720	400	160	10, 12, 14
BAG³ MIX BASIC – BAG³ MIX CLIMA	720	400	160	16
BAG³ 2 MIX BASIC – BAG³ 2 MIX CLIMA	720	400	160	17
BAG³ MIX FAMILY COND	616	440	160	16
IN-WALL INSTALLATION BOX	720	400	160	6

BAG hydraulic separator is an accessory to be matched with wall-hung and floor-standing boilers that can be installed outdoor or in a in-wall place.

- BAG³ for high-flow rate direct circuit (1, 2 or 3 zones) works as a hydraulic separator between boiler and high-flow rate circuits. Equipped with self modulating energy-efficient circulators.
- BAG³ MIX and BAG³ 2 MIX for high-flow rate direct and mixed circuits, work as hydraulic separators between boiler and double or triple temperature circuits. Equipped with self modulating energy-efficient circulators.
- BAG³ MIX Family Condens for direct and mixed circuit: mixing valve and mixed circuit pump are controlled by the electronic board supplied as standard, that can be located inside the boiler.
- Energy-efficient circulators
- Suitable for in-wall and outdoor installation
- Galvanized sheet that can be white painted
- BAG³ and BAG³ M are supplied as standard with limit thermostat for low temperature circuits.

TECHNICAL DATA

Description	Notes	Code
VERSION FOR OUTDOOR IN-WALL INSTALLATION		
BAG³ AP	(1)	**20082277**
BAG³ 2 AP	(1)	**20082280**
BAG³ 3 AP	(1)	**20082282**
BAG³ MIX BASIC	(1)	**20082286**
BAG³ MIX CLIMA	(1)	**20082283**
BAG³ 2 MIX BASIC	(1)	**20082288**
BAG³ 2 MIX CLIMA	(1)	**20082284**
BAG³ MIX FAMILY CONDENS	(2)	**20102824**
IN-WALL INSTALLATION BOX		**20007305**

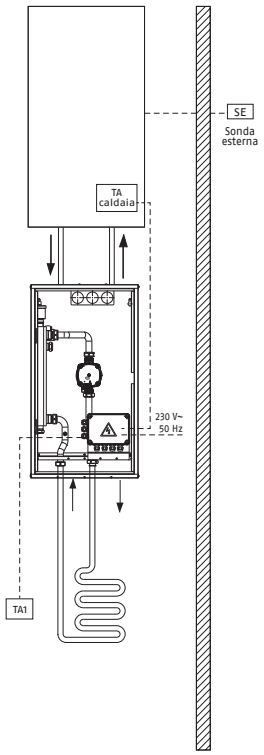
(1) Supplied without in-wall installation box
(2) Supplied with in-wall installation box

ACCESSORIES

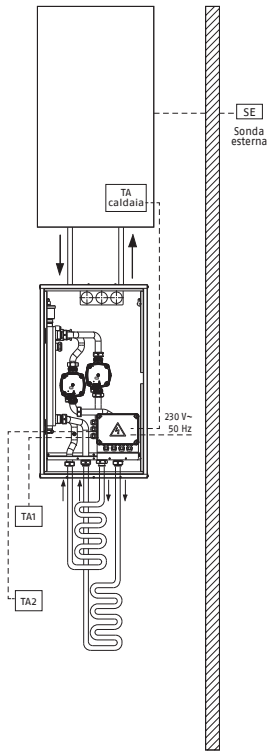
Description	Notes	Code
Interface board ITRF11	(1)	**20164477**
Insulation kit for in-wall installation box		**20085456**

(1) It is necessary in case of installation of BAG³ MIX CLIMA (20082283 code) and BAG3 2 MIX CLIMA (20082284 code) with Family Aqua Condens, Family Externa Condens and Family In Condens to manage high and low temperature circuits according to the boiler flow temperature.

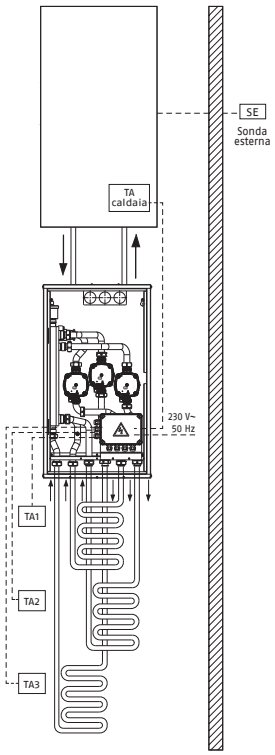
BAG³ AP



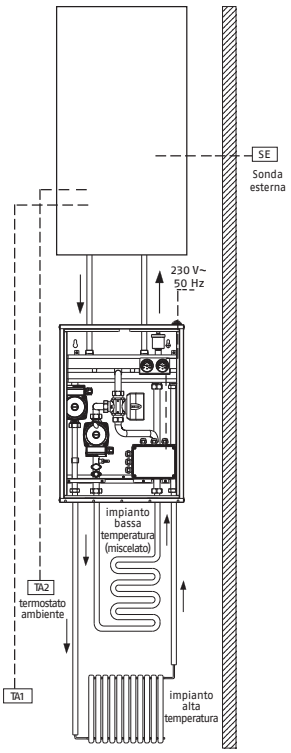
BAG³ 2 AP



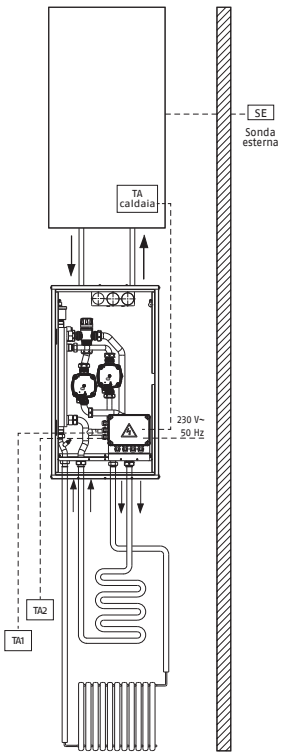
BAG³ 3 AP



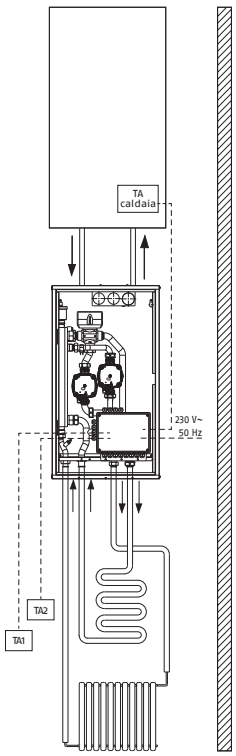
BAG³ MIX FAMILY CONDENS



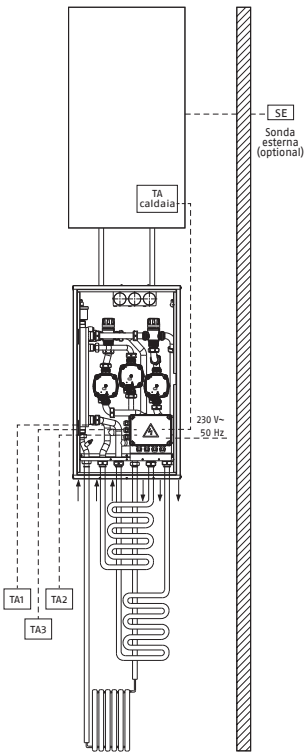
BAG³ MIX BASIC



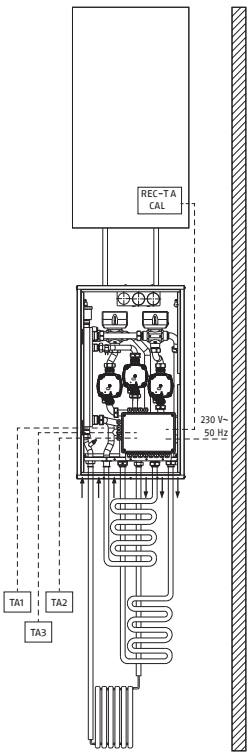
BAG³ MIX CLIMA



BAG³ 2 MIX BASIC

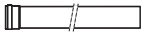
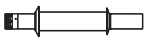


BAG³ 2 MIX CLIMA



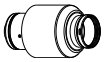
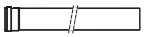
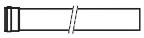
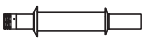
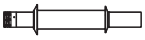
FLUE OPTIONS SYSTEM

METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material	Family (1)	Family Aqua Condens	Residence (1)	Start (1)	Start Aqua Condens	Start AR	Code
	Ø80 mm twin system kit	Met	•	•	•	•	•	•	**20162456**
	Flue adapter Ø80 mm with air inlet	Met	•	•	•	•	•		**20162448**
	45° Ø80 mm bend	Met	•	•	•	•	•	•	**20162295**
	90° Ø80 mm bend	Met	•	•	•	•	•	•	**20162296**
	Extension 50 cm Ø80 mm	Met	•	•	•	•	•	•	**20162298**
	Extension 100 cm Ø80 mm	Met	•	•	•	•	•	•	**20162299**
	Horizontal flue terminal Ø80 mm	Met	•	•	•	•	•	•	**20162442**
	Spacers for pipe Ø80 mm	Met	•	•	•	•	•	•	**20137532**
	90° bend with inspection door Ø80 mm	Met	•	•	•	•	•	•	**20162297**

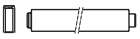
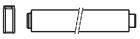
(1) For boiler start-up, see the section on the flue 60/100 and only afterwords switch to diameter 80/125.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length.

PLASTIC Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS – H1 CLASS (*)

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start	Start Aqua Condens	Start AR	Notes	Code
	Adjustable splitter device kit from Ø60/100 mm to Ø80/-80 mm	PP	•		•	•			(1)	**20134830**
	Compact swelling kit Ø60/100 - Ø80/80	PP	•		•	•			(1)	**20190475**
	Fixed twin system Ø80 mm kit	PP	•		•	•			(1)	**20129765**
	Splitter device kit B23 Ø80 mm for in-wall installation box	PP	•		•	•			(1)	**20129768**
	Twin system Ø80 mm kit	PP	•		•	•			(1)	**20137501**
	Ø80 mm twin system kit	PP		•				•	(1)	**20137523**
	Flue gas exhaust kit B23 Ø80 mm	PP	•		•	•			(1)	**20129769**
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(1)	**20137503**
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(1)	**20137506**
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(1)	**20137508**
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(1)	**20137509**
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(1)	**20137511**
	Horizontal flue collector Ø80 mm	PP	•	•	•	•	•	•	(1)	**20137517**
	Horizontal air inlet collector Ø80 mm	PP	•	•	•	•	•	•	(1)	**20137515**
	Ø80 mm clapet with condensate trap	PP	•	•	•	•	•	•	(1)	**20164664**

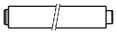
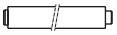
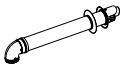
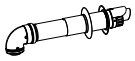
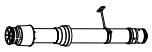
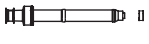
(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).
(1) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

PP/Met Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS – H1 CLASS (*)

Drawing	Description	Material (*)	Family Aqua Condens	Start Aqua Condens	Notes	Code
	45° Ø60/100 mm concentric bend	PP/Met	•	•	(1)(2)	**20142823**
	90° Ø60/100 mm concentric bend	PP/Met	•	•	(1)(2)	**20142825**
	Concentric extension 50 cm, Ø60/100 mm	PP/Met	•	•	(1)(2)	**20142829**
	Concentric extension 100 cm, Ø60/100 mm	PP/Met	•	•	(1)(2)	**20142830**
	Concentric extension 200 cm, Ø60/100 mm	PP/Met	•	•	(1)(2)	**20142831**
	Ø60/100 mm horizontal flue terminal	PP/Met	•	•	(1)(2)	**20142836**
	Ø60/100 mm vertical flue terminal	PP/Met	•	•	(1)(2)	**20142839**
	Ø60/100 mm inspection extension	PP/Met	•	•	(1)(2)	**20142835**
	90° bend with inspection door Ø60/100 mm	PP/Met	•	•	(1)(2)	**20142828**
	Flat roof tile	Nylon	•	•		**20135579**
	Pitched roof tile	Nylon	•	•		**20132050**

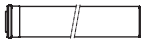
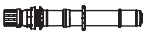
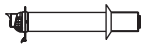
(*) PP material: colour may change over time because of sun's rays exposure. Class H1 – High Positive pressure (max 5,000 Pa).
(1) P1 pressure level according to EN 1443.
(2) Until stocks are exhausted.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

PP/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS – H1 CLASS (*)

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60/100 mm concentric bend	PP/PP	•	•	•	•	•	•	(1)	**20132012**
	90° boiler start bend kit Ø60/100 mm	PP/PP	•		•	•		•	(1)	**20129172**
	90° Ø60/100 mm concentric bend	PP/PP		•			•		(1)	**20132013**
	Concentric extension 50 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(1)	**20132043**
	Concentric extension 100 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(1)	**20132044**
	Concentric extension 200 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(1)	**20132045**
	Wall collector Ø60/100 mm	PP/PP	•		•	•		•	(1)	**20129175**
	Telescopic wall collector Ø60/100 mm	PP/PP	•		•	•		•	(1)	**20129176**
	Ø60/100 mm horizontal flue terminal	PP/PP		•			•		(1)	**20132018**
	Vertical collector Ø60/100 mm	PP/PP	•		•	•		•	(1)	**20129177**
	Ø60/100 mm vertical flue terminal – Ø125 mm external straight pipe	PP/PP		•			•		(1)	**20132020**
	Vertical connection Ø60/100 mm	PP/PP	•		•	•		•	(1)	**20129174**
	Ø60/100 mm inspection extension	PP/PP	•	•	•	•	•	•	(1)	**20132015**
	Flat roof tile	Nylon	•	•	•	•	•	•		**20135579**
	Pitched roof tile	Nylon	•	•	•	•	•	•		**20132050**

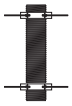
(*) PP material: colour may change over time because of sun's rays exposure. Class H1 – High Positive pressure (max 5,000 Pa).
(1) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

PP/Met Ø80/125 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS – H1 CLASS (*)

Drawing	Description	Material (*)	Family (**)	Family Aqua Condens	Residence (**)	Start (**)	Start Aqua Condens	Start AR	Notes	Code
	45° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(1)	**20164651**
	87° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(1)	**20164653**
	Concentric extension 50 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164657**
	Concentric extension 100 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164659**
	Concentric extension 200 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164660**
	87° concentric bend with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164655**
	Concentric extension with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164661**
	Ø80/125 mm vertical flue terminal	PP/Met	•	•	•	•	•	•	(1)	**20164669**
	Ø80/125 mm horizontal flue terminal	PP/Met	•	•	•	•	•	•	(1)	**20164673**
	Spacers Ø80-125 mm (5 pcs)	Met	•	•	•	•	•	•		**20164665**
	Flue adapter from Ø60/100 mm to 80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164666**
	Flue adapter from Ø60/100 mm to Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	**20164666**
	Ø80/125 mm clapet with condensate trap	PP/Met	•	•	•	•	•	•	(1)	**20164662**
	Flat roof tile	Nylon	•	•	•	•	•	•		**20135579**
	Pitched roof tile	Nylon	•	•	•	•	•	•		**20132050**

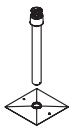
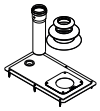
(*) PP material: colour may change over time because of sun's rays exposure. Class H1 – High Positive pressure (max 5,000 Pa).
(**) 60/100 boiler connection kit (cod. 20129174) and 60/100 to 80/125 adapter (cod. 20164666) are mandatory.
(1) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

PLASTIC (PP) Ø80 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING BOILERS - H1 CLASS (*)

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start	Start Aqua Condens	Start AR	Notes	Code
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	**20164570**
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	**20164572**
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	**20164574**
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	**20164577**
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	**20164578**
	Ø80/125 mm chimney adapter	PP	•	•	•	•	•	•	(2)	**20132520**
	T connection Ø60 mm	PP	•	•	•	•	•	•	(2)	**20164584**
	Ø60/80 mm adapter	PP	•	•	•	•	•	•	(2)	**20164585**
	Chimney support kit Ø80 mm	PP	•	•	•	•	•	•	(2)	**20132504**
	Pipe spacers	PP	•	•	•	•	•	•		**20132505**
	Ø80 mm inspection extension	PP	•	•	•	•	•	•	(2)	**20132506**
	Ø80 mm roof tile	PP	•	•	•	•	•	•	(2)	**20132508**
	Ø80 mm flexible extension (12,5m) with 8 spacers	PP	•	•	•	•	•	•	(2)	**20132509**
	Rigid/flexible connection Ø80 mm M	PP	•	•	•	•	•	•	(2)	**20132510**
	Flexible/rigid connection Ø80 mm F	PP	•	•	•	•	•	•	(2)	**20132512**
	Syphon kit	PP	•	•	•	•	•	•		**20046782**
	T connection Ø80 mm	PP	•	•	•	•	•	•	(1)	**20163018**
	Condensate trap cap for T-connection Ø80 mm	PP	•	•	•	•	•	•	(1)	**20163019**
	Shelf support kit for condensate trap	Met	•	•	•	•	•	•		**20145888**
	Flue cover panel kit		•	•	•	•	•	•		**20145889**

(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).
(1) P1 pressure level according to EN 1443.
(2) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

PLASTIC (PP) Ø60 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING BOILERS - H1 CLASS (*)

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60 mm bend	PP	•	•	•	•	•	(1)	**20145877**
	90° Ø60 mm bend	PP	•	•	•	•	•	(1)	**20145876**
	Extension 50 cm Ø60 mm	PP	•	•	•	•	•	(1)	**20145879**
	Extension 100 cm Ø60 mm	PP	•	•	•	•	•	(1)	**20145882**
	Extension 200 cm Ø60 mm	PP	•	•	•	•	•	(1)	**20145883**
	Ø60/100 mm vertical flue terminal - Ø100 mm external straight pipe	PP/PP	•	•	•	•	•	(1)	**20145884**
	3 spacers kit for inside-chimney Ø60 mm	PP	•	•	•	•	•		**20145886**
	Shelf support kit for inside-chimney	PP	•	•	•	•	•		**20145888**
	Chimney front cover kit	PP	•	•	•	•	•		**20145889**
	5 hose clamps kit Ø60 mm	PP	•	•	•	•	•		**20145890**
	Chimney connection kit Ø80-60 mm with bend 90° Ø60 mm	PP	•	•	•	•	•	(1)	**20145892**
	T-connection Ø60 mm with condensate trap	PP	•	•	•	•	•	(1)	**20145894**
	Syphon kit	PP	•	•	•	•	•		**20046782**
	Flue reduction kit 80-60 mm	PP	•	•	•	•	•	(1)	**20145897**

(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).
(1) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

ONLY EXTRA EU COUNTRIES

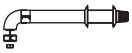
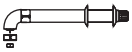
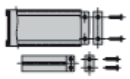
METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material	Family	Start	Fastech	Notes	Code
	Ø80 mm twin system kit	Met	•	•		(1)	**20162667**
	Air box twin system kit	Met	•	•	•	(1)	**20162666**
	45° bend Ø80 mm with gasket	Met	•	•	•	(1)	**20162295**
	90° bend Ø80 mm with gasket	Met	•	•	•	(1)	**20162296**
	Ø80 mm extension 100 cm with gasket	Met	•	•	•	(1)	**20162299**
	Ø80 mm extension 50 cm with gasket	Met	•	•	•	(1)	**20162298**
	Ø80 mm extension 195 cm with gasket	Met	•	•	•	(1)	**20162300**
	Air intake collector	Met	•	•	•	(1)	**20162665**
	Flue collector horizontal	Met	•	•	•	(1)	**20162664**
	Spacers for Ø80 mm pipe (10 pcs)	Met	•	•	•		**20137532**
	Ø80 mm condensate trap horizontal	Met	•	•	•	(1)	**20162662**
	Ø80 mm condensate trap vertical	Met	•	•	•	(1)	**20162663**
	Ø80 mm pipes terminal	Met	•	•	•	(1)	**20162443**
	90° bend with inspection door Ø80 mm (Slovenia)	Met	•	•	•	(1)	**20162297**

(1) P1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length

ONLY EXTRA EU COUNTRIES

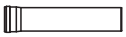
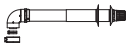
MET/MET Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material	Family	Start	Fastech	Notes	Code
	Ø60-100 mm vertical flue terminal - Ø125 mm external straight pipe	Met/Met	•	•	•	(1)	**20163422**
	Standard collector horizontal	Met/Met	•	•	•	(1)	**20163408**
	Telescopic collector horizontal extensible from 43 to 73,5 cm	Met/Met	•	•	•	(1)	**20163410**
	Concentric extension Ø60-100 mm (75 cm)	Met/Met	•	•	•	(1)	**20163391**
	Concentric extension Ø60-100 mm (147 cm)	Met/Met	•	•	•	(1)	**20163393**
	90° bend Ø60-100 mm	Met/Met	•	•	•	(1)	**20163333**
	90° bend kit Ø60-100 mm for installation replacement	Met			•	(1)	**20163388**
	45° bend Ø60-100	Met/Met	•	•	•	(1)	**20163327**
	Ø60-100 mm condensate trap vertical	Met/Met	•	•	•	(1)	**20163403**
	Ø60-100 mm condensate trap horizontal	Met/Met	•	•	•	(1)	**20163400**
	Clip kit H 45 mm with gasket Ø100 mm (4 pcs)		•	•	•		**20163429**
	Pipe spacers Ø100 mm (4 pcs)	Met	•	•	•		**20135584**
	Ø60-100 mm telescopic extension (from 165 to 220 mm)	Met/Met	•	•	•	(1)	**20163396**
	Ø60-100 mm 90° bend with inspection door	Met/Met	•	•	•	(1)	**20163390**
	Connection clip kit boiler-flue Ø60-100 mm		•	•	•		**20163425**
	Flat roof tile	Nylon	•	•	•		**20135579**
	Pitched roof tile	Nylon	•	•	•		**20132050**

(1) P1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

ONLY EXTRA EU COUNTRIES

MET/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material	Family	Start	Fastech	Notes	Code
	45° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	**20162785**
	90° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	**20162786**
	90° Ø60-100 mm concentric bend in Met/PPu - for boiler connection	Met/PP	•	•	•	(1)	**20162791**
	Concentric extension M-F Ø60-100 mm in Met/PPu (500 mm)	Met/PP	•	•	•	(1)	**20162793**
	Concentric extension M-F Ø60-100 mm in Met/PPu (1000 mm)	Met/PP	•	•	•	(1)	**20162795**
	Concentric extension M-F Ø60-100 mm in Met/PPu (2000 mm)	Met/PP	•	•	•	(1)	**20162796**
	Ø60-100 mm vertical flue terminal; Ø125 mm external straight pipe	Met/PP	•	•	•	(1)	**20162797**
	Ø60-100 mm concentric horizontal flue terminal in Met/PPu	Met/PP	•	•	•	(1)	**20162798**
	Ø60-100 mm telescopic horizontal flue terminal in Met/PPu (extensible from 500 mm to 800 mm)	Met/PP	•	•	•	(1)	**20162799**
	Flat roof tile	Nylon	•	•	•		**20135579**
	Pitched roof tile	Nylon	•	•	•		**20132050**

(1) P1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

FLOOR-STANDING BOILERS

FLOOR-STANDING CONDENSING BOILERS

STEEL OIL BOILERS

HEATNG ONLY

WITH 3 WAY VALVE

INSIEME EVO COND

INSIEME EVO COND 20 V LN (20 kW)*
INSIEME EVO COND 25 V LN (25 kW)*
INSIEME EVO COND 35 V LN (34,9 kW)*

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INSIEME EVO COND

INSIEME EVO COND 45 LN (43,7 kW)*
INSIEME EVO COND 55 LN (38,9-53,3 kW)**
INSIEME EVO COND 70 LN (53,4-67,7 kW)**

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HEATING AND DHW PRODUCTION

130 LITERS SORAGE TANK

INSIEME EVO COND

INSIEME EVO COND 25 B/130 LN (25 kW)*
INSIEME EVO COND 35 B/130 LN (34,9 kW)*

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* Max useful power 80/60 °C
** Min/max useful power 80/60 °C

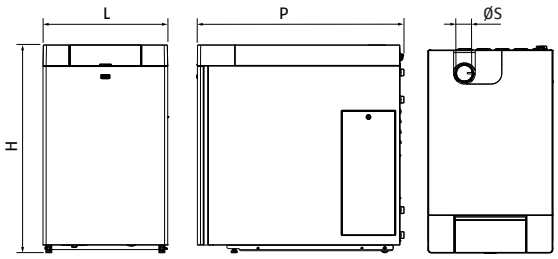
Steel floor-standing oil condensing boilers

Insieme Evo Cond

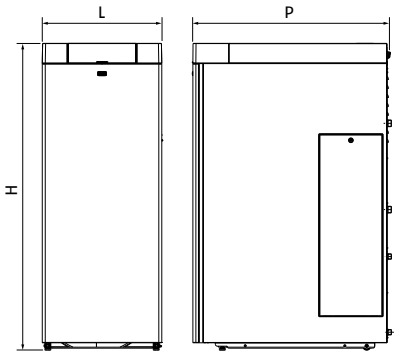
ERP

- In conformity with Directive 2009/125/EC
- Steel boilers with oil burner for heating and for the production of domestic hot water
- Low NOx version - class 3 according to EN 267

INSIEME EVO COND 20-35 V LN
INSIEME EVO COND 45-70 LN



INSIEME EVO COND 25-35 B/130 LN



Description	H mm	L mm	P mm	ØA (*) mm	ØS mm	Net weight kg
Insieme EVO COND 20 V LN	1000	600	994	80	80	120
Insieme EVO COND 25 V LN	1000	600	994	80	80	120
Insieme EVO COND 35 V LN	1000	600	994	80	80	150
Insieme EVO COND 45 LN	1138	600	1155	110	110	195
Insieme EVO COND 55 LN	1138	600	1155	110	110	198
Insieme EVO COND 70 LN	1138	600	1155	110	110	202
Insieme EVO COND 25 B/130 LN	1540	600	975	80	80	150
Insieme EVO COND 35 B/130 LN	1540	600	975	80	80	195

(*) Type C transformation kit as optional.

Oil condensing thermal group equipped with single stage burner for heat outputs up to 45 kW, dual stage for 55.70 kW models with low pollutant emissions.
The stainless steel boiler body has an horizontal layout, coated with insulating and sound absorbing material. Insieme EVO COND is available with open chamber configuration as standard, convertible as sealed chamber with specifics accessory kits. "Heating only" or combined versions are available for the production of domestic hot water with storage tank.
All models are equipped with a new electronic panel with a backlit graphic display with five buttons and LEDs for operation status display.
The control system provides the climatic regulation, the management of up to 3 zones distribution with specific accessory kits, the management of the sanitary hot water.
The electronics also provides the possibility of the remote management by means of the 0-10 V input, or with the Modbus protocol.

- Low sound emissions
- Flexible and cheapness installation. All the accessories for the operation and the safety are included in the furniture
- Simple maintainability: combustion chamber, flue manifold, control panel and hydraulic connextions are easily accessible
- Low pollutant emissions (class 3 according to EN 267 with NOx emissions ≤100 mg/kWh)
- Maximum working pressure: 3 bar
- Complete with flexible oil hoses

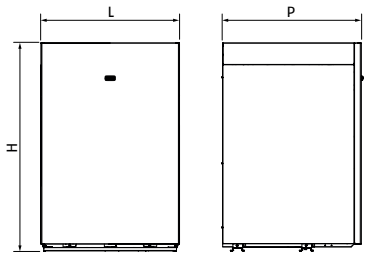
Insieme EVO COND 20-35 V LN: thermal groups for the room heating with integrated 3 way valve for the connection with an external tank (optional)
Insieme EVO COND 25-35 B/130 LN: thermal group for the combined heating and domestic hot water production by means of an integrated 130 liters storage tank
Insieme EVO COND 45-70 LN: thermal groups for the room heating.

TECHNICAL DATA

Description	Output kW		Efficiency		DHW production l/min	Tank capacity (liters)	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (30°C) %						
LOW NOX VERSION - HEATING ONLY										
Insieme EVO COND 20 V LN	19.5	20.0	97.3	105.9	-	-	A	-	(1)	**20145974**
Insieme EVO COND 25 V LN	24.2	25.0	96.9	105.6	-	-	A	-	(1)	**20145975**
Insieme EVO COND 35 V LN	33.8	34.9	96.5	104.8	-	-	A	-	(1)	**20145976**
Insieme EVO COND 45 LN	43.7	45	97.2	104.8	-	-	A	-		**20145977**
Insieme EVO COND 55 LN	53.3	40-55	96.9	104.9	-	-	A	-		**20145978**
Insieme EVO COND 70 LN	67.7	55-70	96.8	104.8	-	-	A	-		**20145979**
LOW NOX VERSION - HEATING AND DOMESTIC HOT WATER PRODUCTION WITH STORAGE TANK										
Insieme EVO COND 25 B/130 LN	24.2	25.0	96.9	105.6	10.0	130	A	B	(2)	**20145980**
Insieme EVO COND 35 B/130 LN	33.8	34.9	96.5	104.8	11.4	130	A	B	(2)	**20145981**

(1) Integrated 3 way valve.
(2) Domestic hot water production with reference to ΔT 35 °C.

ACCESSORIES



Description	H mm	L mm	P mm	Net weight kg
120 lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production l/h	Energy efficiency class	Notes	Code
120 lt storage tank	120,0	29,8	730	C	(1)(2)	**20132804**
Boiler - storage tank hydraulic connection					(1)	**20132805**

(1) Coupable with integrated 3 way valve models ("V" version).
(2) Grey painted tank (RAL 7047).

ACCESSORIES

Description	Notes	Code
SECONDARY CIRCUIT MANAGEMENT		
External probe		1220559
Domestic hot water probe		1220599
1st direct/mixed zone management		20132795
2nd/3rd direct/mixed zone management		20132796
SEALED TRANSFORMATION (TYPE C)		
Ø80 mm type C transformation	(1)	20163226
Ø110 mm type C transformation	(2)	20163285
SAFETY DEVICES		
Fuel shut-off valve kit (VIC) - ØG.1"		20009486
Pressure gauge- safety valve kit (2,5 bar)	(3)	20181008
Safety devices kit	(2)(4)	20180519
Safety kit adapter	(2)	20165826
FUEL FILTER		
Oil filter		20132792
FLUE DISCHARGE		
Ø80 - Ø80/125 mm adapter	(1)	20159698
Ø110 - Ø110/160 mm adapter	(2)	20160472
HYDRAULIC ACCESSORIES		
DN70 hydraulic separator		4047314
CASCADE MANAGEMENT		
RIELLOtech CLIMA COMFORT	(2)	4031069
CLIMA COMFORT	(2)	20010903
CLIMA DISPLAY	(2)	20010906
Kit controllo ambiente RC3	(2)	20155028
Kit comunicazione per comunicazione bus tra Insiem Evo Cond e RIELLOtech	(2)(5)	20021674
Sonda per pozzetto collettore solare NTC (10kΩ)	(2)(6)	4031913
Sonda per pozzetto NTC (10kΩ) 5 metri	(2)(7)	20010068
Sonda a bracciale NTC (10kΩ)	(2)(8)	20010068
Sonda bollitore NTC (10kΩ) 5 metri	(2)(9)	20010103
CONDENSATE NEUTRALIZER		
DN0 1 neutralization kit (up to 50 kW)		20182660
DN0 2 neutralization kit (up to 300 kW)		20182661
HN0 1.6 neutralization kit (up to 200 kW)	(10)	20182664

(1) For 20-25-35 models.
(2) For 45-55-70 models.
(3) To be combined with code 20180519.
(4) It contains: pressure switch, minimum pressure switch and thermometer.
(5) It contains wiring and communication kit.
(6) Probe for solar system.
(7) Primary probe (hydraulic separator).
(8) Mixed zone probe.
(9) Cylinder probe.
(10) Equipped with extraction pump.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	20193354
	Hi, Comfort T100	(2)	20193352
	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356

(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

FLOOR-STANDING STANDARD EFFICIENCY BOILERS

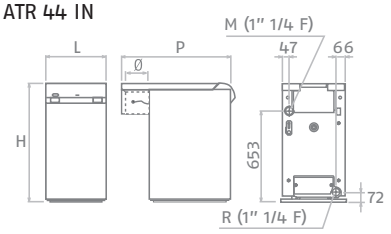
		GAS BOILERS	OIL BOILERS	
		CAST IRON	STEEL	CAST IRON
ONLY HEATNG CONVENTIONAL FLUE		 **ATR** ATR 44 IN (43,6 kW) ATR 52 IN (52,2 kW) ATR 64 IN (63,5 kW) ATR 71 IN (71,1 kW) page 192	 **INSIEME EVOe LN** INSIEME EVOe 25 LN (26,5 kW)* INSIEME EVOe 32 V LN (33,9 kW)* page 194	 **GITRÈ** GITRÈ 4 (25,0 KW) GITRÈ 5 (32,0 KW) GITRÈ 6 (40,0 KW) page 197
HEATING AND DHW PRODUCTION CONVENTIONAL FLUE	INSTANTANEOUS		 **INSIEME EVOe LN** INSIEME EVOE 25 K LN (26,5 KW)* INSIEME EVOE 32 K LN (33,9 KW)* page 194	
	70 LITERS STORAGE TANK		 **INSIEME EVOe LN** INSIEME EVOE 25 B/70 LN (26,5 KW)* page 194	
	100-130 LITERS STORAGE TANK		 **INSIEME EVOe LN** INSIEME EVOE 32 B/110 LN (33,9 KW)* page 194	 **GITRÈ** GITRÈ 5 B/100 (32 KW) page 197

* All versions can be transformed into a sealed chamber version with a dedicated accessory kit.

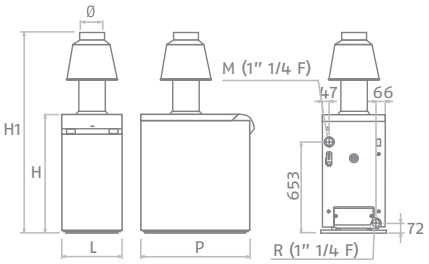
Atmospheric gas floor-standing boilers

ATR

ATR 44 IN



ATR 52 IN - 64 IN - 71 IN



- Standard efficiency conventional flue cast-iron gas floor-standing boilers for light commercial and commercial applications. Equipped with stainless steel atmospheric burner and built-in control panel, they are suitable for the installation in any kind of plant room.

Description	H mm	H1 mm	L mm	P mm	Ø mm	Net weight kg
ATR 44 IN	850	-	450	780	180	166
ATR 52 IN	850	1475	450	701	180	190
ATR 64 IN	850	1475	450	748	180	225
ATR 71 IN	850	1700	450	867	200	251

ATR features a high efficiency cast iron heat-exchanger, with ionization flame control. The thermostatic control board is provided with a total shut-off function.

- Standard efficiency, higher than 90%.
- Noiseless operation.
- Compact sizes.
- Possible conversion to LPG through the specific kit to be ordered separately.
- Antirefouleur kit for ATR 52-64-71 IN models.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (Tm=70 °C) %	Efficiency (30% Pn) %	Notes	Code
HIGH EFFICIENCY (>90%) - CONVENTIONAL FLUE						
ATR 44 IN	43.6	48.3	90.3	90.1	(1)	**4045145**
ATR 52 IN	52.2	57.9	90.2	90.1	(2)	**4045146**
ATR 64 IN	63.5	70.5	90.1	90.0	(2)	**4045147**
ATR 71 IN	71.1	79.0	90.0	90.0	(3)	**4045148**

(1) Built-in anti-refouleur kit Ø 180 mm.
(2) In addition to the boilers ATR 52 IN and ATR 64 IN. it is necessary to order the code 480213: anti-refouleur kit Ø 180 mm.
(3) In addition to the boiler ATR 71 IN it is necessary to order the code 480214: anti-refouleur kit Ø 200 mm.
NOTE: the electrical interface kit for tank is required for the use of ATRB 120 tank.

ACCESSORIES

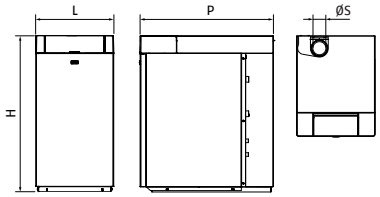
Description	Notes	Code
Interface kit for DHW-tank		**4047695**
Global shut-off kit	(1)	**4047697**
Hydraulic kit for ATRB 120		**4047692**
LPG transformation kit for ATR 44		**20185318**
LPG transformation kit for ATR 52		**20185315**
LPG transformation kit for ATR 64		**20185316**
LPG transformation kit for ATR 71		**20185317**
Anti-refouleur kit Ø180 mm	(2)	**480213**
Anti-refouleur kit Ø200 mm	(3)	**480214**

(1) The "global shut-off kit" is necessary when you installed the electrical interface kit for DHW-tank (code 4047695) to keep the funcion "global shut-off". For hydraulic accessories, please contact Sales Department.
(2) Only for ATR 52 IN and ATR 64 IN.
(3) Only for ATR 71 IN.

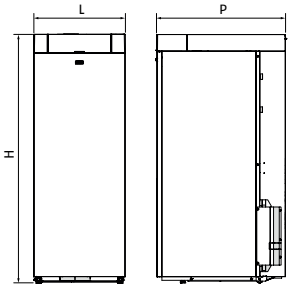
Steel floor-standing standard boilers

Insieme EVOe LN

Insieme EVOe 25 LN - 32 V LN
Insieme EVOe 25/32 K LN



Insieme EVOe 25 B/70 LN
Insieme EVOe 32 B/110 LN



ERP

- In conformity with Directive 2009/125/EC
- Steel boilers with light oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267

Description	H mm	L mm	P mm	Ø A mm	Ø S mm	Net weight kg
Insieme EVOe 25 LN	900	450	660	80	80	104
Insieme EVOe 32 V LN	900	600	760	80	120	136
Insieme EVOe 25 K LN	900	450	660	80	80	106
Insieme EVOe 32 K LN	900	600	760	80	120	138
Insieme EVOe 25 B/70 LN	1355	500	735	80	80	155
Insieme EVOe 32 B/110 LN	1490	600	700	80	120	206

* Type C conversion accessory kit

Steel boiler with low combustion pollutant emission one-stage light oil burner. The body of the boiler is vertical and is covered in insulating and sound-proofing material.
The standard Insieme EVOe is available with an open chamber that can be converted into a sealed chamber with the accessory kit. Versions are available for heating only or combined with instantaneous domestic hot water production or with storage.
All models have a new electronic panel with backlit graphic display and five keys and LEDs for displaying the operating status. The control system provides climatic adjustment, the management of the distribution of up to 3 zones using special accessory kits, and the regulation of the domestic hot water. The electronics also provide the possibility of remote management using a 0-10 V input or else with the Modbus protocol.

- Low sound emissions
- Easy and inexpensive to install. The delivery includes all the accessories for it to operate safely
- Easy to maintain: combustion chamber, flue gases manifold, control panel and hydraulic connections are can be easily accessed
- Low pollutant emissions, class 3 according to EN 267 (NOx≤100mg/kWh)
- Maximum operating pressure: 3 bar

Insieme EVOe 25 LN: boiler for room heating.

Insieme EVOe 32 V LN: boiler for room heating. Equipped with 3-way valve for combination with an external domestic hot water storage cylinder (accessory kit).

Insieme EVOe 25/32 K LN: boilers for room heating and the instantaneous priority production of domestic hot water using an instantaneous plate heat exchanger with a diverter valve and control of the modulating pump (PWM).

Insieme EVOe 25 B/70 LN: boilers for room heating and the production of domestic hot water with a 70 litre integrated storage cylinder.

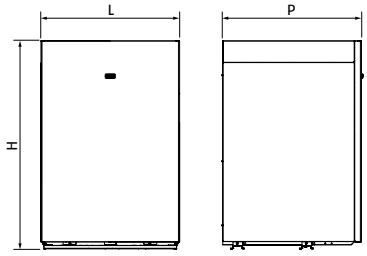
Insieme EVOe 32 B/110 LN: boilers for room heating and the production of domestic hot water with a 110 litre integrated storage cylinder.

TECHNICAL DATA

Description	Output kW		Efficiency %		DHW production l/min	Tank capacity liters	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (37 °C) %						
LOW NOX VERSION - ONLY HEATING										
Insieme EVOe 25 LN	25.3	26.5	95.4	96.6	-	-	B	-		**20118240**
Insieme EVOe 32 V LN	32.5	33.9	95.7	97.3	-	-	B	-		**20130415**
LOW NOX VERSION - HEATING AND INSTANTANEOUS DOMESTIC HOT WATER PRODUCTION										
Insieme EVOe 25 K LN	25.3	26.5	95.4	96.6	9.4	-	B	B	(1)	**20118244**
Insieme EVOe 32 K LN	32.5	33.9	95.7	97.3	12.7	-	B	B	(1)	**20118245**
LOW NOX VERSION - HEATING AND DOMESTIC HOT WATER PRODUCTION WITH STORAGE CYLINDER										
Insieme EVOe 25 B/70 LN	25.3	26.5	95.4	96.6	9.4	69	B	B	(1)	**20118246**
Insieme EVOe 32 B/110 LN	32.5	33.9	95.7	97.3	12.7	106	B	B	(1)	**20118250**

(1) Domestic hot water production with reference to ΔT 35 °C

ACCESSORIES



Description	H mm	L mm	P mm	Net weight kg
120 lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production l/h	Energy efficiency class	Notes	Code
120 lt storage tank	120,0	29,8	730	C	(1)(2)	**20132804**
Boiler - storage tank hydraulic connection					(1)	**20132805**

(1) Coupable with integrated 3 way valve models ("V" version).
(2) Grey painted tank (RAL 7047).

ACCESSORIES

Description	Code
SECONDARY CIRCUIT MANAGEMENT	
External probe	**1220559**
Domestic hot water probe	**1220599**
1st direct/mixed zone management	**20132795**
2nd/3rd direct/mixed zone management	**20132796**
SEALED TRANSFORMATION (TYPE C)	
Type C transformation MOD 25	**20132799**
Type C transformation MOD 32	**20132800**
FUEL FILTER	
Oil filter	**20132792**
Ø80 mm SINGLE DISCHARGE OR TWIN SUCTION/DISCHARGE	
Ø120/80 - Ø80/80 mm twin adapter	**20180504**
45° bend Ø80	**20162295**
90° bend Ø80	**20162296**
90° bend Ø80 with inspection	**20162297**
Extension L = 500 mm Ø80 mm	**20162298**
Extension L = 1000 mm Ø80 mm	**20162299**

Description	Code
Extension L = 2000 mm Ø80 mm	**20162300**
Horizontal terminal Ø80 mm	**20162442**
SINGLE EXHAUST OR CONCENTRIC INTAKE/EXHAUST SYSTEM Ø80/125 mm	
Concentric exhaust adapter Ø80/125 mm	**20132801**
HYDRAULIC ACCESSORIES	
Hydraulic separator	**20132798**

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

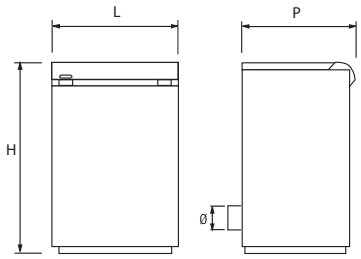
Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	**20193354**
	Hi, Comfort T100	(2)	**20193352**
	Hi, Comfort G100-W		**20193355**
	Hi, Comfort G100-R		**20193356**

(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
(1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

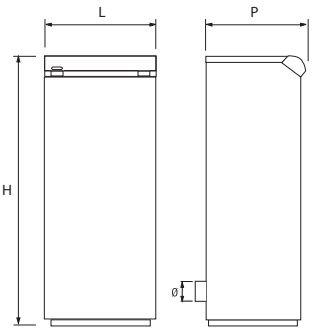
Cast iron floor-standing standard boilers

Gitrè

GITRE' 4-5-6



GITRE' 5/B 100



ERP

- In conformity with Directive 2009/125/EC
- Cast iron oil floor standing boilers, with three flue gas passes, removable turbolators and winged pipes

Description	H mm	L mm	P mm	Ø mm	Net weight kg
GITRÈ 4	850	450	800	130	182
GITRÈ 5	850	450	900	130	214
GITRÈ 6	850	450	1000	130	248
GITRÈ 5 B/100	1500	600	900	130	286

Cast iron floor standing boiler with three flue gas passes and single stage oil burner, with standard combustion and low polluting emissions; wet horizontal combustion chamber and highly insulated boiler body. GITRÈ is available in only heating models or combined for DHW production, provided with an enameled 100 liters storage tanks featuring a double-layer insulation.

- All models are equipped with a thermostatic control panel, with IP X0D protection
- Energy efficiency class B both in heating and DHW production
- Return temperature up to 37 °C
- Ease of maintenance: combustion chamber, flues battery, control panel and hydraulic fittings are easy to access
- Available as accessory the electronic kit to control up to three direct zones

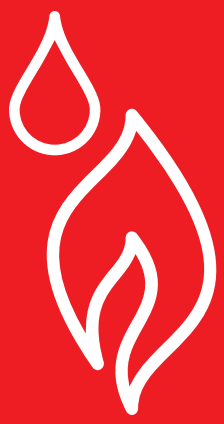
GITRÈ 4-5-6: cast iron oil floor standing boilers for space heating.
GITRÈ 5 B/100: cast iron oil floor standing boilers for space heating and DHW production with the integrated 100 liters storage tank.

TECHNICAL DATA

Description	Output 80°/60° max kW	Input min - max kW	Efficiency Pn (80/60 °C) %	Efficiency 30% Pn (37 °C return) %	DHW production Δt 35 °C l/min	Tank capacity liters	Energy efficiency class		Code
LOW NOX VERSION - HEATING ONLY									
GITRÈ 4	23.8	25	95.3	97.4	-	-	B	-	**20123950**
GITRÈ 5	30.7	32	96.1	97.2	-	-	B	-	**20123952**
GITRÈ 6	38.5	40	96.2	97.3	-	-	B	-	**20123953**
LOW NOX VERSION - HEATING AND DHW PRODUCTION WITH TANK									
GITRÈ 5 B/100	30.7	32	96.1	97.2	10.2	100	B	B	**20123954**

ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
Electrical multi-zone kit	**20168656**



WATER-HEATERS

HEAT PUMPS

AIR/WATER HEAT PUMP

DOMESTIC HOT WATER

NEXAQUA

NEXAQUA 80-120

page 202

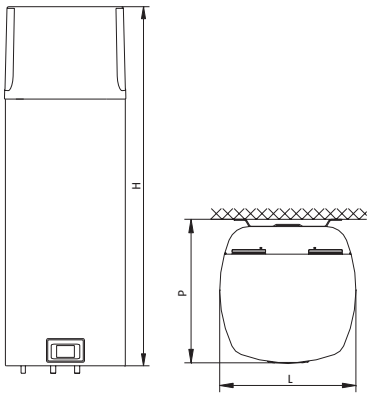
NEXPRO 300 PLUS

NEXPRO 300 PLUS

page 203

DHW air-water heat pump

NexAqua



ERP

- Highest efficiency energy efficiency class A+

Description	H mm	L mm	P mm
NexAqua 80-80 Plus	1197	506	533
NexAqua 120-120 Plus	1497	506	533

NexAqua is Riello solution specifically designed to enhance DHW production in domestic applications. The unit consists mainly of a mini heat pump and a tank. The mini-heatpump, located in the upper part of the tank, heat the water contained in the in the 80-120 liters tank up to 55 °C in heat pump operation and up to 75 °C thanks to the additional electrical resistances.
A centrifugal fan sucks the air and allows the heat pump to operate in recirculation or in particular installation places, through pipes up to 15 m length with a DN 125 diameter. The energy recovered in this way is then transferred to water by an external exchanger located around the external surface of the tank, thus allowing a money-saving maintenance.
The high efficiency of NexAqua derives from a refrigeration circuit in R134A, which heat water up to 55 °C.
The tank is provided with 2 electrical resistances of 1,0 kW (each) as standard supply.

- Touch Screen Display
- High efficiency coefficient
- 2 additional electrical resistances of 1,0 kW (each) as standard
- Centrifugal fan with high available pressure for air duct systems
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

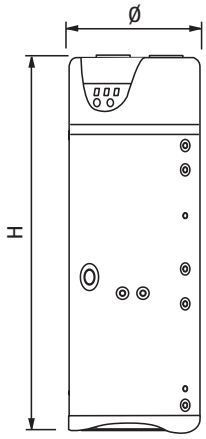
TECHNICAL DATA

Description	Firing rate	Maximum power absorption average (2) W	Efficiency coefficient (1) COP	Air flow rate m³/h	Recovery time h:min (1)	Volume liters	Energy efficiency class (3)	Code
NexAqua 80	+7/35 °C	350	3.1	100-230	4:40	80	A+	**20075560**
NexAqua 80 Plus	-7/35 °C	350	3.1	100-230	4:40	80	A+	**20075563**
NexAqua 120	+7/35 °C	350	3.1	100-230	6:40	120	A+	**20075562**
NexAqua 120 Plus	-7/35 °C	350	3.1	100-230	6:40	120	A+	**20075565**

Performance values refer to the following conditions:
(1) Compliance with EN 16147: room air temperature 15 °C with 74% humidity, DHW from 10 °C to 55 °C
(2) Value refers to heat pump operation without additional electrical resistances
(3) M load profile

DHW air-water heat pump

NexPro 300 Plus



ERP

- Highest efficiency energy efficiency class A+

Description	H mm	Ø mm	Net weight kg
NexPro 300 Plus	1870	660	122
NexPro 300 S Plus	1870	660	137
NexPro 300 CS Plus	1870	660	155

NexPro 300 Plus is the Riello solution dedicated to domestic hot water production in residential applications.
The unit consists of a heat pump and a tank with 300 l capacity. The heat pump, placed directly on the upper part of the tank, uses the thermal energy of the air to heat the water contained in the tank.
The air is sucked by a centrifugal fan that allows the heat pump to operate in recirculation or through pipes up to 10 m length with a DN 160 diameter. The energy recovered is then transferred to water by an external exchanger located around the external surface of the tank, thus avoiding maintenance costs.
The high efficiency of NexPro 300 Plus derives from a refrigeration circuit in R134A, a high efficiency compressor, an electronic expansion valve and a bypass valve for hot gases to allow the operation up to -5 °C.
The tank is provided with a double enameled coating (DIN 4753) and a 1,5 kW electrical resistance as standard supply. The resistance accomplishes the four main functions: additional heating, frost protection, emergency heating and anti-legionella protection.
The whole system is managed and adjusted by an "intelligent" control device, to allow the best operation of each component.

- DHW production up to a temperature of 60 °C
- High efficiency coefficient
- Additional electrical resistance of 1,5 kW as standard
- Centrifugal fan with high available pressure for air duct systems
- Double enameled DHW tank (DIN 4753)
- Solar integration through RSS pump station
- Operation range -5 °C/+32 °C
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

TECHNICAL DATA

Description	Average heating capacity 50 °C (1) W	Efficiency coefficient (1) COP	Power absorption average (1) W	Recovery time (1) h:m	Air flow rate m³/h	Volume liters	Energy efficiency class (2)	Code
DHW								
NexPro 300 Plus	1950	2.92	488	7:22	450	300	A+	**20125639**
DHW + SOLAR SYSTEM								
NexPro 300 S Plus	1950	2.92	488	7:22	450	295	A+	**20125640**
DHW + BOILER + SOLAR SYSTEM								
NexPro 300 CS Plus	1950	2.92	488	7:22	450	290	A+	**20125642**

Performance values refer to the following conditions:
(1) Compliance with EN 16147: room air temperature 15 °C with 71% humidity, DHW from 15 °C to 54 °C
(2) Load profile

ACCESSORIES

Description	Code
RSS MRS	**20116166**

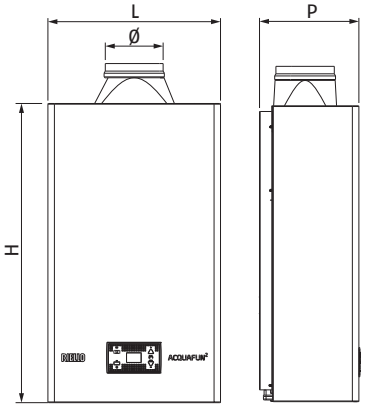
LOW NOx INSTANTANEOUS – GAS

	INDOOR	OUTDOOR
CONVENTIONAL FLUE	 ACQUAFUN² LN ACQUAFUN² 11 (19,4 kW-11 l/min)* ACQUAFUN² 14 (24,4 kW-14 l/min)* page 206	
ROOM-SEALED	 RIELLO MINI LN RIELLO MINI 11 LN (19,9 kW-11 l/min)* RIELLO MINI 13 LN (22,5 kW-13 l/min)* RIELLO MINI 17 LN (27,6 kW-17 l/min)* page 207	 RIELLO MINI EVO EXT LN RIELLO MINI 11 EVO EXT LN (19,9 kW-11 l/min)* RIELLO MINI 11 Evo EXT LN (22,5 kW-13 l/min)* RIELLO MINI 17 EVO EXT LN (27,6 kW-17 l/min)* page 208

* DHW production with ΔT = 25 °C

Conventional flue low NOx instantaneous gas water heater

Acquafun² LN



ERP LOW NOx

- Natural gas and LPG
- Conventional flue
- Automatic battery-powered ignition
- Reduced NOx emissions

Description	H mm	L mm	P mm	ø mm	Net weight kg
ACQUAFUN² 11 LN	675	350	230	110	12
ACQUAFUN² 14 LN	675	400	230	130	12

Acquafun2 LN is the open chamber water heater that is quick and easy to install without electrical connections because the power supply comes from a battery. It is available in two models: 11 and 14 litres. Water heater with low NOx emissions <56 mg/kWh.

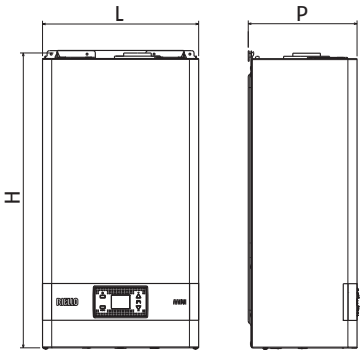
- Instantaneous gas water heater for indoor installation
- User interface with backlit display, intuitive control keys and battery replacement LED
- Auto-adaptive system with thermostatic device
- Automatic ignition using the battery; 2 batteries supplied (1.5 Volt – size D)
- The continuous flame modulation allows the selected temperature to remain constant when the water pressure ad output varies optimising the combination at the mechanical and thermostatic mixers
- Good flame stability
- Temperature probe on the water outlet
- Thanks to its particularly compact dimensions it can be installed in confined areas of the home

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate l/min.	Fuel	Energy efficiency class	Code
VERSION WITH ROOM-SEALED WITH NATURAL DRAFT - AUTOMATIC BATTERY IGNITION					
ACQUAFUN² 11 LN	19.4-22.0	11.0	NG	A	**20149827**
ACQUAFUN² 11 LN	18.3-21.0	11.0	LPG	A	**20149831**
ACQUAFUN² 14 LN	24.4-28.0	14.0	NG	A	**20149833**
ACQUAFUN² 14 LN	24.7-28.0	14.0	LPG	A	**20149834**

Room sealed low N0x instantaneous gas water heater

RIELLO MINI LN



- Natural gas and LPG
- Room-sealed
- Electronic ignition
- Reduced N0x emissions

Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 LN	642	340	237	19
RIELLO MINI 13 LN	642	340	237	19
RIELLO MINI 17 LN	640	400	246	21

Riello Mini is a small boiler intended specifically to generate domestic hot water. It is available in models with 11, 13 and 17 litres per minute. Water heater with low N0x emissions <56 mg/kWh.

- Instantaneous gas water heater for indoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Assembly template and power cable supplied.

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate l/min.	Fuel	Energy efficiency class	Notes	Code
VERSION WITH FORCED DRAFT CONVENTIONAL FLUE - ELECTRONIC IGNITION						
RIELLO MINI 11 LN	19.9-22.2	11.0	NG	A	(1)(2)	**20143047**
RIELLO MINI 11 LN	19.9-22.2	11.0	LPG	A	(1)(2)	**20143048**
RIELLO MINI 13 LN	22.5-25.0	13.0	NG	A	(1)(2)	**20143049**
RIELLO MINI 13 LN	22.5-25.0	13.0	LPG	A	(1)(2)	**20143050**
RIELLO MINI 17 LN	27.6-30.0	17.0	NG	A	(1)(2)	**20143051**
RIELLO MINI 17 LN	27.6-30.0	17.0	LPG	A	(1)(2)	**20143052**

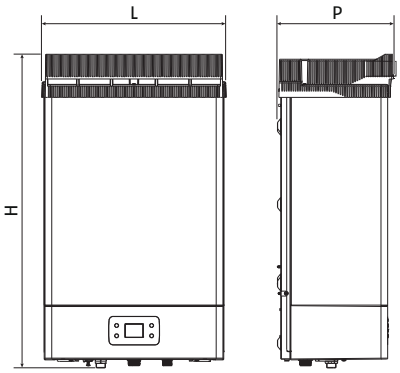
(1) For low temperature installation (down to -10 °C), the anti-freeze resistors kit is available (code 20148036)
(2) The water heater can be installed also outdoors in a partially protected place, where it is not exposed directly to the elements. For these installations we recommend using anti-freeze systems that can adequately protect the appliance from the risk of freezing. Contact the pre-sales service for clarification or support.

ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
Anti-freeze resistors kit	**20148036**
HYDRAULIC ACCESSORIES	
Water connection with tap	**4047624**

Outdoor room sealed low NOx instantaneous gas water heater

RIELLO MINI EVO EXT LN



ERP LOW NOx

- Gas-tight chamber
- Electronic ignition
- Type A2 outdoor installation
- Low NOx emissions

Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 EVO EXT LN	699	408	260	21
RIELLO MINI 13 EVO EXT LN	699	408	260	21
RIELLO MINI 17 EVO EXT LN	699	408	260	21

Riello Mini Evo Ext is a small boiler intended specifically to produce domestic hot water. It is available in models with 11, 13 and 17 litres per minute, for type A2 outdoor installations. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for outdoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Anti-freeze resistors as standard to provide operation with outdoor temperatures as low as -10 °C on 11 and 13 l/min versions and -7 °C on the 17 l/min version
- Assembly template and power cable supplied.

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate l/min.	Fuel	Energy efficiency class	Code
VERSION WITH FORCED DRAUGHT-ELECTRONIC IGNITION GAS-TIGHT CHAMBER					
RIELLO MINI 11 EVO EXT LN	19.9-22.2	11.0	NG	A	**20144208**
RIELLO MINI 13 EVO EXT LN	22.5-25.8	13.0	NG	A	**20144210**
RIELLO MINI 17 EVO EXT LN	27.6-30.0	17.0	NG	A	**20144234**

ACCESSORIES

Description	Code
COMBUSTION ACCESSORIES	
LPG conversion kit (MINI 11 EVO EXT LN)	**20155581**
LPG conversion kit (MINI 13 EVO EXT LN)	**20155583**
LPG conversion kit (MINI 17 EVO EXT LN)	**20157837**
HYDRAULIC ACCESSORIES	
Water connection with tap	**4047624**

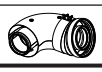
FLUE OPTION SYSTEMS

TWIN FLUE GAS EXHAUST SYSTEM Ø80 mm MADE OF METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
	Twin system without flue gas analysis outlet	Met	(1)	**1220329**
	Twin system connection kit	Met	(1)(3)	**20162668**
	Twin system connection kit	Met	(1)(4)	**20162669**
	Bend 45° Ø80 with gasket	Met	(1)	**20162295**
	Bend 90° with gasket	Met	(1)	**1220079**
	Extension 100 cm with gasket	Met	(1)	**1220269**
	Extension 50 cm with gasket	Met	(1)	**1220149**
	Extension 195 cm with gasket	Met	(1)	**1220229**
	Type B22 flue gas exhaust kit for open air installation	Met	(1)	**20162455**
	Air suction terminal	Met	(1)	**1220109**
	Flue gas exhaust terminal	Met	(1)	**1220119**
	Spacer ring/support for Ø80 pipes (4 pieces)			**20137532**
	Horizontal condensation collection kit	Met		**1220039**
	Vertical condensation collection kit	Met		**1220049**
	Terminal for Ø80 mm pipes	Met	(1)	**20162443**
	Bend 90° Ø80 mm with inspection	Met	(1)	**20162297**

(1) P1 pressure level according to EN 1443
(2) H1 pressure level according to EN 1443
(3) For Mini 11-13 LN versions
(4) For Mini 17 LN version
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length

COAXIAL FLUE GAS EXHAUST SYSTEM Ø60/100 mm MADE OF PP/METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
	Vertical discharge kit	Met/Met	(1)	**20163422**
	Coaxial discharge terminal kit	Met/Met	(1)	**20163409**
	Telescopic coaxial discharge terminal kit (from 430 to 735 mm)	Met/Met	(1)	**20163412**
	Coaxial extension (75 cm)	Met/Met	(1)	**20163392**
	Double coaxial extension (147 cm)	Met/Met	(1)	**20163394**
	Coaxial bend 90°	Met/Met	(1)	**20163334**
	Coaxial bend 45°	Met/Met	(1)	**20163330**
	Tile for flat roof	Nylon		**20135579**
	Universal lead tile	Nylon		**20132050**
	Vertical coaxial condensation collection kit	Met/Met		**20163403**
	Horizontal coaxial condensation collection kit	Met/Met		**20163400**
	Clamps kit H 45 mm with gasket Ø100 mm (4 pieces)			**20163427**
	Spacer ring/support for Ø100 pipes (10 pieces)			**20135584**
	Telescopic manifold 60-100 mm (from 165 to 220 mm)	Met/Met	(1)	**20163396**
	Combustion analysis sockets kit			**20163430**
	Bend 90° Ø60 -100 mm with inspection	Met/Met	(1)	**20163390**
	Bend adaptor kit Ø60-100 mm (for replacing Mini 11 and 13 with rear flue gas exhaust)	Met/Met	(1)	**20122792**

(1) P1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length

SOLAR THERMAL AND CYLINDER

SOLAR SYSTEMS

SYSTEMS FOR DHW PRODUCTION

FLAT PLATE SOLAR COLLECTOR

FORCED CIRCULATION

2 FITTINGS

SISTEMA RPS 25/2 EVO

200 liters
300 liters
430 liters

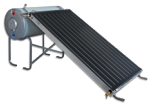
RPS 25/4 SYSTEM

200 liters
300 liters
430 liters
550 liters
800 liters
1000 liters

page 217

NATURAL CIRCULATION

4 FITTINGS



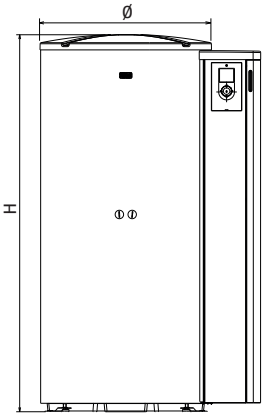
CSNA 20 RS SYSTEM

150 liters
200 liters
220 liters
300 liters

page 221

Systems for DHW production - Forced circulation

Sistema RPS 25/2 EVO



ERP

- Domestic hot water production

Complete and integrated high profile system for the production of domestic hot water, dedicated to household customers. It consists of all the elements necessary for the construction of the solar system and is designed for a simple, fast and safe installation.
The system consists of:

- High efficiency RPS 25/2 EVO solar collectors, thanks to the aluminium absorber treated with TiNOx Energy Al selective deposition and the excellent insulation lower than 40 mm with aluminium reflective element; they have a containment structure consisting of a painted aluminium frame.
- RBS 2S Ready-i double-coil steel heater, with excellent aesthetic finishes (embossed ABS), high energy performance (class B) and internal glazing. The boiler is complete with a modulating circulator pump, safety devices, load valves, non-return valve, delivery and return thermometers, pressure gauge, EVOSOL control unit; all these components are already assembled, wired and tested.
- Expansion reservoir, designed to withstand high temperatures.
- Antifreeze, non-toxic, biodegradable and biocompatible fluid.
- ¾" thermostatic mixer to optimize the system.
- 5-year warranty on both collectors and heater.
- Wide selection of bracket kits to meet all installation needs.

For more details on heater and solar panel please refer to the dedicated product pages.

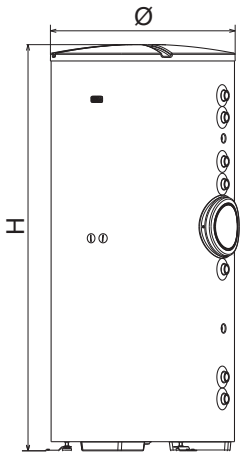
TECHNICAL DATA

Description	Solar collectors		Glycol quantity kg	Expansion vessel liters	Number of people	Solar cylinder				Notes	Code
	Number	Gross area m²				Capacity liters	H mm	Ø mm	Energy efficiency class		
RPS 25/2 EVO 200	1	2.3	10	18	2-3	208	1338	604	B	(1)	**20134807**
RPS 25/2 EVO 300	2	4.6	10	18	4-5	301	1838	604	B	(1)	**20134808**
RPS 25/2 EVO 430	3	6.9	15	24	6-7	442	1644	755	B		**20139716**

(1) Components supplied in a single pallet.
All solar systems include: solar collectors, bivalent solar heater with hydraulic unit and integrated EVOSOL solar regulator, glycol, expansion reservoir and thermostatic mixer.

Systems for DHW production - Forced circulation

RPS 25/4 System



ERP

- Domestic hot water production

Complete and integrated system for the production of domestic hot water, dedicated to household customers.
It consists of all the elements necessary for the construction of the solar system and is designed for a simple and safe installation.
The system consists of:

- High-efficiency RPS 25/4 solar collectors, thanks to the selective absorber TiNOx Energy Al.
- The RSS MRS hydraulic unit is complete with a modulating circulator, safety devices, load valves, non-return valve, delivery and return thermometers, pressure gauge and EVOSOL control unit for solar system management.
- RBS 2S heater, in dual coil steel, internally glazed to ensure hygiene and facilitate cleaning of limescale deposits; with excellent aesthetic finishes (in embossed ABS) and energy performance.
- Expansion reservoir, designed to withstand high temperatures.
- Antifreeze, non-toxic, biodegradable and biocompatible fluid.
- ¾" thermostatic mixer to optimize the system.
- 5-year warranty on both collectors and heater.
- Wide selection of bracket kits to meet all installation needs.

For more details on heater, solar panel and hydraulic unit, refer to the dedicated product pages.

TECHNICAL DATA

Description	Solar collectors		Glycol quantity kg	Expansion vessel liters	Number of people	Solar cylinder				Notes	Code
	Number	Gross area m²				Capacity liters	H mm	Ø mm	Energy efficiency class		
RPS 25/4 200	1	2.3	10	18	2-3	208	1338	604	B	(1)	**20134809**
RPS 25/4 300	2	4.6	10	18	4-5	301	1838	604	B	(1)	**20134810**
RPS 25/4 430	3	6.9	15	24	6-7	442	1644	755	B	(1)	**20131990**
RPS 25/4 550	4	9.2	20	35	8-9	551	1988	755	B	(1)	**20131991**
RPS 25/4 800	5	11.5	20	50	10-11	731	1846	1000	B	(2)	**20131992**
RPS 25/4 1000	6	13.8	20	50	12-13	883	2171	1000	B	(2)	**20131993**

(1) Components provided in a single pallet.
(2) Heater supplied with insulation disassembled.
All solar systems include: solar collectors, bivalent solar tank with RSS hydraulic group with integrated EVOSOL solar regulator, glycol, expansion tank and thermostatic mixer.

ACCESSORIES FOR RPS 25/2 EVO AND RPS 25/4 – VERTICAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
Undertile brackets kit for 3 collectors		20104634
Undertile brackets kit for 4 collectors		20104635
Undertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640
Undertile adjustable brackets kit for 3 collectors		20104642
Undertile adjustable brackets kit for 4 collectors		20104643
Undertile adjustable brackets kit for 5 collectors		20104644
Undertile adjustable brackets kit for 6 collectors		20104645
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		
Inset kit for 1 collector		20145347
Inset kit for 2 collectors		20145351
Inset kit for 3 collectors		20148401
Inset kit for 4 collectors		20148404
Inset kit for 5 collectors		20149352
Inset kit for 6 collectors		20149353

(1) Optional component, to be installed at the highest point in the solar loop.
(2) Use one for each row of installed RPS 25/4 collectors.
Other available accessories at page 268.

ACCESSORIES FOR RPS 25/2 EVO AND RPS 25/4 - HORIZONTAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Welding fittings kit		20132221
Fittings kit for stainless steel hose		20132222
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //	(3)	20104698
Brackets kit for 2 collectors in //	(3)	20104699
Brackets kit for 3 collectors in //	(3)	20104701
Brackets kit for 4 collectors in //	(3)	20104704
Brackets kit for 5 collectors in //	(3)	20104705
Brackets kit for 6 collectors in //	(3)	20104708
HORIZONTAL INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof	(3)	20104711
Brackets kit for 2 collectors at 30° for flat roof	(3)	20104713
Brackets kit for 3 collectors at 30° for flat roof	(3)	20104718
Brackets kit for 4 collectors at 30° for flat roof	(3)	20104721
Brackets kit for 5 collectors at 30° for flat roof	(3)	20104722
Brackets kit for 6 collectors at 30° for flat roof	(3)	20104727
HORIZONTAL INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof	(3)	20104730
Brackets kit for 2 collectors at 45° for flat roof	(3)	20104732
Brackets kit for 3 collectors at 45° for flat roof	(3)	20104734
Brackets kit for 4 collectors at 45° for flat roof	(3)	20104737
Brackets kit for 5 collectors at 45° for flat roof	(3)	20104738
Brackets kit for 6 collectors at 45° for flat roof	(3)	20104150
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector	(3)	20104741
Undertile brackets kit for 2 collectors	(3)	20104742
Undertile brackets kit for 3 collectors	(3)	20104743
Undertile brackets kit for 4 collectors	(3)	20104745
Undertile brackets kit for 5 collectors	(3)	20104746
Undertile brackets kit for 6 collectors	(3)	20104748
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector	(3)	20104749
Undertile adjustable brackets kit for 2 collectors	(3)	20104750
Undertile adjustable brackets kit for 3 collectors	(3)	20104761
Undertile adjustable brackets kit for 4 collectors	(3)	20104762
Undertile adjustable brackets kit for 5 collectors	(3)	20104765
Undertile adjustable brackets kit for 6 collectors	(3)	20104768

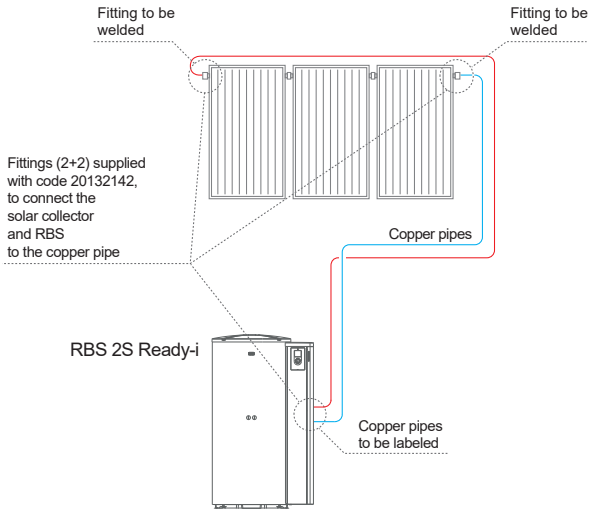
(1) Optional component, to be installed at the highest point in the solar loop.
(2) To be used for possible integration of the bracket kits. See note (3).
(3) Brackets kit complete with:
- "male" terminal fittings suitable for installations with delivery and return on the upper side of the row. For different installations, use the code 20094627 to complete;
- flexible connection fittings between the manifolds.

Other available accessories at page 268.

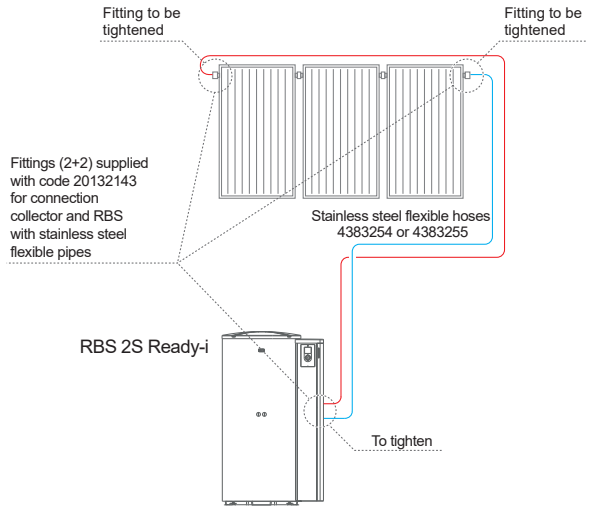
SOLAR SYSTEMS CONNECTION DIAGRAMS

RPS 25/2 SYSTEM

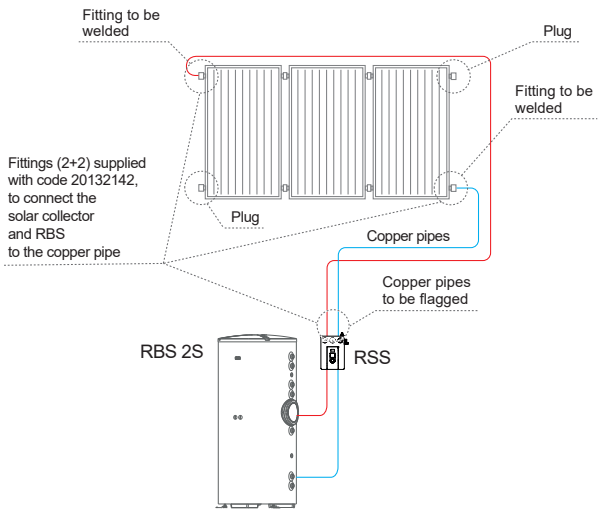
DN22 copper pipes connections

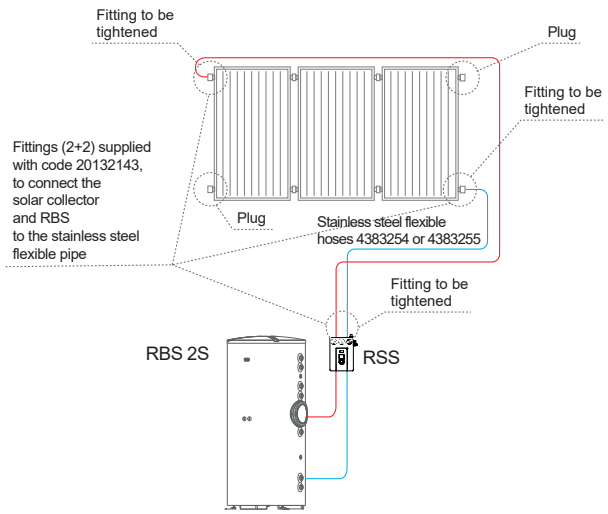


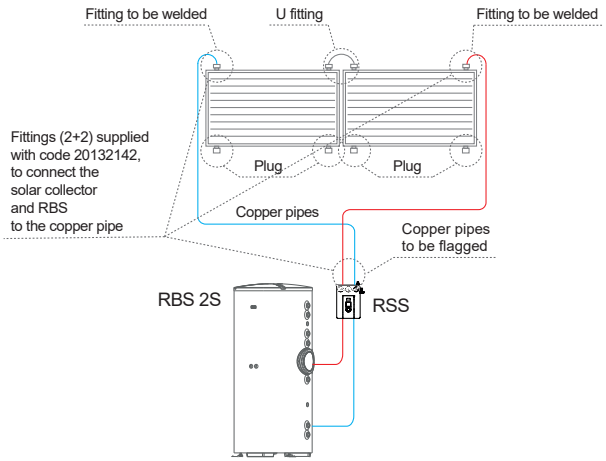
DN16 stainless steel pipes connections

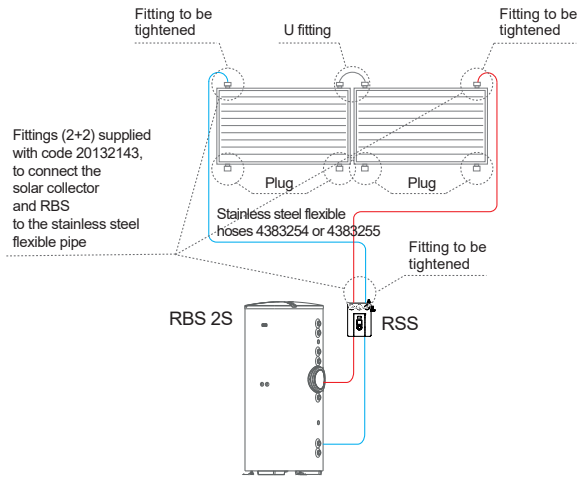


RPS 25/4 SYSTEM





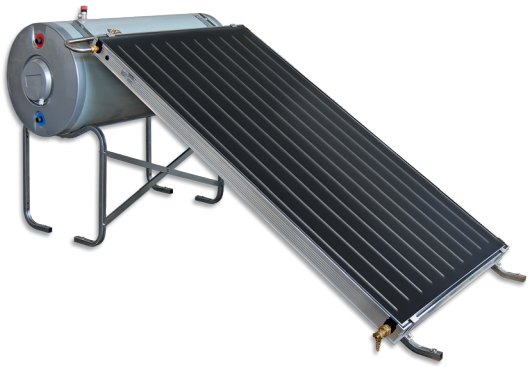


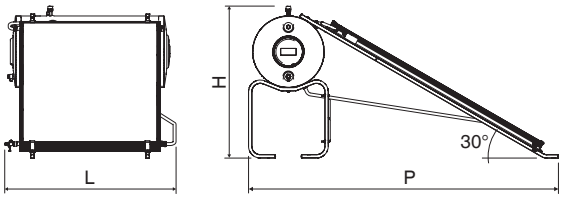


NoteS: stainless steel pipe recommended for up to 4 collectors.

Systems for DHW production – Natural circulation

CSNA 20 RS System





- Ready-to-install solar system for domestic hot water production
- Solar Keymark according to EN 12976

Description	H mm	L mm	P mm	Net weight kg
CSNA 20 RS 150/1 0°	720	1290	2570	94
CSNA 20 RS 200/1 0°	720	1290	2570	122
CSNA 20 RS 220/2 0°	720	2400	2570	143
CSNA 20 RS 300/2 0°	720	2400	2570	193
CSNA 20 RS 300/3 0°	720	3500	2570	200
CSNA 20 RS 150/1 30°	1135	1290	2315	112
CSNA 20 RS 200/1 30°	1135	1290	2315	136
CSNA 20 RS 220/2 30°	1135	2400	2315	162
CSNA 20 RS 300/2 30°	1135	2400	2315	198
CSNA 20 RS 300/3 30°	1135	3500	2315	236

Systems designed for the production of domestic hot water (up to 5 people), even in climatic zones with non optimal weather conditions. They consist of preassembled components and do not require pumps or electronic control devices, thus ensuring a simple and fast installation. The package includes:

- High efficiency solar collector CSAL 20 RS, well insulated, provided with aluminum absorber treated with selective deposition.
- Double chamber enamelled cylinder, with polyurethane insulation and magnesium anode.
- Fixing kits for the installation of the system: in parallel to the roof or inclined at an angle of 30° on flat surfaces.
- Non-toxic, biodegradable and biocompatible frost-protection liquid.
- Single-phase supplementary electrical resistance (to be used as frost protection too) available as an accessory. The system is provided with Solar Keymark certification according to UNI EN 12976 and is equipped with solar panels provided with solar keymark certification according to UNI EN 12975 and 9806.

TECHNICAL DATA

Description	Solar collectors		Glicol kg	Number of people	Capacity liters	Notes	Code
	Number	Gross area m²					
CSNA 20 RS 150/1 0°	1	1.91	2.5	2-3	153	(1)	**20099761**
CSNA 20 RS 200/1 0°	1	1.91	2.5	2-3	202	(1)	**20157521**
CSNA 20 RS 220/2 0°	2	3.82	5	3-4	223	(1)	**20099764**
CSNA 20 RS 300/2 0°	2	3.82	5	4-5	278	(1)	**20099766**
CSNA 20 RS 300/3 0°	3	5.73	7.5	4-5	278	(1)	**20099767**
CSNA 20 RS 150/1 30°	1	1.91	2.5	2-3	153	(2)	**20087393**
CSNA 20 RS 200/1 30°	1	1.91	2.5	2-3	202	(2)	**20157732**
CSNA 20 RS 220/2 30°	2	3.82	5	3-4	223	(2)	**20087671**
CSNA 20 RS 300/2 30°	2	3.82	5	4-5	278	(2)	**20087672**
CSNA 20 RS 300/3 30°	3	5.73	7.5	4-5	278	(2)	**20087673**

(1) Equipped with brackets for sloping roof
(2) Equipped with brackets for flat roof, tilt 30°

ACCESSORIES

Description	Code
1" ¼ - 1,5 kW electrical resistance kit	**20006605**
1" ¼ - 3,0 kW single-phase electrical resistance kit	**20094253**
¾" thermostatic mixing valve kit	**20020778**
2,5 kg glycol kit	**20006441**
5,0 kg glycol kit	**4383085**

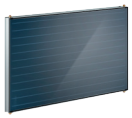
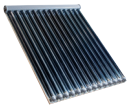
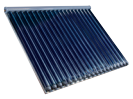
Other available accessories at page 268.

SOLAR SYSTEM ACCESSORIES

Description	Notes	Code
STAINLESS STEEL FITTINGS AND PIPES		
Fittings kit to be tightened to connect the CSV R solar collectors with copper pipes and for the connection between CSV R solar collectors		20027281
2-fittings kit to be tightened (90°) to connect the solar collectors with DN18 copper pipes		20055236
Kit of two fittings to tighten terminals RPS 25/4 and CSAL 20 RS		20094627
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		20132219
Fittings kit to be tightened to connect the CSV R solar collectors with flexible stainless-steel pipes (not to be used between solar collectors)		20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/ stainless steel pipe DN16)		20132220
Weld-on fittings kit (contains: 2 weld-on fittings for connection to the RPS 25/2 EVO, RPS 25/4, CSAL 20 RS collectors and 2 fittings for connection to the RSS hydraulic unit or directly to the solar tank)		20132142
Fittings kit for stainless steel pipe (contains: 2 fittings for connection to the RPS 25/2 EVO, RPS 25/4, CSAL 20 RS collectors and 2 fittings for connection to the RSS hydraulic unit or directly to the solar tank)		20132143
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(1)	4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(1)	4383255
FLOW REGULATORS		
Flow rate regulator 12 (DN20; 2-12 l/min; kvs=2,2 m^3/h)		20011536
Manual solar air vent kit		20026577
HEAT TRANSFER FLUIDS		
5 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383085
10 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383059
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
EXPANSION VESSELS		
18L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383052
24L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383053
35L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383054
OTHER ACCESSORIES		
¾" thermostatic mixing valve kit		20020778
Differential electronic thermostat		20039694

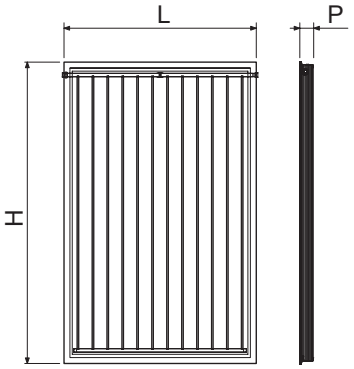
(1) Stainless steel flexible hose kit, insulated, without fittings.

SOLAR COLLECTORS

		VERTICAL		HORIZONTAL
		2 FITTINGS	4 FITTINGS	4 FITTINGS
FLAT PLATE	SURFACE 2,30 m²	 RPS 25/2 EVO Packages: 1 pc 2 - 5 pcs		
			 RPS 25/4 Packages: 1 pc 2 - 5 pcs page 227	 RPS 25/4 Packages: 1 pc 2 - 5 pcs page 227
	SURFACE 1,91 m²		 CSAL 20 RS Packages: 1 pc 2 - 3 - 7 pcs page 230	
VACUUM TUBES	SURFACE 2,77 m²	 CSV 25 R Packages: 1 pc 5 pcs page 232		
	SURFACE 3,91 m²	 CSV 35 R Packages: 1 pc 5 pcs page 232		

Vertical flat solar panels

RPS 25/2 EVO



- Vertical installation 2.3 m²
- Aluminium frame
- Harp absorber
- 2 fittings
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/2 EVO 2 collectors	2004	1195	86	83,0
RPS 25/2 EVO 5 collectors	2004	1195	86	207,5

The solar collector RPS 25/2 EVO is equipped with an aluminium capturing plate with a selective finish in TiNOx Energy Al that allows an energy absorption equal to 95% of the direct exposure on the surface and limits its emission to 4%.
The harp pipes that contain the heat transfer fluid for heat transfer to the system are welded on the plate.
The solar glass is highly transparent, obtained with SEMI-SAND treatment and has a double anti-reflective layer that guarantees 96% transmissivity.
The insulation is made of glass wool, 40 mm thick and is positioned at the bottom. The glass and the insulation guarantee high efficiency even in the presence of not optimal climatic conditions.

- Two male and female 1" connections, of floating type, which facilitate the in-line connection of the collectors and their maintenance
- Possibility of connecting in series up to 6 collectors
- Aesthetic finish thanks to the painted frame
- Protective film supplied as standard to protect against overheating before commissioning the system
- Compliance with EN 12975, ISO 9806 and Solar Keymark certificate
- Wide range of accessories and fixing systems to guarantee maximum installation versatility.
- 5-year warranty.

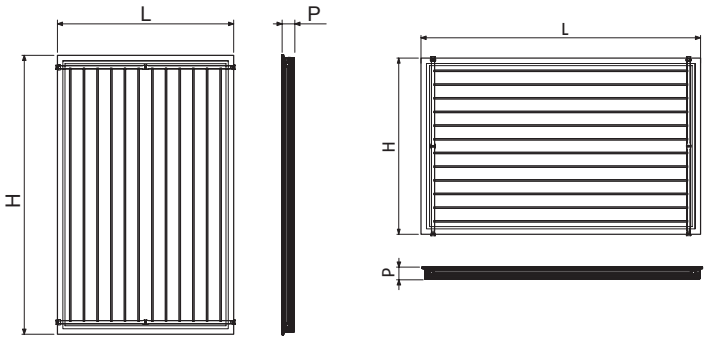
TECHNICAL DATA

Description	Solar collectors		Absorber data			Stagnation temperature °C	Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²			
RPS 25/2 EVO	2.30	2.14	0.821	4.41	0.0060	200	(1)	**20127134**
RPS 25/2 EVO 2 collectors	4.60	4.30	0.821	4.41	0.0060	200	(2)	**20140506**
RPS 25/2 EVO 5 collectors	11.50	10.75	0.821	4.41	0.0060	200	(2)	**20140508**

(1) Collector packed individually.
(2) In a single pallet of 2 or 5 pieces according to the chosen solution.

Vertical / horizontal flat solar panels

RPS 25/4



- Flat plate solar collectors both for vertical and horizontal installation (2,3 m²)
- Aluminium frame
- Aluminium absorber with high selective coating (TiNOx Energy Al)
- 4 fittings
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
RPS 25/4	1195	2004	85	44
RPS 25/4 2 collectors	1195	2004	85	88
RPS 25/4 5 collectors	1195	2004	85	220

The solar collector RPS 25/4 can be used both for vertical and horizontal installations.
It is equipped with an aluminum absorber plate with high selective finishing in TiNOx Energy Al that allows 95% energy absorption on the surface and reduce its emission to 4%. On the plate are welded harp-shaped pipes through which the heat-transfer fluid runs. The high transparency sun glass guarantees high transmissivity.
Along with the rock wool insulation, that is 40 mm thickness, guarantees high efficiency even in case of bad weather conditions.
The solar collector is provided with 4 x 1" floating fittings that ease the connection of collectors and the maintenance operations. It is possible to connect in series up to 6 panels in case of horizontal installations and up to 10 panels in case of vertical installations.
A film is provided as standard to protect the collector from overheating before the system starts working.
A wide range of accessories and fixing systems is available to ensure maximum installation flexibility.
The solar collector complies with EN 12975, ISO 9806 and is Solar Keymark certified.
5 year warranty.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Stagnation temperature °C	Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²			
RPS 25/4	2.30	2.14	0.802	4.28	0.0064	200	(1)	**20127137**
RPS 25/4 2 collectors	4.60	4.30	0.802	4.28	0.0064	200	(2)	**20140510**
RPS 25/4 5 collectors	11.50	10.75	0.802	4.28	0.0064	200	(2)	**20140511**

η0 = optical efficiency.
a1, a2 = heat loss coefficients.
(1) One single collector in one package
(2) Collectors supplied in pallet of 2 or 5 pcs

ACCESSORIES FOR RPS 25/2 EVO AND RPS 25/4 - VERTICAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Kit of two fittings to tighten terminals		20094627
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
Undertile brackets kit for 3 collectors		20104634
Undertile brackets kit for 4 collectors		20104635
Undertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640
Undertile adjustable brackets kit for 3 collectors		20104642
Undertile adjustable brackets kit for 4 collectors		20104643
Undertile adjustable brackets kit for 5 collectors		20104644
Undertile adjustable brackets kit for 6 collectors		20104645
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		
Inset kit for 1 collector		20145347
Inset kit for 2 collectors		20145351
Inset kit for 3 collectors		20148401
Inset kit for 4 collectors		20148404
Inset kit for 5 collectors		20149352
Inset kit for 6 collectors		20149353

(1) Optional component, to be installed at the highest point in the solar loop
For vertical coil installations with more than 6 collectors, the following solutions are recommended:
- for battery of 7: a kit of 5 + a kit of 2 + a coupling joint (code 20093048);
- for batteries of 8: a kit of 6 + a kit of 2 + a coupling joint (code 20093048);
- for batteries of 9: a kit of 6 + a kit of 3 + a coupling joint (code 20093048);
- for batteries of 10: a kit of 6 + a kit of 4 + a coupling joint (code 20093048).

Other available accessories at page 268.

ACCESSORIES FOR RPS 25/2 EVO AND RPS 25/4 - HORIZONTAL INSTALLATION

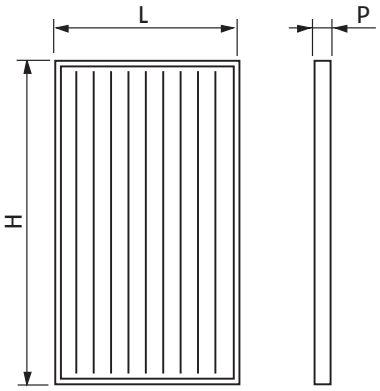
Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132221
Fittings kit for stainless steel pipe		20132222
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //	(3)	20104698
Brackets kit for 2 collectors in //	(3)	20104699
Brackets kit for 3 collectors in //	(3)	20104701
Brackets kit for 4 collectors in //	(3)	20104704
Brackets kit for 5 collectors in //	(3)	20104705
Brackets kit for 6 collectors in //	(3)	20104708
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof	(3)	20104711
Brackets kit for 2 collectors at 30° for flat roof	(3)	20104713
Brackets kit for 3 collectors at 30° for flat roof	(3)	20104718
Brackets kit for 4 collectors at 30° for flat roof	(3)	20104721
Brackets kit for 5 collectors at 30° for flat roof	(3)	20104722
Brackets kit for 6 collectors at 30° for flat roof	(3)	20104727
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof	(3)	20104730
Brackets kit for 2 collectors at 45° for flat roof	(3)	20104732
Brackets kit for 3 collectors at 45° for flat roof	(3)	20104734
Brackets kit for 4 collectors at 45° for flat roof	(3)	20104737
Brackets kit for 5 collectors at 45° for flat roof	(3)	20104738
Brackets kit for 6 collectors at 45° for flat roof	(3)	20104150
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector	(3)	20104741
Undertile brackets kit for 2 collectors	(3)	20104742
Undertile brackets kit for 3 collectors	(3)	20104743
Undertile brackets kit for 4 collectors	(3)	20104745
Undertile brackets kit for 5 collectors	(3)	20104746
Undertile brackets kit for 6 collectors	(3)	20104748
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector	(3)	20104749
Undertile adjustable brackets kit for 2 collectors	(3)	20104750
Undertile adjustable brackets kit for 3 collectors	(3)	20104761
Undertile adjustable brackets kit for 4 collectors	(3)	20104762
Undertile adjustable brackets kit for 5 collectors	(3)	20104765
Undertile adjustable brackets kit for 6 collectors	(3)	20104768

(1) Optional component, to be installed at the highest point in the solar loop.
(2) To use eventually to integrate the brackets kits; see note (3).
(3) The brackets kit include:
- "male" terminal fittings, as required in installation with flow/return on the upper side (as shown in the manual). In case of a different installation, use code 20094627;
- flexible connections between collectors.

Other available accessories at page 268.

Solar collectors - Forced circulation

CSAL 20 RS



- Flat plate solar collectors for vertical installation (2 m²)
- Aluminium frame
- Copper harp-shaped exchanger
- Aluminium absorber with high selective coating (TiNOx Energy Al)
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
CSAL 20 RS	1818	1097	70	30
CSAL 20 RS 2 collectors	1818	1048	70	60
CSAL 20 RS 3 collectors	1818	1048	70	90
CSAL 20 RS 7 collectors	1818	1048	70	210

Solar collector CSAL 20 RS is provided with an alluminium absorber plate with high selective coating made of TiNOx Energy Al, wich allows an energy absorption of 95% from the sun's rays on the surface and reduces its emission to 4%. The absorber plate is ultrasonically welded to 10 copper harp-shaped pipes trough wich the heat-transfer fluid runs.
The tempered solar glass, wich is 3.2 mm thickness, along with the rock wool insulation, wich is 30 mm thickness on the bottom side, ensure high efficiency even in case of bad weather conditions.
The solar collector has been designed with four 1'' fittings to make the connection in series of collectors easier (up to a max of 6) and to ensure low head losses (the heat-trasfer liquid flows trough the collectors in parallel) and high efficiency.
Two of the four connections need to be closed by brass screw plugs.
A film is provided as standard to protect the collector from overheating before the system starts working.
The solar collector complies with the EN 12975 directive and is Solar Keymark certified.
A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Maximum temperature °C	Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²			
CSAL 20 RS	1.91	1.77	0.781	4.98	0.0005	192	(1)	**20094521**
CSAL 20 RS 2 collectors	3.82	3.54	0.781	4.98	0.0005	192	(2)	**20104593**
CSAL 20 RS 3 collectors	5.73	5.31	0.781	4.98	0.0005	192	(3)	**20104595**
CSAL 20 RS 7 collectors	13.37	12.39	0.781	4.98	0.0005	192	(4)	**20104596**

(1) One single collector in one package.
(2) Collectors supplied in pallet of 2 pcs.
(3) Collectors supplied in pallet of 3 pcs.
(4) Collectors supplied in pallet of 7 pcs.

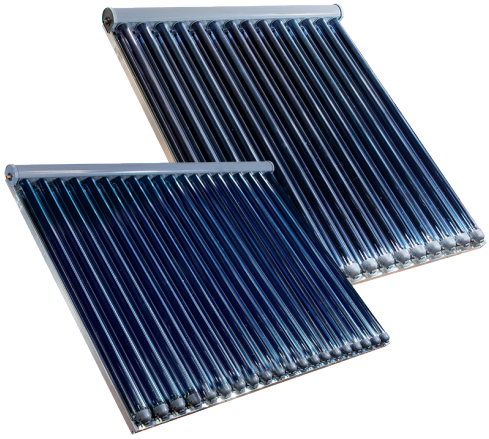
ACCESSORIES

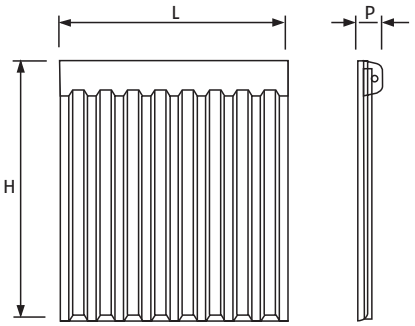
Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
Replacement kit for CSAL 20 R and CSL 20 R		20108733
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104652
Brackets kit for 2 collectors in //		20104654
Brackets kit for 3 collectors in //		20104656
Brackets kit for 4 collectors in //		20104659
Brackets kit for 5 collectors in //		20104660
Brackets kit for 6 collectors in //		20104662
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104664
Brackets kit for 2 collectors at 30° for flat roof		20104666
Brackets kit for 3 collectors at 30° for flat roof		20104667
Brackets kit for 4 collectors at 30° for flat roof		20104673
Brackets kit for 5 collectors at 30° for flat roof		20104675
Brackets kit for 6 collectors at 30° for flat roof		20104676
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104677
Brackets kit for 2 collectors at 45° for flat roof		20104679
Brackets kit for 3 collectors at 45° for flat roof		20104680
Brackets kit for 4 collectors at 45° for flat roof		20104682
Brackets kit for 5 collectors at 45° for flat roof		20104683
Brackets kit for 6 collectors at 45° for flat roof		20104684
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104685
Undertile brackets kit for 2 collectors		20104686
Undertile brackets kit for 3 collectors		20104687
Undertile brackets kit for 4 collectors		20104688
Undertile brackets kit for 5 collectors		20104690
Undertile brackets kit for 6 collectors		20104691
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTDTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104692
Undertile adjustable brackets kit for 2 collectors		20104693
Undertile adjustable brackets kit for 3 collectors		20104694
Undertile adjustable brackets kit for 4 collectors		20104695
Undertile adjustable brackets kit for 5 collectors		20104696
Undertile adjustable brackets kit for 6 collectors		20104697

(1) Optional component, to be installed at the highest point in the solar loop.
Other available accessories at page 268.

Solar collectors - Forced circulation

CSV R





- Vacuum tube solar collectors for vertical installation (2,77 m² for 14 tubes and 3,91 m² for 20 tubes)
- U-shaped copper exchanger
- Double-wall vacuum glass tubes (Sydney type)

Description	L mm	H mm	P mm	Net weight kg
CSV 25 R	1600	1730	145	52
CSV 25 R 5 collectors	8000	1730	145	260
CSV 35 R	2260	1730	145	74
CSV 35 R 5 collectors	11300	1730	145	370

Solar collectors CSV 25 R and CSV 35 R have respectively 14 and 20 vacuum double-walled glass Sydney tubes, containing a U-shaped copper pipe, which is mechanically fixed to an aluminium circumferential absorber, whose external surface is provided with the selective absorbing coat.
Copper pipes are connected in parallel and the heat-transfer liquid runs through them going downwards and then rising back again while absorbing heat from the direct solar irradiation reflected by a CPC mirror (Compound Parabolic Concentrator).
The double-walled glass tube contains a vacuum thermal insulation called "termos", ensuring high performances even in the event of sudden changes between the average operating temperature of the heat-transfer liquid and the ambient temperature, which are typical of those areas with very cold weather conditions or industrial applications.
The solar collector is provided with hydraulic fittings to be tightened on Ø18 pipes; it is possible to connect up to 6 collectors in series. Glass tubes and CPC reflecting mirror are easy to replace and do not require to empty the solar circuit.
The solar collector CSV R complies with the EN12975 directive and is Solar Keymark certified.
A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Maximum temperature °C	Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²			
CSV 25 R	2.77	2.69	0.700	1.15	0.011	268	(1)	**20023353**
CSV 25 R 5 collectors	13.85	13.45	0.700	1.15	0.011	268	(2)	**20028583**
CSV 35 R	3.91	3.84	0.700	1.15	0.011	268	(1)	**20023416**
CSV 35 R 5 collectors	19.55	19.20	0.700	1.15	0.011	268	(2)	**20028584**

(1) One single solar collector in one package.
(2) Pallet of 5 pcs of solar collectors.

ACCESSORIES

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be tightened to connect the CSV R solar collectors with copper pipes and for the connection between CSV R solar collectors		20027281
Fittings kit to be tightened to connect the CSV R solar collectors with flexible stainless-steel pipes (not to be used between solar collectors)		20027289
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
20 kg premixed glycol for CSV R (heat-transfer fluid ready to use, suitable for vacuum pipes collectors, frost protection up to -28 °C)		4383118
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Fixing kit in // for 1 collector CSV 25 R		20028595
Fixing kit in // for 2 collectors CSV 25 R		20028596
Fixing kit in // for 3 collectors CSV 25 R		20028597
Fixing kit in // for 4 collectors CSV 25 R		20028598
Fixing kit in // for 5 collectors CSV 25 R		20028600
Fixing kit in // for 6 collectors CSV 25 R		20028601
Fixing kit in // for 1 collector CSV 35 R		20031614
Fixing kit in // for 2 collectors CSV 35 R		20031615
Fixing kit in // for 3 collectors CSV 35 R		20031616
Fixing kit in // for 4 collectors CSV 35 R		20031617
Fixing kit in // for 5 collectors CSV 35 R		20031618
Fixing kit in // for 6 collectors CSV 35 R		20031619
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Fixing kit at 45° for 1 collector CSV 25 R		20028588
Fixing kit at 45° for 2 collectors CSV 25 R		20028589
Fixing kit at 45° for 3 collectors CSV 25 R		20028591
Fixing kit at 45° for 4 collectors CSV 25 R		20028592
Fixing kit at 45° for 5 collectors CSV 25 R		20028593
Fixing kit at 45° for 6 collectors CSV 25 R		20028594
Fixing kit at 45° for 1 collector CSV 35 R		20031620
Fixing kit at 45° for 2 collectors CSV 35 R		20031621
Fixing kit at 45° for 3 collectors CSV 35 R		20031622
Fixing kit at 45° for 4 collectors CSV 35 R		20031623
Fixing kit at 45° for 5 collectors CSV 35 R		20031624
Fixing kit at 45° for 6 collectors CSV 35 R		20031625

(1) Optional component, to be installed at the highest point in the solar loop.
NOTE: It is necessary to order the glycol and the suitable fittings.
Other available accessories at page 268.

SOLAR DHW AND STORAGE CYLINDERS

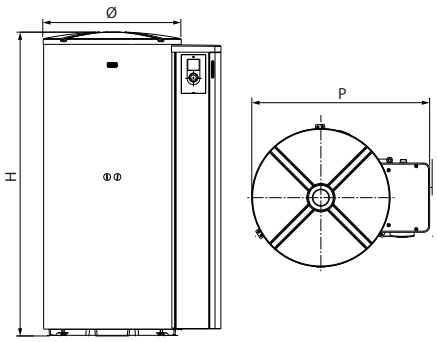
HEAT -EXCHANGERS (COILS)

	0 COIL	1 COILS	2 COILS	3 COILS	FLANGES*
DHW SOLAR CYLINDER		 RBC 1S 150-200-300 430-550-800 1000 liters page 243	 RIELLO RBS 2S Ready-i 200-300 430 liters page 236		 7200/3F HV PLUS 800-1000-1500 2000-3000 liters page 241
		 7200 HP 300-500 800 liters page 250	 RBS 2S 200-300-430-550 800-1000 liters page 239		
		 7200 V PRIME 200-300-430 550-800 1000 liters page 248	 7200/2 HV PLUS 1500-2000 liters page 241		
COMBINED STORAGE TANK		 7200 KOMBI PLUS 550-800 1000 liters page 254		 7200 KOMBISOLAR[3S] 430-550-750 1000 liters page 252	
PUFFER		 7000/S 1000-1500 liters page 256			 7000/F* 2000-3000 5000 liters page 256
HOT/COLD PUFFER	 7000 ACI PLUS 60-120-200-300 400-500-800 1000-1500 2000 liters page 258				

* Flanges for the insertion of heat-exchangers (coils).

Double-coil solar cylinders

Riello RBS 2S Ready-i



ERP

- Double-coil solar cylinder
- Domestic hot water production
- Equipped with pump station and differential controller
- Erp Ready – Energy efficiency class B

Description	H mm	P mm	Ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S Ready-i	1338	789	604	50	115
RBS 300 2S Ready-i CLASS A	1838	789	604	50	140
RBS 300 2S Ready-i	1838	789	604	50	140
RBS 430 2S Ready-i	1644	940	755	50	160

(*) Dimensions with insulation
(**) Insulation thikness

Steel double-coil solar cylinders of high energy efficiency (all models are class B), with embossed ABS finish. The thick insulation is obtained by direct foaming method and the internal glazed enamel treatment (vitrification, according to DIN 4753) ensures absolute hygiene and make cleaning easier.
The cylinder and the elliptic coils have been carefully designed to reach the best performances in terms of heat exchange, recovery time and stratification.
The column contains all the solar accessories, differential controller, in line hydraulic fittings and the inspection flange, placed between the two coils in order to facilitate cleaning and allow to use an additional electric resistance; all components are assembled, wired and tested. It is possible to install 2 cylinders of the same capacity in parallel in order to increase the volume and the exchange surface (RBS 2S Ready-i + RBS 2S + installation kit in parallel).
Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
RBS 200 2S Ready-i	208	99	10	62	B	**20119541**
RBS 300 2S Ready-i CLASS A	301	99	10	50	A	**20119547**
RBS 300 2S Ready-i	301	99	10	69	B	**20119542**
RBS 430 2S Ready-i	442	99	10	75	B	**20119543**

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S Ready-i	3.5	0.7	400	16.1	10	(1)
RBS 300 2S Ready-i CLASS A	4.0	0.8	572	23.0	10	(1)
RBS 300 2S Ready-i	4.0	0.8	572	23.0	10	(1)
RBS 430 2S Ready-i	5.0	1.0	774	31.4	10	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	Max operation pressure bar
RBS 200 2S Ready-i	3.5	0.7	10
RBS 300 2S Ready-i CLASS A	5.0	1.0	10
RBS 300 2S Ready-i	5.0	1.0	10
RBS 430 2S Ready-i	7.0	1.4	10

ACCESSORIES

Description	Code
Electronic anode kit	**20123853**
Curve kit for electronic anode	**20123851**
Recirculation kit	**20123849**
Integration kit with circulator (for 200 model)	**20123847**
Integration kit with circulator (for RBS 300-430 models)	**20123846**
Integration kit without circulator	**20123848**
Additional temperature probe kit for solar collector	**20125097**
Additional temperature probe kit for cylinder	**20123856**
Single-phase electrical resistance 1,5 kW	**20119911**
Single-phase electrical resistance 2,2 kW	**20119912**
Single-phase electrical resistance 3,0 kW	**20119913**
Three-phase electrical resistance 3,8 kW	**20119914**

PARALLEL INSTALLATION

Configuration	H mm	L mm	P mm
2x200 2S	1338	789	1218
2x300 2S	1838	789	1218
2x430 2S	1644	940	1520

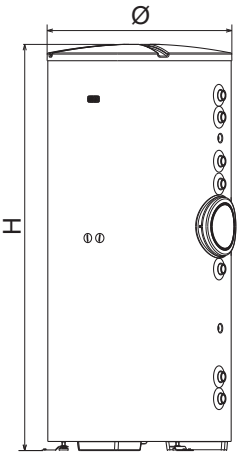
PARALLEL INSTALLATION ACCESSORIES

Description	Code
2 cylinders connection kit (models 200-300 liters)	**20120542**
2 cylinders connection kit (models 430 liters)	**20120543**

Connection kit can be completed with recirculation kit and integration kit without circulator (see Riello RBS "S Ready-i accessories).
For electronic anodes utilization you can refer to the specific accessories of cylinders Riello RBS 2S Ready-i and Riello RBS 2S.
For details regarding to the Riello RBS 2S Ready-i and RBS 2S consult the related pages.

Double-coil solar cylinders

RBS 2S



ERP

- Double-coil solar cylinder
- Domestic hot water production
- Erp Ready – Energy efficiency class B

Description	H mm	Ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
RBS 430 2S	1644	755	50	146
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

(*) Dimensions with insulation
(**) Insulation thikness

Steel double coil solar cylinders of high energy efficiency (all models are class B) and internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits. The RBS cylinders, with embossed ABS finish, are provided with a thick insulation obtained by direct foaming method for models up to 550 liters and made of removable shells for models 800 and 1000 (to be assembled).
The cylinder and the elliptic coils have been carefully designed to reach the best performance in terms of heat exchange, recovery time and stratification. The hydraulic connections are arranged on a single row, as well as the inspection flange between the two coils, in order to facilitate cleaning and to insert an additional electric resistance.
Through a specific kit, RBS 2S can operate in parallel with one RBS 2S Ready-i of the same capacity up to 550 liters (RBS 2S Ready-i + RBS 2S + installation kit in parallel). Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
RBS 200 2S	208	99	10	62	B		**20116675**
RBS 300 2S	301	99	10	69	B		**20116335**
RBS 430 2S	430	99	10	75	B		**20117339**
RBS 550 2S	551	99	10	85	B		**20116587**
RBS 800 2S	731	99	7	94	B	(1)	**20132268**
RBS 1000 2S	883	99	7	101	B	(1)	**20132269**

(1) Insulation to be assembled.

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m^2	DHW production l/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S	3.5	0.7	400	16.1	10	(1)
RBS 300 2S	4.0	0.8	572	23.0	10	(1)
RBS 430 2S	5.0	1.0	774	31.4	10	(1)
RBS 550 2S	5.0	1.0	774	31.4	10	(1)
RBS 800 2S	8.0	1.6	1240	50.0	7	(1)
RBS 1000 2S	8.0	1.6	1240	50.0	7	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m^2	Max operation pressure bar
RBS 200 2S	3.5	0.7	10
RBS 300 2S	5.0	1.0	10
RBS 430 2S	7.0	1.4	10
RBS 550 2S	9.0	1.8	10
RBS 800 2S	11.5	2.3	7
RBS 1000 2S	13.5	2.7	7

ACCESSORIES

Description	Code
Electric anode with plug	**20055206**
Curve for electronic anode kit	**20123851**
Thermometer kit	**20123850**
Single-phase electrical resistance 1,5 kW (for 200-550 liters models)	**20119911**
Single-phase electrical resistance 2,2 kW (for 200-550 liters models)	**20119912**
Single-phase electrical resistance 3,0 kW (for 200-550 liters models)	**20119913**
Three-phase electrical resistance 3,8 kW (for 200-550 liters models)	**20119914**
Single-phase electrical resistance 1,5 kW (for 800-1000 liters models)	**20131666**
Single-phase electrical resistance 2,2 kW (for 800-1000 liters models)	**20131667**
Single-phase electrical resistance 3,0 kW (for 800-1000 liters models)	**20131669**
Three-phase electrical resistance 3,8 kW (for 800-1000 liters models)	**20131670**

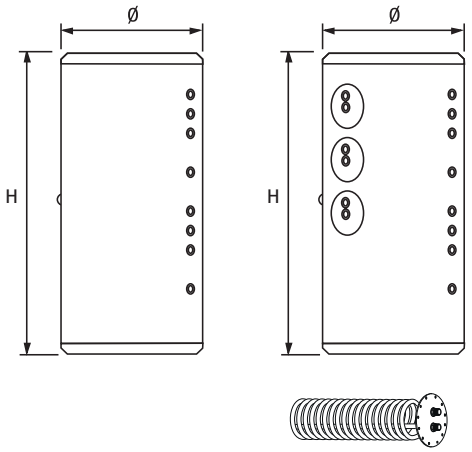
NOTE: for installation in parallel please consult the "RBS 2S Ready-i" page.

Flanged and double-coil DHW cylinders

7200/3F HV PLUS
7200/2 HV PLUS

ERP

- Flanged and double-coil DHW cylinders
- Domestic hot water Production
- Heat exchanger coil kit for 7200/3F to be ordered separately according to the capacity



Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight kg
7200/2 - 1500 HV PLUS	2185	1200	100	325
7200/2 - 2000 HV PLUS	2470	1300	100	540
7200/3F - 800 HV PLUS	1875	990	100	150
7200/3F - 1000 HV PLUS	2105	990	100	190
7200/3F - 1500 HV PLUS	2185	1200	100	305
7200/3F - 2000 HV PLUS	2470	1300	100	325
7200/3F - 3000 HV PLUS	2730	1450	100	543

(*) Dimensions with insulation
(**) Insulation thikness

Vertical steel double-coil solar cylinders, with internal double-layer enamel (according to DIN 4753) bacteriologically inert to ensure the absolute hygiene of water, to avoid limestone deposits and make cleaning easier.
The outer coating made of hard plastic provides a better aesthetic and a high solidity of the product, without compromising the installation in terms of ease of use and flexibility.
The cylinders, are already provided with CFC–free polyurethane hard and soft removable insulation (thickness of 100 mm) to make the installation easier; insulation supplied separately for the 2000-liters model. The care taken to study the geometry of solar cylinder and coils provides the best stratification, heat exchange and recovery time.
Easy maintenance thanks to the lateral flange for inspection, anticorrosion anodic protection. It is possible to use additional electrical resistance.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200/2 - 1500 HV PLUS	1390	99	8	162	C		**20136237**
7200/2 - 2000 HV PLUS	1950	99	8	186	C		**20136239**
7200/3F - 800 HV PLUS	749	99	10	130	C	(1)	**20136273**
7200/3F - 1000 HV PLUS	955	99	10	142	C	(1)	**20136274**
7200/3F - 1500 HV PLUS	1430	99	8	162	C	(1)	**20136275**
7200/3F - 2000 HV PLUS	1990	99	8	186	C	(1)	**20136277**
7200/3F - 3000 HV PLUS	2959	99	8	344	-	(1)	**20052788**

(1) Flanged solar cylinder supplied without coils, to be ordered separately.
NOTE: flanged solar cylinder supplied without coils, to be ordered separately.

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	10.4	1.8	1200	47	110	10	(1)
7200/2 - 2000 HV PLUS	16.9	2.8	1800	73	110	10	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	19.4	3.4	2200	88	110	10	(1)
7200/2 - 2000 HV PLUS	28.1	4.6	2900	120	110	10	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

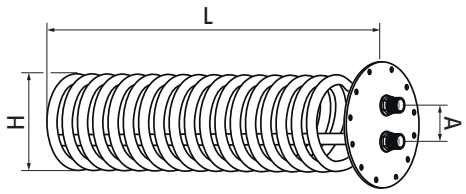
ACCESSORIES

Description	Notes	Code
Three-phase electrical resistence 3.8 kW of 1" ½		**20020707**
Tin coated copper coil kit 2.63 m² - 1.74 l - 10 bar	(1)	**20055205**
Tin coated copper coil kit 4.54 m² - 3.56 l - 10 bar	(1)	**4383089**
Tin coated copper coil kit 6.34 m² - 5.10 l - 10 bar	(1)(2)	**4383087**
Electric anode with plug		**20055206**

(1) Only for 7200/3F HV PLUS.
(2) Not suitable for 7200/3F 800 HV Plus and 7200/3F 1000 HV Plus.
Pump stations and differential controller are available at page 262.
Other available accessories at page 268.

HEAT EXCHANGER COIL

Description	L mm	H mm	A mm	Net weight kg
Tin coated copper coil kit 2,63 m²	580	DN200	80	14.9
Tin coated copper coil kit 4,54 m²	750	DN200	80	22.6
Tin coated copper coil kit 6,34 m²	980	DN200	80	29.0



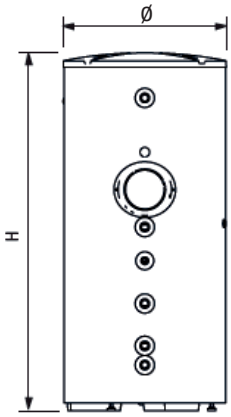
TECHNICAL DATA

Description	Water exchanger surface m²	Absorbed power (*) kW	Necessary capacity heat exchanger (*) m³/h	DHW output (*) m³/h	Pressure loss mbar	Maximum operating pressure of coil bar	Pipe diameter mm	Pipe's number	Water capacity l
Tin coated copper coil kit 2,63 m²	2.63	53	2.3	1.3	748	10	18x1	1	1.74
Tin coated copper coil kit 4,54 m²	4.54	91	3.9	2.2	720	10	18x1	2	3.56
Tin coated copper coil kit 6,34 m²	6.34	127	5.5	3.1	2017	10	18x1	2	5.10

(*) According to DIN 4708, to get domestic hot water with ΔT 35 °C (10/45 °C) and ΔT 20 °C (80/60 °C) on the heat-exchanger, please observe the values showed in the datasheet concerning absorbed power and necessary capacity heat-exchanger.

Single coil DHW cylinders

RBC 1S



ERP

- Steel single coil vertical cylinders
- Domestic hot water production
- Suitable for combination with boilers and heat pumps

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
RBC 150 1S	1088	604	52	62
RBC 200 1S	1338	604	52	78
RBC 300 1S	1838	604	52	103
RBC 430 1S	1644	755	52	131
RBC 550 1S	1988	755	52	157
RBC 800 1S	1835	974	92	203
RBC 1000 1S	2155	974	92	225

(*) Dimensions and weight with insulation
(**) Insulation thikness

Steel single coil cylinders characterized by internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits.
The RBC range includes 7 models from 150 to 1000 liters (Erp Ready – Energy efficiency class B) and thanks to the geometry of the tank and the elliptic section of the exchanger, it is possible to reach the best performance in terms of heat exchange (minimal thermal losses) and recovery time.
The hydraulic connections and the inspection flange are arranged on a single row in order to facilitate cleaning and to insert an additional electric resistance (optional).
Moreover the cylinders are suitable for specific transport handles available as accessories in order to allow an easy handling.
The RBC 1S range is suitable for combination with boilers and heat pumps, thus making it very adaptable to all requirements.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses (*) W	Energy efficiency class	Notes	Code
RBC 150 1S	162	99	10	55	B		**20124167**
RBC 200 1S	207	99	10	58	B		**20124168**
RBC 300 1S	305	99	10	68	B		**20124169**
RBC 430 1S	445	99	10	73	B		**20124170**
RBC 550 1S	555	99	10	84	B		**20124171**
RBC 800 1S	735	99	7	94	B	(1)	**20132270**
RBC 1000 1S	890	99	7	101	B	(1)	**20132271**

(*) According to EN 12897:2006, Δt = 45 °C (outdoor temperature 20 °C, storage temperature 65 °C).
(1) Insulation to be assembled.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation pressure bar	Notes
RBC 150 1S	4.25	0.85	660	27	10	(1)
RBC 200 1S	6.90	1.38	950	39	10	(1)
RBC 300 1S	8.50	1.70	1185	49	10	(1)
RBC 430 1S	10.00	2.00	1380	56	10	(1)
RBC 550 1S	19.30	2.30	1645	66	10	(1)
RBC 800 1S	21.00	2.50	1728	69	7	(1)
RBC 1000 1S	24.40	2.90	1860	75	7	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

ACCESSORIES

Description	Code
Thermometer kit	**20123850**
Electronic anode with plug	**20055206**
Curve for electronic anode kit	**20123851**
Single-phase electrical resistance 1.5 kW (for 200-550 liters models)	**20119911**
Single-phase electrical resistance 2.2 kW (for 200-550 liters models)	**20119912**
Single-phase electrical resistance 3.0 kW (for 200-550 liters models)	**20119913**
Three-phase electrical resistance 3.8 kW (for 200-550 liters models)	**20119914**
Single-phase electrical resistance 1.5 kW (for 800-1000 liters models)	**20131666**
Single-phase electrical resistance 2.2 kW (for 800-1000 liters models)	**20131667**
Single-phase electrical resistance 3.0 kW (for 800-1000 liters models)	**20131669**
Three-phase electrical resistance 3.8 kW (for 800-1000 liters models)	**20131670**

RECOMMENDED COMBINATIONS - HEATER AND HEAT PUMP

Heater			Heat pumps NXHM													
Description	Code	Continuous domestic water output (*) (kW)	NXHM 004	NXHM 006	NXHM 008	NXHM 010	NXHM 012	NXHM 014	NXHM 016	NXHM 012T	NXHM 014T	NXHM 016T	NXHM 018T	NXHM 022T	NXHM 026T	NXHM 030T
			20191936	20191940	20191942	20191943	20191944	20191945	20191946	20191947	20191948	20191949	20194140	20194141	20194142	20194143
RBC 150 1S	20124167	11	●	●												
RBC 200 1S	20124168	12	●	●	●											
RBC 300 1S	20124169	18	●	●	●	●	●			●						
RBC 430 1S	20124170	20		●	●	●	●	●		●	●					
RBC 550 1S	20124171	23			●	●	●	●	●	●	●	●				
RBC 800 1S	20132270	26					●	●	●	●	●	●	●			
RBC 1000 1S	20132271	29							●			●	●	●	●	● (1)

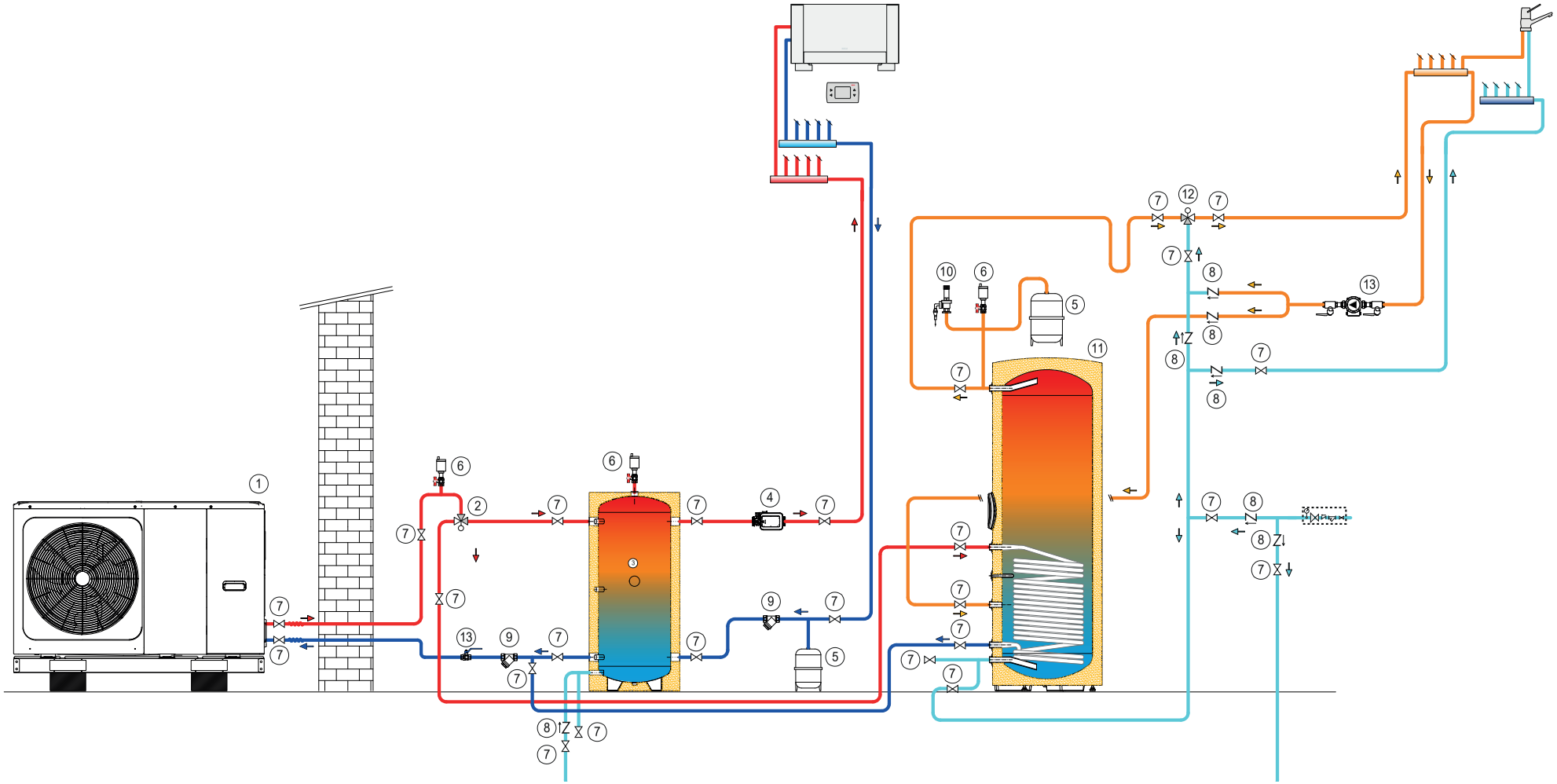
(*) Coil outlet temperature 55 °C ΔT 10 °C with DHW 10-45 °C. The values with ΔT 5 °C are to be considered an 8% increase compared to ΔT 10 °C.
NOTE: For the correct sizing of the heater, please refer to the technical data in the product data sheets.
(1) Possible combination with a minimum outlet temperature at the heater of 60 °C ΔT 10 °C.

Heater			Heat pumps FAMILY ES								
Description	Code	Continuous domestic water output (*) (kW)	FAMILY ES 5M	FAMILY ES 7M	FAMILY ES 9M	FAMILY ES 12M	FAMILY ES 15M	FAMILY ES 12T	FAMILY ES 15T	FAMILY ES 18T	FAMILY ES 25T
			20181792	20181795	20181796	20181797	20181805	20181803	20181806	20181807	20181809
RBC 150 1S	20124167	11	●	●							
RBC 200 1S	20124168	12	●	●	●						
RBC 300 1S	20124169	18	●	●	●	●		●			
RBC 430 1S	20124170	20		●	●	●	●	●	●		
RBC 550 1S	20124171	23			●	●	●	●	●	●	
RBC 800 1S	20132270	26				●	●	●	●	●	
RBC 1000 1S	20132271	29								●	●

(*) Coil outlet temperature 55 °C ΔT 10 °C with DHW 10-45 °C. The values with ΔT 5 °C are to be considered an 8% increase compared to ΔT 10 °C.
NOTE: For the correct sizing of the heater, please refer to the technical data in the product data sheets.

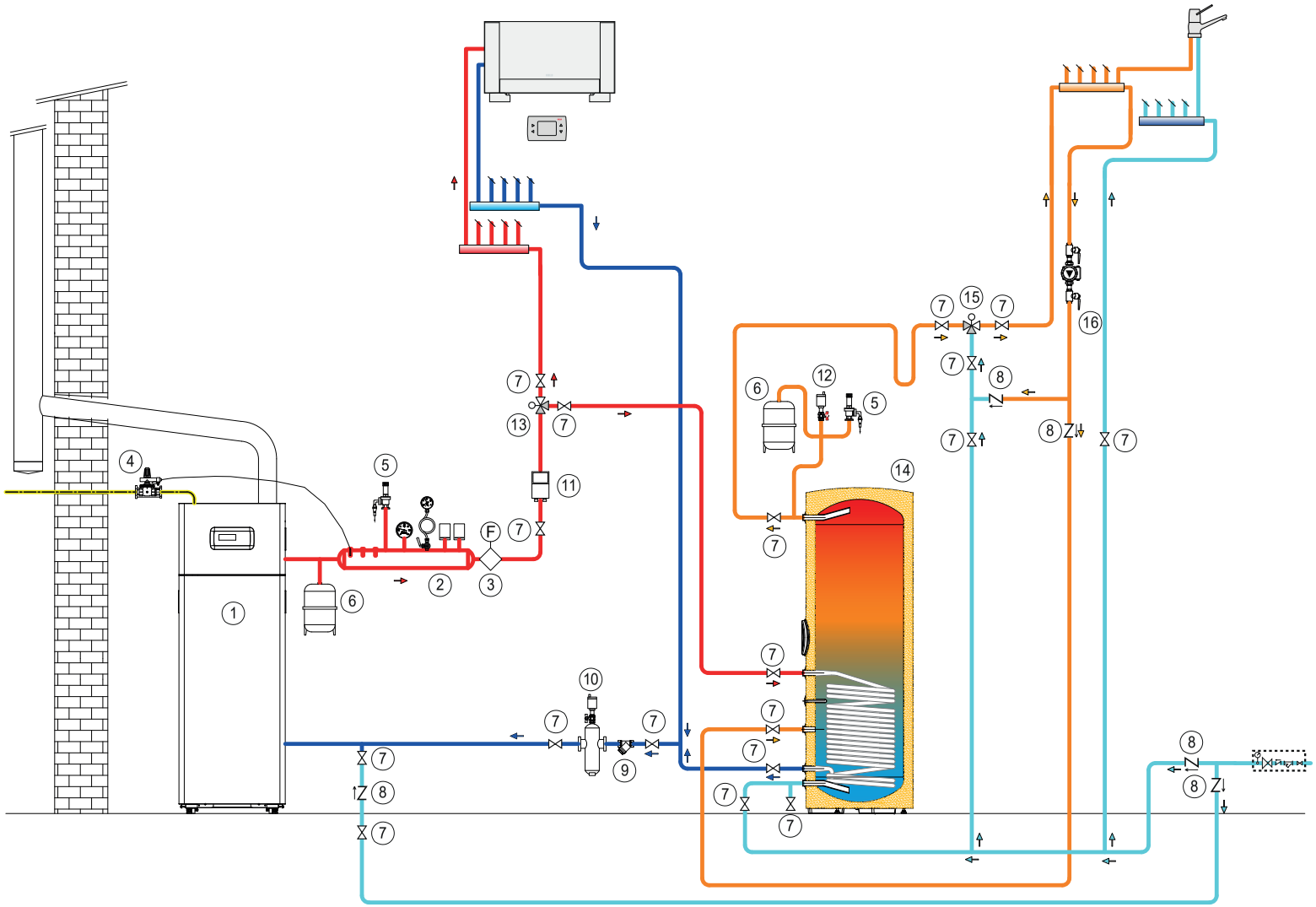
SYSTEM EXAMPLES

MONOVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP



1 Monobloc heat pump
2 Zone pump
3 Shut-off valve
4 Non-return valve
5 Filter
6 DHW heater
7 DHW mixer
8 DHW recirculation pump
9 Expansion reservoir
10 DHW diverting valve
11 Storage tank
12 Deaerator
13 Safety valve

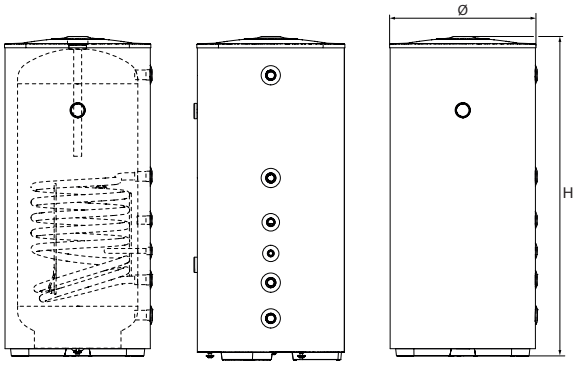
MONOVALENT HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH FLOOR-STANDING BOILER



1 High-water content floor-standing boiler
2 Safety unit
3 Safety flowmeter
4 Shut-off valve
5 Non-return valve
6 Filter
7 Magnetic sludge separator filter combined with deaerator
8 Expansion reservoir
9 Safety valve
10 Deaerator
11 Zone pump
12 Fuel shut-off valve (VIC)
13 DHW heater
14 DHW diverting valve
15 DHW recirculation pump
16 DHW mixer

One-coil DHW cylinders

7200 V PRIME



ERP

- Vertical double-layer enamelled steel cylinders
- One-coil cylinder for domestic hot water production

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200.200 V PRIME	1335	605	50	68
7200.300 V PRIME	1835	605	50	91
7200.430 V PRIME	1645	755	50	121
7200.550 V PRIME	1990	755	50	142
7200.800 V PRIME	1835	1000	100	182
7200.1000 V PRIME	2165	1000	100	207

(*) Dimensions and weight with insulation
(**) Insulation thickness

Vertical storage DHW cylinders made in steel, protected by a inner enamel coating (according to DIN 4753), which is smooth, anti-adherent and bacteriologically inert to ensure the absolute hygiene of the DHW and to avoid any possible limestone deposits and make cleaning easier. The care taken to study the geometry of the tank and the coil (with a large exchange surface) provides the best performance in terms of stratification, heat exchange and recovery time.
The efficient CFC-free polyurethane insulation, made through a direct foaming method for the models up to 550-liters and provided with excellent finishes and a hard removable insulation for the 800 and 1000 liters models, permits the reduction of heat losses to the minimum and enhances as a consequence efficiency.

- Anticorrosion anodic protection
- Analog pressure gauge standard supplied
- An electrical control board to manage the domestic hot water temperature is available as an accessory.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
7200.200 V PRIME	210	99	10	58	B	**20096892**
7200.300 V PRIME	304	99	10	68	B	**20096894**
7200.430 V PRIME	444	99	10	73	B	**20096895**
7200.550 V PRIME	556	99	10	84	B	**20096897**
7200.800 V PRIME	735	99	7	93	B	**20096899**
7200.1000 V PRIME	890	99	7	98	B	**20096900**

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m^2	DHW production (*) l/h	Coil power input kW	Max operation pressure bar	Notes
7200.200 V PRIME	4.8	0.78	590	590	10	(1)
7200.300 V PRIME	6.9	1.13	831	831	10	(1)
7200.430 V PRIME	9.8	1.49	1260	1260	10	(1)
7200.550 V PRIME	9.8	1.49	1260	1260	10	(1)
7200.800 V PRIME	16.3	2.47	1700	1700	10	(1)
7200.1000 V PRIME	16.3	2.47	1700	1700	10	(1)

(1) According to DIN 4708 with ΔT=35 °C (80/45 °C) on exchanger
(*) Hot water production data with primary circuit inlet temperature at of 80 °C and ΔT=35 °C on the secondary circuit.

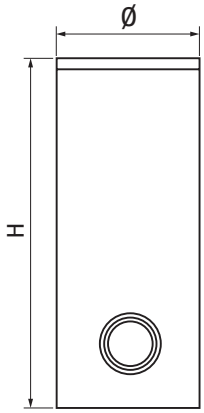
ACCESSORIES

Destination	Notes	Code
Electric control panel for storage cylinders	(1)	**4030011**
Electronic anode with plug		**20055206**

(1) Suitable for models up to 500 liters.

DHW solar cylinder

7200 HP



ERP

- Cylinder for heat pump
- Domestic hot water production

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	220

(*) Dimensions and weight with insulation
(**) Insulation thikness

DHW steel cylinders for vertical installation, protected by inner enamel and equipped with a coil (with a large exchange surface) for a suitable combination with a heat pump and with a flange in the bottom part to allow the insertion of an exchanger (optional) for the combination with the solar thermal. Specifically designed for the application in systems with heat pumps, they allow a high heat transfer thanks to the wide exchange surface.
They are complete with sockets, a magnesium anode and with a 1"½ connection for the insertion of an electrical resistance (optional). The insulation is made of rigid polyurethane for the sizes 300 and 500 and soft polyurethane for size 800.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 300 HP	263	99	10	85	C	(1)	**4383500**
7200 500 HP	470	99	10	112	C	(2)	**4383501**
7200 800 HP	702	99	10	130	C		**20136293**

(1) To combine with heat-pump Family ES and NHX.
(2) To combine with heat-pump Family ES and NHX.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200 300 HP	23.0	4	500	19	110	10	(1)
7200 500 HP	51.5	6	800	31	110	10	(1)
7200 800 HP	60.0	7	900	38	110	10	(1)

(1) According to DIN 4708 with ΔT=10 °C (60/50 °C) on exchanger.

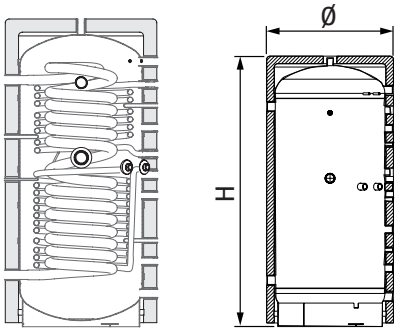
ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	**4383270**
Three-phase electrical resistence 3,8 kW of 1" ½	**20020707**
0,8 m² solar heat exchanger (for HP 300 model)	**4383504**
1,2 m² solar heat exchanger (for HP 500-800 models)	**4383505**
Electronic anode with plug	**20055206**

Other available accessories at page 268.

Combined solar storage tanks

7200 KombiSolar^{2S}



ERP

- Combined storage tank
- Instantaneous production of domestic hot water and heating supplement

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200 KOMBISOLAR 430 2S	1635	755	50	155
7200 KOMBISOLAR 550 2S	1985	755	50	177
7200 KOMBISOLAR 750 2S	1845	1000	100	218
7200 KOMBISOLAR 1000 2S	2170	1000	100	248

(*) Dimensions and weight with insulation
(**) Insulation thikness

7200 KombiSolar^{2S} is a combi storage tank designed for the instantaneous production of domestic hot water and the heating supplement. It contains three coils: one at the bottom for the solar circuit, one at the top for the heating circuit and one in stainless steel for the production of domestic hot water.
The rapid-exchange corrugated coil in stainless steel AISI 316L, for the production of domestic hot water (bacteriologically inert), ensures the absolute hygiene of water, while preventing bacteria from reproducing and limestone deposits from occurring, together with providing a fast, efficient and comfortable domestic hot water production.
The storage tank is specifically designed to enhance flexibility in installation through the synergetic and organic combination of thermal solar systems, traditional or biomass generators (also with open vessel) and heat pumps.
The presence of an integrated diffusion tube permits a high stratification of temperature along the solar tank height.
The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier.
It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 KOMBISOLAR 430 2S	415	99	3	78	B		**20088789**
7200 KOMBISOLAR 550 2S	528	99	3	85	B		**20088790**
7200 KOMBISOLAR 750 2S	742	99	5	93	B	(1)(2)	**20145329**
7200 KOMBISOLAR 1000 2S	908	99	5	98	B	(1)	**20145332**

(1) Supplied with insulation removed.
(2) Progressively available when the corresponding previous model runs out.

COIL HEAT EXCHANGER FOR SANITARY APPLICATION TECHNICAL DATA

Description	Water content liters	Exchange surface m²	Max operation temperature °C	Max operation pressure bar
7200 KOMBISOLAR 430 2S	23.6	4.5	99	6
7200 KOMBISOLAR 550 2S	23.6	4.5	99	6
7200 KOMBISOLAR 750 2S	30.4	5.8	99	6
7200 KOMBISOLAR 1000 2S	30.4	5.8	99	6

COIL HEAT EXCHANGER FOR PRIMARY CIRCUIT TECHNICAL DATA

Description	Water content liters	Exchange surface m²	Max operation pressure bar
7200 KOMBISOLAR 430 2S	11.0	1.80	10
7200 KOMBISOLAR 550 2S	12.8	2.10	10
7200 KOMBISOLAR 750 2S	17.4	2.90	10
7200 KOMBISOLAR 1000 2S	19.8	3.34	10

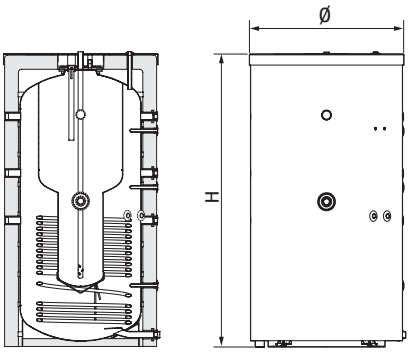
ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	**4383270**
Single-phase electrical resistance 2,2 kW of 1" ½	**4383271**
Single-phase electrical resistance 3,0 kW of 1" ½	**4383272**
Three-phase electrical resistence 3,8 kW of 1" ½	**20020707**
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F ¾" connection pipe, 110 mm)	**20005831**
Flexible pipe kit to connect the solar expansion vessel (F-F ¾", 800 mm, not insulated)	**20011797**
Electronic anode with plug	**20055206**

Other available accessories at page 268.

Combined solar storage tanks

7200 Kombi Plus



ERP

- Combined storage tank
- Production of domestic hot water and heating supplement

Description	H mm	Ø (*) mm	IT (**) mm	Net weight kg
7200.550 Kombi Plus	2055	755	50	192
7200.800 Kombi Plus	1870	990	100	210
7200.1000 Kombi Plus	2196	990	100	265

(*) Dimensions with insulation
(**) Insulation thikness

7200 Kombi Plus is a combi storage tank (tank-in-tank technology) designed for the production of domestic hot water and the heating supplement. The completely enamelled internal tank (bacteriologically inert) is suitable to contain domestic hot water as it ensures the absolute hygiene of the water, while avoiding limestone deposits and making cleanliness easier.
The storage tank is specifically designed to enhance flexibility of installation through the synergetic and organic integration with thermal solar systems, heat generators and heat pumps.
The exchange surfaces and the geometry of tank provide the best performance in terms of stratification, heat exchange, recovery time and domestic hot water production (up to 2700 liters/hour).
The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier. Anticorrosion anodic protection.
Easy maintenance thanks to the lateral flange for inspection. It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	DHW capacity liters	Maximum temperature °C	Maximum pressure of inertial storage cylinder bar	Thermal losses W	Energy efficiency class	Code
7200.550 Kombi Plus	388	160	99	3	95	C	**20090256**
7200.800 Kombi Plus	560	240	99	3	123	C	**20145308**
7200.1000 Kombi Plus	695	285	99	3	143	C	**20145313**

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Notes
7200.550 Kombi Plus	12.8	2.10	660	(1)
7200.800 Kombi Plus	16.0	2.80	800	(2)
7200.1000 Kombi Plus	19.0	3.16	1000	(2)

(1) According to DIN 4708 with ΔT=35 °C (80/45 °C) on exchanger.
(2) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

ACCESSORIES

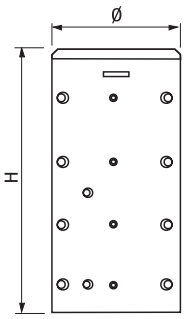
Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	**4383270**
Single-phase electrical resistance 2,2 kW of 1" ½	**4383271**
Single-phase electrical resistance 3,0 kW of 1" ½	**4383272**
Three-phase electrical resistence 3,8 kW of 1" ½	**20020707**
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F ¾" connection pipe, 110mm)	**20005831**
Flexible pipe kit to connect the solar expansion vessel (F-F ¾", 800mm, not insulated)	**20011797**
Electronic anode with plug	**20055206**

Other available accessories at page 268.

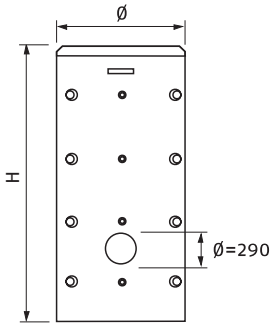
Puffers

7000 Puffer

7000/S



7000/F



ERP

- Inertial storage for heating supplement

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7000.1000/S	2190	990	100	172
7000.1500/S	2165	1200	100	239
7000.2000/F	2489	1300	100	330
7000.3000/F	2720	1450	100	415
7000.5000/F	2870	1800	100	570

(*) Dimensions and weight with insulation
(**) Insulation thikness

Storage tanks 7000 Puffer can be easily integrated into solar systems and are designed for heating supplement (not for DHW production or storage). The care taken to study the geometry of the tank (also provided with inner diaphragm) and coil (only for /S models) provides the best performance in terms of stratification, heat exchange and recovery time.
The connection at various heights permits the use of different heat generators and avoids affecting stratification.
The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier (/F models).
The use of the flange (only for /F models) makes maintenance easier and allows to connect an additional exchanger.
It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity l	Coil surface (m^2)	Maximum temperature °C	Maximum pressure bar	Thermal losses (*) W	Notes	Energy efficiency class	Code
INERTIAL PUFFER WITH SOLAR EXCHANGER COIL								
7000.300/S	270	1.8	95	3	93	(1)(D)	C	**20182681**
7000.500/S	476	1.8	95	3	110	(1)(D)	C	**20182682**
7000.1000/S	920	2.6	99	3	143	(1)(D)	C	**20136260**
7000.1500/S	1410	3.8	99	3	167	(1)(D)	C	**20136261**
INERTIAL PUFFER WITH ONE FLANGE								
7000.2000/F	2010	-	99	3	190	(2)(D)	C	**20136256**
7000.3000/F	2959	-	99	3	344	(2)(D)	-	**4383411**
7000.5000/F	5055		99	3	646		-	**4383412**

(1) Supplied with assembled insulation.
(2) Supplied with separated insulation.
(D) Availability of the material at our warehouse: 20 working days from the date of the order's validation.
(*) Discharges according to EN 12897:2006 (ΔT=45 °C, ambient 20 °C and storage at 65 °C).

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7000.1000/S	14,6	2,6	2900	68	110	6	(1)
7000.1500/S	21,6	3,8	4200	99	110	6	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

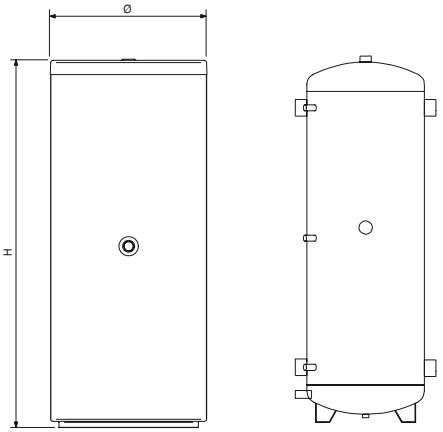
ACCESSORIES

Description	Notes	Code
4,54 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 91 kW)	(1)	**4383089**
6,34 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 127 kW)	(1)	**4383087**
Electronic anode with plug		**20055206**

(1) To use only with 7000.2000/F, 7000.3000/F and 7000.5000/F models.
Other available accessories at page 268.

Puffers

7000 ACI Plus



ERP

- Inertial storage

Description	H(*) mm	Ø(*) mm	Weight (empty) kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55
7000 ACI 400 PLUS	1540	700	95
7000 ACI 500 PLUS	1840	700	100
7000 ACI 800 PLUS	1800	990	115
7000 ACI 1000 PLUS	2050	990	170
7000 ACI 1500 PLUS	2165	1200	185
7000 ACI 2000 PLUS	2480	1300	305

(*) Dimensions with insulation.

Storage tanks 7000 ACI Plus can be easily integrated both into traditional systems (heat generators) and into systems using renewable sources (chillers, heat pumps). Therefore it is necessary to cope with the lack of time balance between demand and supply of energy with the help of suitable storage systems.
This product, which is supplied in a single package, is provided with a closed-cell insulation made of CFC-and-HCFC-free polyurethane and is suitable for heating/cooling systems as it provides particularly excellent performances in terms of low heat losses (according to UNI TS 11300).
The care taken to study the geometry of the tank provides the best stratification, heat exchange and recovery time.
New hydraulic connections, having a larger diameter, allow the reduction of head losses when operating with reduced ΔT; their positioning at various heights permits the use of different heat generators at the same time without affecting stratification. Ease of use is ensured by reduced weights and dimensions.
It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Thermal losses W	Maximum temperature °C	Maximum pressure bar	Energy efficiency class	Code
7000 ACI 60 PLUS	57	34	99	6	B	**20090056**
7000 ACI 120 PLUS	123	50	99	6	B	**20082450**
7000 ACI 200 PLUS	203	68	99	6	C	**20028093**
7000 ACI 300 PLUS	277	82	99	6	C	**20028094**
7000 ACI 400 PLUS	390	105	99	6	C	**20028095**
7000 ACI 500 PLUS	473	114	99	6	C	**20028096**
7000 ACI 800 PLUS	732	131	99	6	C	**20137619**
7000 ACI 1000 PLUS	855	139	99	6	C	**20137620**
7000 ACI 1500 PLUS	1420	168	99	6	C	**20137622**
7000 ACI 2000 PLUS	2013	190	99	6	C	**20137624**

ACCESSORIES

Description	Notes	Code
Single-phase electrical resistance 1,5 kW of 1" ½	(1)	**4383270**
Single-phase electrical resistance 2,2 kW of 1" ½	(1)	**4383271**
Single-phase electrical resistance 3,0 kW of 1" ½	(1)	**4383272**
Three-phase electrical resistence 3,8 kW of 1" ½	(1)	**20020707**
Electronic anode with plug		**20055206**

(1) Not compatible with 7000 ACI 60 Plus
Other available accessories at page 268.

COMPLEMENTARY ITEMS

Pump stations and differential controllers

RSS & EVOSOL

ERP

- Pump station RSS
- Differential controller EVOSOL

Description	H mm	L mm	P mm	Net weight kg
RSS MRS	418	313	185	5,0
RSS MR	418	313	185	4,7
RSS R	364	228	183	4,1
RSS MR 14 MT	290	390	250	0,8
EVOSOL	170	106	52	0,3

EVOSOL is a solar regulation able to manage 9 kinds of plant layouts and meet all different domestic and professional requirements. EVOSOL is able to manage a modulating solar circulator with constant ΔT regulation between solar collector and cylinder, thus allowing the operation of the system even in case of low radiation.
The user-friendly menu and the display allow to control easily the available functions and the selected layout. The frontal access to components eases the electrical wiring; the wide range of accessories allows to customize any system.
RSS is a solar pump station available in four versions: flow and return with differential controller EVOSOL assembled on the system (MRS), flow and return (MR) and only return (R).
The pump stations RSS MRS and MR are provided with circulator pump with PWM controlling, safety devices, filling taps, non-return valve, flow and return temperature gauge. RSS R is provided with circulator pump both for ON/OFF and PWM controlling, safety devices, filling taps, flow regulator and flow meter, non-return valve and temperature gauge.

TECHNICAL DATA

Description	Connection and ball valve	Net area connectable collectors m^2	Notes	Code
RSS MRS	Flow/Return	55	(1)	**20116166**
RSS MR	Flow/Return	55	(2)	**20116167**
RSS R	Only return	20	(3)	**20116168**
RSS MR 14 MT	Flow/Return	30	(2)(4)	**20156553**

(1) Equipped with differential controller EVOSOL.
(2) Suitable only for PWM controlling.
(3) Suitable for PWM or ON/OFF controlling.
(4) Equipped with modulating circulator pump with PWM controlling (a wall mount solar controller has to be installed separately) .

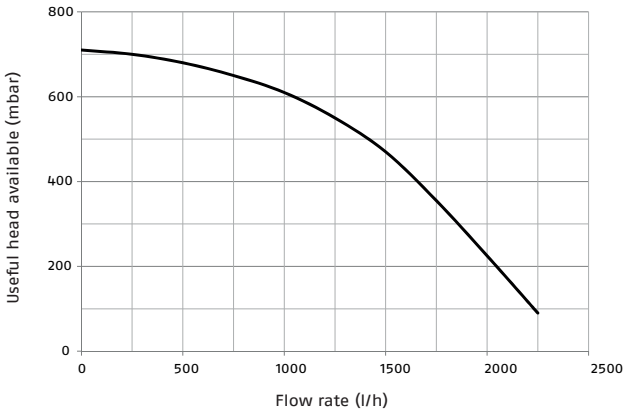
TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe nr.	Configured schemes nr.	Code
EVOSOL	2	4	1x collector + 2x cylinders	9	**20120499**

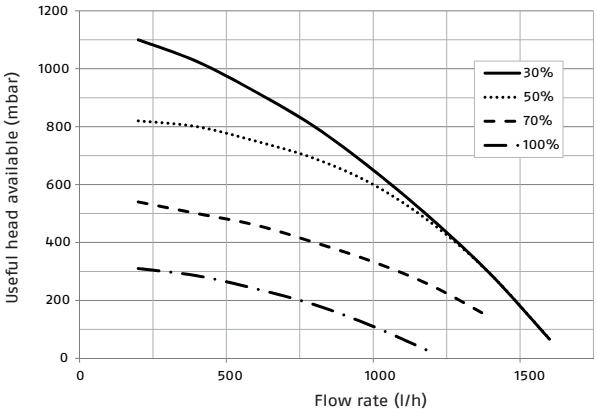
USEFUL HEAD AVAILABLE

Solar delivery and return station.
Values referred to a mix of water and 30% glycol.

RSS MRS – RSS R



RSS MR 14 MT



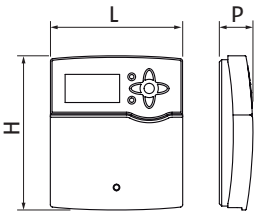
ACCESSORIES

Description	Notes	Code
Electronic anode	(1)	**20123853**
Electronic anode with plug	(2)	**20055206**
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		**4383196**
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		**4383197**
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m (-50/+230 °C) for vacuum collectors (FKP6/H Pt1000)		**4383199**
Probes protection kit against overvoltage (SP1)		**4383415**
Additional temperature probe kit for solar collector		**20125097**
Additional temperature probe kit for cylinder		**20123856**

(1) Suitable for pump station with differential controller (MRS type).
(2) Suitable for pump station without differential controller (R and MR type).

Solar differential controller

Sun Pro



ERP

- Solar controller Sun Pro

Description	H mm	L mm	P mm
SUN 5 PRO 5 RS	227	156	62
SUN 14 PRO 14 RS	260	216	64

SUN PRO is a solar controller able to meet all different domestic and professional requirements, able to manage several system schemes. The design is simple and stylish and suits all environments.
The menu is user-friendly, the display allows the user to easily control the functions and the selected scheme.
Easy access to the electrical wiring from the front side.
Wide range of accessories to customize any system.

TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe (*) (for flat collector) nr.	Configured schemes nr.	Code
SUN 5 PRO 5 RS	5	9	2x collector + 3x cylinders	7 (+variants)	**20099595**
SUN 14 PRO 14 RS	14	12	2x collector + 4x cylinders	9 (+variants)	**20099607**

(*) Specific probes for flat collectors

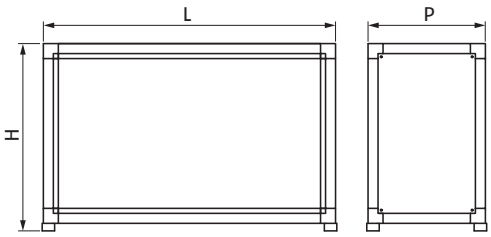
ACCESSORIES

Description	Notes	Code
Electronic anode to be wired with differential controller	(1)	**20123853**
Electronic anode with plug	(2)	**20055206**
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		**4383196**
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		**4383197**
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m (-50/+230 °C) for vacuum collectors (FKP6/H Pt1000)		**4383199**
Probes protection kit against overvoltage (SP1)		**4383415**

(1) Suitable for pump station with differential controller (MRS type).
(2) Suitable for pump station without differential controller (R and MR type).

Complementary items

Riello SC Sun
Riello SC Acs



ERP

- Solar heat exchange units
- DHW heat exchange units
- High efficiency pump

Description	H mm	L mm	P mm	Net weight kg
SC SUN 50	600	400	260	22.8
SC SUN 120	835	475	195	32
SC SUN 120 ACS	835	475	195	32
SC SUN 300	1140	1000	500	155
SC ACS 25	600	400	250	16.1
SC ACS 35	600	400	250	19.1
SC ACS 40	600	400	250	19.2
SC ACS 80	835	475	226	30
SC ACS 160	1100	1000	500	158
SC ACS 225	1100	1000	500	176

Riello offers complete and ready-to-install solutions when using puffer storage tanks, while optimizing stratification: heat exchange units both on the solar and the DHW sides.
Riello SC Sun is the solar heat exchanger designed for puffer storage tanks. Its components are sized and managed to transfer the heat with maximum efficiency. The range offers three sizes: up to 50, 120 and 300 m2 of exposed area.
There is also a heat-exchanger that produces directly istantaneous DHW; it can work up to 120 m² of exposed area.
Riello SC ACS is the heat exchanger for the instantaneous production of domestic hot water.
It is designed to be connected with puffer storage tanks and ensures maximum hygiene of the treated water.
The range offers five sizes: 25, 40, 80, 160 and 225 l/min.

TECHNICAL DATA

Description	Exchanged power (*) kW	Max primary output l/h	Temperature Primary min-max °C	Exchange surface m²	Max pressure primary/ secondary bar	NoteS	Code
HEAT EXCHANGER FOR SOLAR CIRCUIT							
SC SUN 50	32	1.500	2/110	0.9	6/3	(D)	**20156326**
SC SUN 120	52	2.400	2/110	3.0	6/6	(D)	**20156327**
SC SUN 300	129	6.000	2-110	-	10/10		**20156330**
DHW HEAT EXCHANGER							
SC SUN 120 ACS	52	2.400	2/110	3.0	6/6	(D)	**20156331**

(*) Referred to ΔT=20 °C and 30% glicol.
(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

TECHNICAL DATA

Description	DHW production l/min	Min DHW production output l/min	DHW temperature set °C	Max primary delivery output l/h	Plate exchange surface m²	Max. operating pressure bar	Notes	Code
FOR TECHNICAL WATER-DOMESTIC WATER HEAT EXCHANGE								
SC ACS 25	19	2,5	40...55	1.200	0.9	10	(D)	**20156322**
SC ACS 35	28	2,5	40...55	1.700	1.8	10	(D)	**20156324**
SC ACS 40	38	2	30...90	1.850	1.8	6	(1)	**20156325**
SC ACS 80	60	5	30...90	3.600	3	6	(D)(1)	**20182669**
SC ACS 160	100	10	30...85	8.000	-	10	(D)(1)	**20176021**
SC ACS 225	150	10	30...85	10.500	-	10	(D)(1)	**20156329**

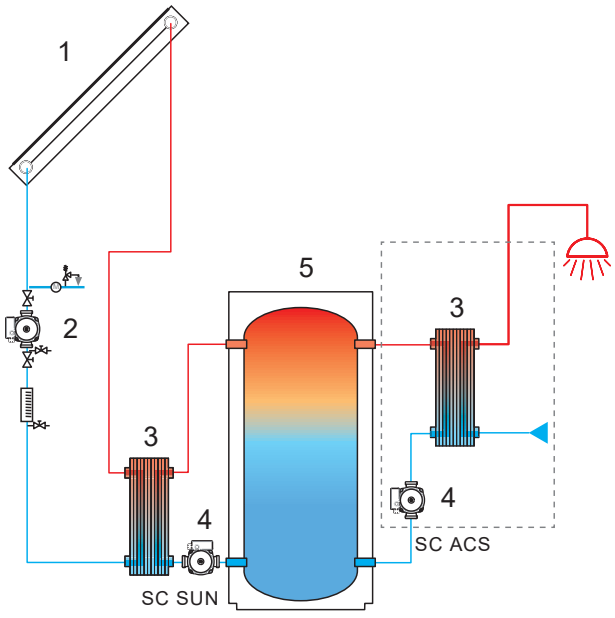
(*) DHW production at 45 °C, with water inlet at 10 °C and storage tank temperature at 55 °C.
(**) Max primary/secondary pressure.
(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
(1) Heat exchange module that can be assembled in cascade with the appropriate accessories (see accessories).

ACCESSORIES

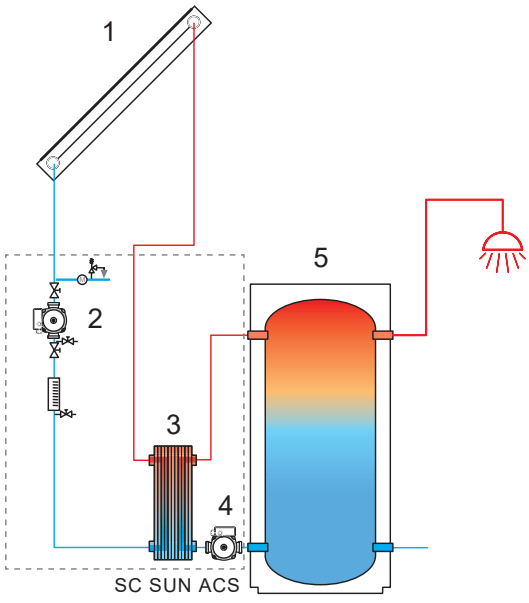
Description	Notes	Code
Thermostatic sanitary recirculation kit (for SC ACS 25-35)	(D)	**20083502**
Electronic DHW recirculation kit (only for SC ACS 40)		**20182673**
2 modules cascade connection kit (only for SC ACS 40)		**20182674**
3 modules cascade connection kit (only for SC ACS 40)	(D)	**20182675**
Recirculation kit (only for SC ACS 80)	(D)	**20182676**
2 modules cascade connection kit (only for SC ACS 80)	(D)	**20182677**
3 modules cascade connection kit (only for SC ACS 80)	(D)	**20182678**

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
0ther available accessories at page 268.

PRINCIPLE EXEMPLARY SCHEME



1. Riello solar collector
2. High efficiency solar circulator
3. Plate heat-exchanger
4. High efficiency circulator
5. 7000 Puffer



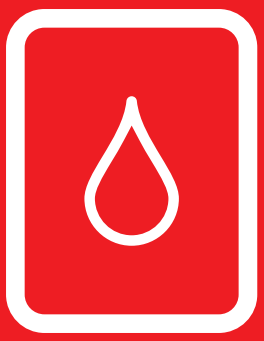
1. Riello solar collector
2. High efficiency solar circulator
3. Plate heat-exchanger
4. High efficiency circulator
5. 7200/3F HV PLUS

ACCESSORIES

SOLAR THERMAL ACCESSORIES

Description	Notes	Code
FITTINGS AND STAINLESS STEEL PIPES		
2 straight fittings kit to be tightened to connect the solar collectors with DN18 copper pipes		**20027281**
2-fittings kit to be tightened (90°) to connect the solar collectors with DN18 copper pipes		**20055236**
Kit of two fittings to tighten terminals	(2)	**20094627**
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		**20132219**
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/ stainless steel pipe DN16)		**20027289**
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/ stainless steel pipe DN16)		**20132220**
Fittings kit to be welded		**20132142**
Fittings kit for stainless steel pipe	(1)	**20132143**
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	**4383254**
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	**4383255**
FLOW RATE REGULATORS		
Flow rate regulator 12 (DN20; 2-12 l/min; kvs=2,2 m^3/h)		**20011536**
Flow rate regulator 20 (DN20, 8-20 l/min, kvs=5 m^3/h)		**20011538**
Manual solar air vent kit		**20026577**
GLYCOL		
5 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		**4383085**
10 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		**4383059**
20 kg pre-mixed glycol for CSV R (ready-to-use heat transfer liquid, suitable for vacuum collectors, frost-protection up to -28 °C)		**4383118**
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		**20094030**
EXPANSION VESSELS		
18L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		**4383052**
24L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		**4383053**
35L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		**4383054**
50L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		**4383256**
100L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		**4383257**
150L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		**4383258**
300L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		**4383259**
OTHER ACCESSORIES		
¾" thermostatic mixing valve kit		**20020778**
Differential electronic thermostat		**20039694**

(1) Fittings kit to be ordered with the stainless steel flexible pipe.
(2) Stainless steel flexible pipe, insulated, without fittings.



CENTRALIZED HEATING

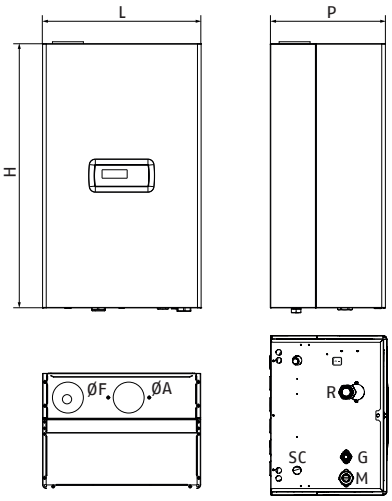
WALL-HANG/FLOOR-STANDING CONDENSATION MODULES

	GAS INDOOR	GAS OUTDOOR
WALL-HUNG THERMAL MODULES STAINLESS STEEL	 CONDEXA PRO (55.7-1098.0 kW)** page 274	 CONDEXA PRO* (55.7-1098.0 kW)** page 274
FLOOR-STANDING THERMAL MODULES STAINLESS STEEL	 STEEL PRO POWER (111.4-1290.0 kW)** page 289	 STEEL PRO POWER* (111.4-1290.0 kW)** page 289
FLOOR-STANDING THERMAL MODULES ALUMINUM	 ALU PRO POWER (112.1-585.0 kW)** page 304	

* Provided with kit for outdoor installation.
** The output data are referred to the min-max (80°/60 °C) of cascade applications.

Indoor wall-hung gas condensing modules

Condexa Pro



M-FLOW G 1" ½
G-GAS G 1"
R-RETURN G 1" ½
SC-CONDENSATE DISCHARGE Ø24 mm
ØF-FUME
ØA-AIR (opz)

ERP

- In conformity with Directive 2009/125/EC
- Condensing thermal modules for indoor use (for outdoors with optional kit)
- Possible cascade up to 1120 kW
- Modular design to ensure an easy and fast installation
- Low polluting emissions, Class 6 (DIN EN 15502)

Description	H mm	L mm	P mm	Ø mm	Net weight kg
CONDEXA PRO 57 P	1000	600	435	80	64
CONDEXA PRO 70 P	1000	600	435	80	64
CONDEXA PRO 90	1000	600	435	110	69
CONDEXA PRO 100	1000	600	435	110	69
CONDEXA PRO 115	1170	600	435	110	84
CONDEXA PRO 135	1170	600	435	110	90

The Condexa Pro System is the new Riello high performance wall-hung condensing modular system that can cover a vast range of applications, and which can be installed indoors or outdoors, with an open or sealed combustion chamber, with a single boiler or in cascade up to 1120 kW.
The range consists of 6 models with thermal modules from 57 to 131 kW.
Each thermal module has a new heat exchanger, with patented structures, composed of two smooth concentric stainless steel pipes, having respectively an internal pentagonal section and a circular outside section, designed to maximise the heat exchange surface and provide maximum resistance to corrosion.
The primary circuit pump with modulating adjustment allows you top operate with a settable consent ΔT, thereby reducing the system's steady state times and maximising the condensation. The standard electronics includes climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.
The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol.
Included as standard are: boiler discharge tap, LPG conversion kit and wall support.
Completing the system are accessories specifically designed for modular and cascade applications, with the possibility of working with various hydraulic management logics, namely thermal modules with circulators or no shut-off.
With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones. The optimal management of the combustion and the high modulation ratios, up to 1 to 50 for the version with 10 thermal modules, provide high levels of efficiency and low levels of polluting emissions (Class 6 UNI EN 15502).

- Continuity of service is guaranteed by system modularity: even in the event of fault of a module, overall operation shall not be compromised
- The anti-freeze and anti-seizing functions ensure it operates in all weather conditions
- A wide range of accessories is available to ensure the installation is simple, fast and complete with cascade
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Energy efficiency class	Language	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
CONDEXA PRO 57 P	55.7	61.9	14.0-57.0	98.3	108.6	109.2	A	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115223** **20150685** **20151706** **20151726** **20151754** **20151824** **20192124**
CONDEXA PRO 70 P	67.0	73.9	14.0-68.0	97.9	108.1	108.8	A	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115224** **20150686** **20151707** **20151727** **20151756** **20151825** **20192125**
CONDEXA PRO 90	88.3	97.4	19.4-90.0	98.0	108.3	108.9	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115225** **20150687** **20151709** **20151728** **20151759** **20151826** **20192126**
CONDEXA PRO 100	95.3	105.1	19.4-97.0	97.9	108.2	108.8	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115226** **20150688** **20151721** **20151730** **20151762** **20151827** **20192127**
CONDEXA PRO 115	109.8	121.1	22.4-112.0	98.3	108.6	108.8	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115228** **20150689** **20151722** **20151731** **20151767** **20151828** **20192128**
CONDEXA PRO 135	129.0	142.1	26.2-131.0	97.9	108.3	108.9	-	IT/EN FR/DE ES/PT RU/UA PL/RO SK/CZ/GR/SI/CR CH/BE/HU	**20115229** **20150690** **20151723** **20151732** **20151768** **20151829** **20192129**

STAND ALONE BOILER CONFIGURATION GUIDE AND ACCESSORIES SELECTION

1. STAND ALONE BOILER CONFIGURATION

Powers obtainable with stand alone installation

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Thermal flow kW	57	68	90	97	112	131

2. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Notes	Code
External probe		**20132778**
Condensate drain kit for stand alone boiler	(1)	**20133102**

(1) Mandatory on all models.

3. OPTIONAL ACCESSORIES

3.1 Shunt pumps (only for 90-135 kW)

Description	Notes	Code
Injection pump kit (90-115 kW)	(1)(2)	**20125034**
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)(3)	**20125035**
Injection pump kit with high residual head (135 kW)	(1)(4)	**20125040**

(1) On the models Condexa Pro 57-70 P the shunt pump is already onboard.
(2) This shunt pump, that can be fitted within the boiler, offers a high residual head on Condexa Pro 90 - 100 and with these boilers it can be combined with the (optional) plate heat exchanger; if used with Condexa Pro 115, it can be combined with the (optional) hydraulic separator but not with the plate heat exchanger.
(3) If combined with Condexa Pro 135, this shunt pump can be fitted within the boiler and offers a very low residual head (10 mbar); It has to be used ONLY in case of combination with horizontal hydraulic separator code: 20131897.
(4) This shunt pump cannot be fitted within the boiler, it has to be installed under the gas fired boiler.

3.2 Additional safety devices

Description	Notes	Code
SA installation kit for stand-alone boiler	(1)(2)	**20142219**
Manifold kit with safety devices (INAIL) for stand alone boiler	(3)	**20131898**
Manifold kit with safety devices for stand alone boiler	(4)(5)	**20189780**
Safety valve 5.4 bar ØG.¾'' FF		**20143981**
Kit with connection pipe to hydraulic separator for stand alone boiler		**20131899**
Shut-off cock		**20190221**

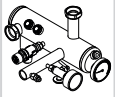
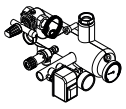
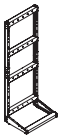
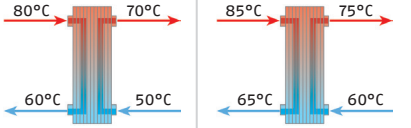
(1) This kit is necessary for the stand-alone installation. It contains: connection pipe kit (1x code 20131899), hydraulic separator kit for stand alone boiler (1x code 20131897), condensate drain syphone (1x code 20133102), safety valve 5.4 bar (1x code 20143981) and 2 ball valves.
(2) Condensate drain syphone (code 20133102) is not included in the boilers.
(3) Includes all the safety devices, including safety valve and VIC mandatory for the Italian market.
(4) Includes pressure gauge, thermometer and 3 bar safety valve (¾ "FF). Coupled with the under boiler cover kits (20145587 or 20133224) it allows the display of temperature and pressure values
(5) If an operating pressure> 3 bar is required, it can be combined with the safety valve code 20143981.

3.3 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Horizontal hydraulic separator kit for stand alone boiler		**20131897**
Frame kit for front cascades	(1)	**20131663**
Frame conversion kit for B2B cascades		**20131664**
2/3 way valve kit	(2)	**20125037**
Brazed plate heat exchanger kit for stand alone boiler (20 plates)	(3)	**20132368**
Brazed plate heat exchanger kit for stand alone boiler (30 plates)	(3)	**20132369**
Brazed plate heat exchanger kit for stand alone boiler (40 plates)	(3)	**20132370**
Brazed plate heat exchanger kit for stand alone boiler (50 plates)	(3)	**20132371**
Brazed plate heat exchanger kit for stand alone boiler (60 plates)	(3)(4)	**20132372**
Delivery/return line fittings kit for direct installation (57-135 kW)		**20136823**
Cover for plate heat exchanger		**20145587**
Cover for safety kit/hydraulic separator unit for stand alone boiler		**20133224**

(1) The frame is necessary in the case of installation with plate heat exchanger.
(2) Kit combinable with plate heat exchanger kits for stand alone boiler for DHW production.
(3) To be installed mandatory with code 20131663.
(4) To be mandatory combined with the circulator code 20125040.

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 20 °C

Description	Safety devices				Frame		Pumps			Plate heat exchangers							
	Safety devices			INAIL						ΔT primary/secondary = 10 °C				ΔT primary/secondary = 7.2 °C			
																	
	Kit with connection pipe to hydraulic separator for stand alone boiler	Safety valve 5.4 bar ØG.3/4" FF	Manifold kit with safety devices for stand alone boiler	Manifold kit with INAIL safety devices for stand alone boiler	Frame kit for front cascades	Frame conversion kit for B2B cascades	Injection pump kit (90-115 kW)	Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	Injection pump kit with high residual head (135 kW)	Brazed plate heat exchanger kit for stand alone boiler (20 plates)	Brazed plate heat exchanger kit for stand alone boiler (30 plates)	Brazed plate heat exchanger kit for stand alone boiler (40 plates)	Brazed plate heat exchanger kit for stand alone boiler (60 plates)	Brazed plate heat exchanger kit for stand alone boiler (30 plates)	Brazed plate heat exchanger kit for stand alone boiler (40 plates)	Brazed plate heat exchanger kit for stand alone boiler (50 plates)	Brazed plate heat exchanger kit for stand alone boiler (60 plates)
	20131899	20143981	20189780	20131898	20131663	20131664	20125034	20125035	20125040	20132368	20132369	20132370	20132372	20132369	20132370	20132371	20132372
CONDEXA PRO 57 P	●	●	●	●	●	● (*)	●			●				●			
CONDEXA PRO 70 P	●	●	●	●	●	● (*)	●			●				●			
CONDEXA PRO 90	●	●	●	●	●	● (*)	●				●				●		
CONDEXA PRO 100	●	●	●	●	●	● (*)	●				●				●		
CONDEXA PRO 115	●	●	●	●	●	● (*)		●				●				●	
CONDEXA PRO 135	●	●	●	●	●	● (*)			●				●				●

(*) To be used in case where the frame is not bound to the wall.

3.4 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	**1220599**
Electronic kit for managing additional direct or mixed zone	(2)	**20130811**

(1) Utilized for the management of secondary/tank circuit.
(2) The maximum number of kits that can be installed is 16
NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats on page 477.

3.5 Outdoor installation

Description	Code
IPX5D kit for outdoor installation (57-70 kW)	**20132365**
IPX5D kit for outdoor installation (90-135 kW)	**20128135**

3.6 Sealed chamber conversion kit (C type)

Description	Code
Conversion kit C type (57-70 kW)	**20131665**
Conversion kit C type (90-135 kW)	**20131668**

3.7 Flue system

Description	Notes	Code
Spacer kit for fixing to wall	(1)	**20131270**

(1) Kit required for rear wall concentric discharge
NOTE: for each type check the maximum equivalent lengths by consulting the technical data sheet and/or contacting the pre-sales service.
For the flue gas system, refer to page 403.

3.8 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	**4031811**
Condensate neutralizer N2 (up to 450 kW)		**4031810**

(1) Equipped with extraction pumps.

BOILERS CASCADE CONFIGURATION GUIDE AND ACCESSORIES SELECTION

1. BOILERS CASCADE CONFIGURATION

Powers obtainable with cascade system installation

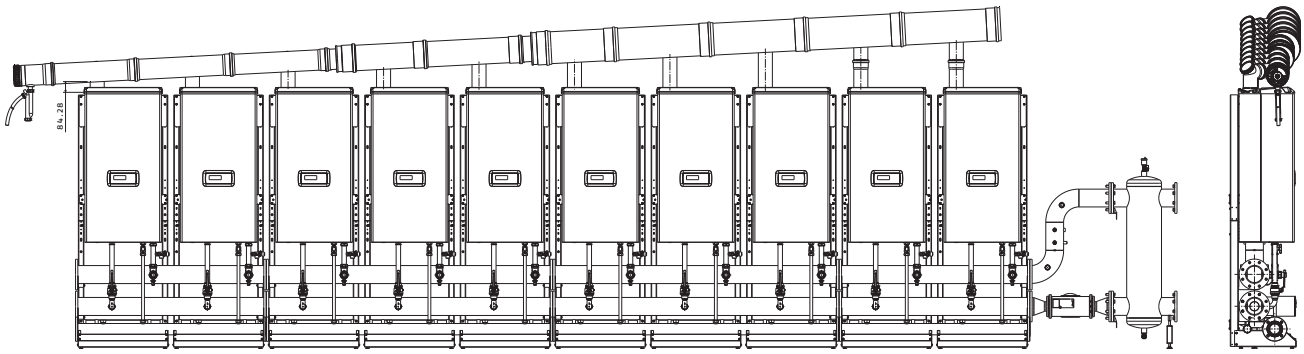
Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Nr. boilers	TOTAL POWER					
2	114	136	180	194	224	262
3	171	204	270	291	336	393
4	228	272	360	388	448	524
5	285	340	450	485	560	655
6	342	408	540	582	672	786
7	399	476	630	679	784	917
8	456	544	720	776	896	1048
9	513	612	810	873	1008	ND
10	570	680	900	970	1120	ND

Key to lay-out

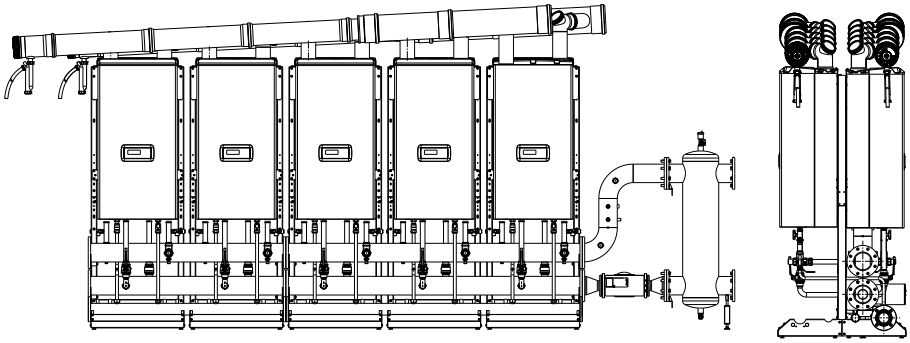
	Solution that provides the least number of boilers
	A solution that provides, with the same power, a greater number of boilers and therefore a greater modulation ratio
	Solution that provides, with the same power mdi, the maximum modulation ratio
ND	Solution not available

2. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK,
In relation to the space available

FRONT configuration



BACK-TO-BACK configuration



3. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Language	Notes	Code
Condensate drain kit for cascade boiler		(1)	**20131267**
External probe		(2)	**20132778**
Primary probe	IT/EN	(2)(3)	**20175714**
Set of manuals for the CONDEXA PRO CASCADE	FR/NL/DE		**20150950**
Set of manuals for the CONDEXA PRO CASCADE	ES/PT		**20151280**
Set of manuals for the CONDEXA PRO CASCADE	RU/UA		**20151282**
Set of manuals for the CONDEXA PRO CASCADE	PL/HU/RO		**20151281**
Set of manuals for the CONDEXA PRO CASCADE	SK/CZ/GR/SI/CR		**20151949**

(1) To be ordered for each boiler of the cascade system (q.ty = no. boilers)
(2) One probe for each system in cascade, to be connected to the master boiler
(3) It must be associated mandatorily with the appropriate "Set of manuals for the CONDEXA PRO CASCADE".

4. ACCESSORIES

4.1 Support frame

Description	Code
Frame kit for front cascades	**20131663**
Frame conversion kit for B2B cascades	**20131664**

No. boilers	FRONT	BACK-TO-BACK	
	20131663 Q.ty frame	20131663 Q.ty frame	20131664 Q.ty conversion kit
2	2	1	1
3	3	2	2
4	4	2	2
5	5	3	3
6	6	3	3
7	7	4	4
8	8	4	4
9	9	5	5
10	10	5	5

4.2 Shunt pumps for single boiler (only for 90-135 kW)

Description	Notes	Code
Injection pump kit (90-115 kW)	(1)	**20125034**
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)	**20125035**
Injection pump kit with high residual head (135 kW)	(2)	**20125040**

(1) To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed inside the boiler.
(2) To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed outside the boiler.

4.3 Connection pipes

Description	Notes	Code
FRONT CONFIGURATION		
Pipes without shut-off (57-135 kW)	(1)	**20130658**
Pipes with shut-off (57-135 kW)	(1)	**20131124**
Pipes without shut-off (135 kW) (external pump)	(2)	**20131121**
Pipes with shut-off (135 kW) (external pump)	(2)	**20131125**
BACK-TO-BACK CONFIGURATION		
Pipes without shut-off (57-135 kW)	(3)	**20130658**
Pipes with shut-off (57-135 kW)	(3)	**20131124**
Pipes without shut-off (135 kW) (external pump)	(4)	**20131121**
Pipes with shut-off (135 kW) (external pump)	(4)	**20131125**
Pipes without shut-off (57-135 kW) (B2B)	(5)	**20131787**
Pipes with shut-off (35-135 kW) (B2B)	(5)	**20131791**
Pipes without shut-off (135 kW) (external pump) (B2B)	(6)	**20131788**
Pipes with shut-off (135 kW) (external pump) (B2B)	(6)	**20131792**

(1) To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed inside the boiler.
(2) To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed outside the boiler.
(3) To be ordered for each boiler on collectors side with pump or valve installed inside the boiler.
(4) To be ordered for each boiler on collectors side with pump or valve installed outside the boiler.
(5) To be ordered for each boiler on the side opposite the collectors with pump or valve installed inside the boiler.
(6) To be ordered for each boiler on the side opposite the collectors with pump or valve installed outside the boiler.

4.4 Water collectors (delivery/return) - gas - condensate

Description	Notes	Code
3" collectors kit for cascades for 1 boiler	(1)	**20133220**
3" collectors kit for cascades for 2 boilers	(2)	**20130220**
3" collectors kit for cascades for 3 boilers	(2)	**20130221**
5" collectors kit for cascades for 2 boilers	(3)	**20130222**
5" collectors kit for cascades for 3 boilers	(3)	**20130223**
3" closing plugs kit		**20070903**
3" through-flanges kit		**20082190**
5" closing plugs kit		**20070907**
5" through-flanges kit		**20082191**
Cover with insulation for cascade collectors/pipes		**20132377**

(1) To be used for the BACK TO BACK configuration with 2 boilers; includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector.
(2) To be used with a maximum output of up to 485 kW. Includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector.
(3) To be used with a maximum output of over 485 kW. Includes 5" flanged deliver/return collectors DN125, 3" threaded gas collector DN80, condensate drain collector.

TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	**57**	**68**	**90**	**97**	**112**	**131**
No. boilers	TOTAL CASCADE OUTPUT/DIAMETER H_2O COLLECTORS					
2	114/3"	136/3"	180/3"	194/3"	224/3"	262/3"
3	171/3"	204/3"	270/3"	291/3"	336/3"	393/3"
4	228/3"	272/3"	360/3"	388/3"	448/3"	524/5"
5	285/3"	340/3"	450/3"	485/3"	560/5"	655/5"
6	342/3"	408/3"	540/5"	582/5"	672/5"	786/5"
7	399/3"	476/3"	630/5"	679/5"	784/5"	917/5"
8	456/3"	544/5"	720/5"	776/5"	896/5"	1048/5"
9	513/5"	612/5"	810/5"	873/5"	1008/5"	-
10	570/5"	680/5"	970/5"	970/5"	1120/5"	-

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A FRONT CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	**57**	**68**	**90**	**97**	**112**	**131**
No. boilers	SELECTION OF COLLECTOR CODES FOR FRONT CONFIGURATION					
2	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220
3	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221
4	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130222
5	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223
6	2 x 20130221	2 x 20130221	2 x 20130223	2 x 20130223	2 x 20130223	2 x 20130223
7	2 x 20130220 1 x 20130221	2 x 20130220 1 x 20130221	2 x 20130222 1 x 20130223	2 x 20130222 1 x 20130223	2 x 20130222 1 x 20130223	2 x 20130222 1 x 20130223
8	1 x 20130220 2 x 20130221	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223
9	3 x 20130223	3 x 20130223	3 x 20130223	3 x 20130223	3 x 20130223	-
10	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	-

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	**57**	**68**	**90**	**97**	**112**	**131**
No. boilers	SELECTION OF H2O COLLECTOR CODES FOR BACK TO BACK CONFIGURATIONS					
2	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220
3	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220
4	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130222
5	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223
6	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223
7	2 x 20130220	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
8	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
9	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	–
10	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	–

4.5 Additional safety devices

Description	Notes	Code
Manifold kit for 3" safety devices housing		**20070910**
Manifold kit for 5" safety devices housing		**20070912**
Safety devices kit	(1)	**20071190**
Safety valve up to 460 kW (5,4 bar ØG.¾" F)		**20023104**
Safety valve up to 580 kW (5,4 bar ØG.1" F)		**20023106**
Fuel shut-off valve kit (VIC) - ØG.1"	(2)(6)	**20009486**
Fuel shut-off valve kit (VIC) - ØG.1" ½	(3)(6)	**20009482**
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	**20009483**
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(6)	**20061640**
Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve	(7)	**20161191**

(1) Does not include safety valve and VIC.
(2) Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(3) Recommended up to a maximum output of 230 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(4) Recommended up to a maximum output of 580 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(5) Recommended up to a maximum output of 1150 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(6) Intervention temperature 97 °C - Capillary length 5 m.
(7) To be istalled in combiantion with flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve code 20061640.

NOTE: to calculate the maximum admissible output of the VIC, with supply pressures other than 20 mbar, contact the pre-sales service.

TABLE FOR SELECTING THE SAFETY VALVES

Total cascade heat output (kW)	0-460	461-580	581-920	921-1160
(No.) Diameter safety valve	1 x ¾"	1 x 1"	2 x ¾"	2 x 1"
	1 x code 20023104	1 x code 20023106	2 x code 20023104	2 x code 20023106

4.6 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Hydraulic separator kit 5"-up to 485 kW	(1)	**20009467**
Hydraulic separator kit 10"-up to 580 kW	(2)	**20069073**
Hydraulic separator kit 10"-up to 1120 kW	(3)	**20069074**
Fittings kit for plate heat exchanger (DN80 collectors side - 3"/DN50 plate heat exchanger side)	(4)	**20132373**
Fittings kit for plate heat exchanger (DN125 collectors side - 5"/DN65 plate heat exchanger side)	(4)	**20132375**
Fittings kit for plate heat exchanger (DN125 collectors side - 5"/DN100 plate heat exchanger side)	(5)	**20132376**
Ground fixing kit (SP 35-40 models)		**20120282**
Ground fixing kit (SP 60 models)		**20120284**

(1) To be used with a maximum output of up to 485 kW in combination with 3" collectors.
(2) To be used with a maximum output of over 485 and up to 580 kW in combination with 5" collectors.
(3) To be used with a maximum output of over 580 kW and up to 1120 kW in combination with 5" collectors.
(4) To be mandatory ordered with "Ground fixing kit SP 35-40" code 20120282.
(5) To be mandatory ordered with "Ground fixing kit SP 60" code 20120284.

PLATE HEAT EXCHANGER COMBINATIONS FOR BOILER OPERATION WITH DIFFERENT ΔT_{ml}

Description			Plate heat exchangers					
			ΔT_{ml}=10 °C 80 °C 70 °C 60 °C 50 °C			ΔT_{ml}=7,2 °C 85 °C 75 °C 65 °C 60 °C		
Nr. of generators in cascade application	Model	Rated heat input kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
2	Condexa Pro 2x 57 P	114	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 35 (35A) N	DN50	20140412
	Condexa Pro 2x 70 P	136	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 39 (39A) N	DN50	20140413
	Condexa Pro 2x 90	180	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	20140415
	Condexa Pro 2x 100	194	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	20140416
	Condexa Pro 2x 115	224	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	20140418
	Condexa Pro 2x 135	262	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
3	Condexa Pro 3x 57 P	171	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	20140415
	Condexa Pro 3x 70 P	204	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	20140416
	Condexa Pro 3x 90	270	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 3x 100	291	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 81 (81A) N	DN50	20140420
	Condexa Pro 3x 115	336	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 3x 135	393	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
4	Condexa Pro 4x 57 P	228	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	20140418
	Condexa Pro 4x 70 P	272	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 4x 90	360	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 4x 100	388	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 4x 115	448	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 4x 135	524	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	20140428
5	Condexa Pro 5x 57 P	285	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 5x 70 P	340	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 5x 90	450	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 5x 100	485	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 5x 115	560	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 5x 135	655	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
6	Condexa Pro 6x 57 P	342	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 6x 70 P	408	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 6x 90	540	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 6x 100	582	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 6x 115	672	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
	Condexa Pro 6x 135	786	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
7	Condexa Pro 7x 57 P	399	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 7x 70 P	476	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 7x 90	630	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 7x 100	679	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
	Condexa Pro 7x 115	784	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
	Condexa Pro 7x 135	917	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439
8	Condexa Pro 8x 57 P	456	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 8x 70 P	544	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 8x 90	720	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
	Condexa Pro 8x 100	776	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
	Condexa Pro 8x 115	896	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 73 (73A) N	DN100	20140439
	Condexa Pro 8x 135	1048	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 85 (85A) N	DN100	20140440
9	Condexa Pro 9x 57 P	513	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 9x 70 P	612	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 9x 90	810	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 65 (65A) N	DN100	20140438
	Condexa Pro 9x 100	873	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439
	Condexa Pro 9x 115	1008	SP 60 - DN100 65 (65A) N	DN100	20140438	SP 60 - DN100 85 (85A) N	DN100	20140440

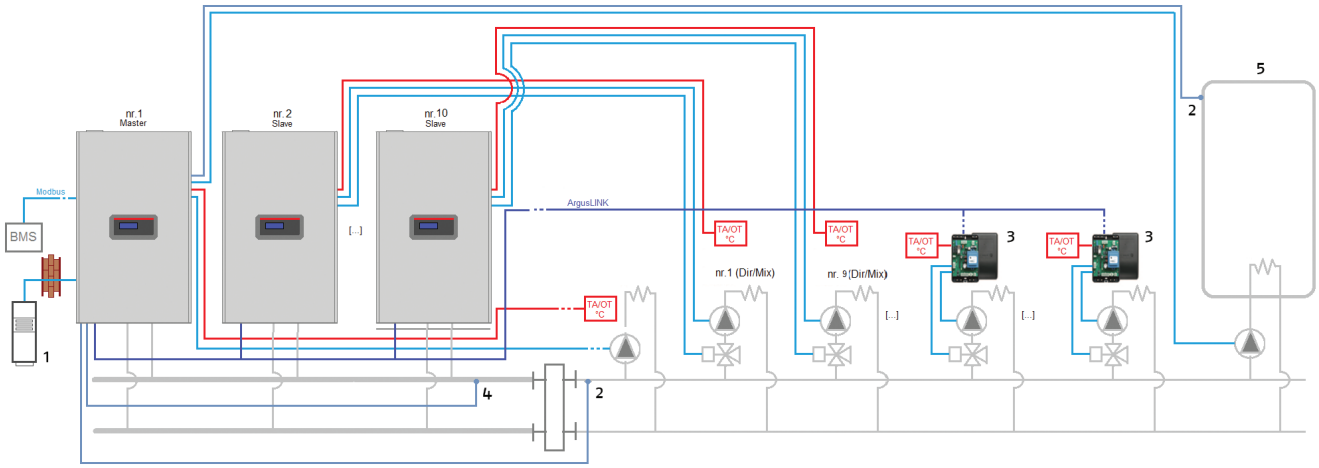
Description			Plate heat exchangers					
			ΔT_{ml}=10 °C 80 °C → 70 °C 60 °C ← 50 °C			ΔT_{ml}=7,2 °C 85 °C → 75 °C 65 °C ← 60 °C		
Nr. of generators in cascade application	Model	Rated heat input kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
10	Condexa Pro 10x 57 P	570	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 10x 70 P	680	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
	Condexa Pro 10x 90	900	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439
	Condexa Pro 10x 100	970	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 77 (77A) N	DN100	20083248
	Condexa Pro 10x 115	1120	SP 60 - DN100 73 (73A) N	DN100	20140439	SP 60 - DN100 97 (97A) N	DN100	20083249

4.7 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	**1220599**
Electronic kit for managing additional direct or mixed zone (max 16)	(2)	**20130811**

(1) Utilized for the management of secondary/tank circuit.
(2) Kit required whenever the number of the heating zones, direct or mixed, is higher than the number of slave boilers.

NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats.



Key to layout
1. External probe code 20132778
2. Immersion probe code 1220599
3. Electronic kit for managing additional direct or mixed zone (max 16) code 20130811
4. Primary probe code 20175714
5. DHW cylinder

4.8 Sealed chamber conversion kit

Description	Code
Conversion kit C type (57-70 kW)	**20131665**
Conversion kit C type (90-135 kW)	**20131668**

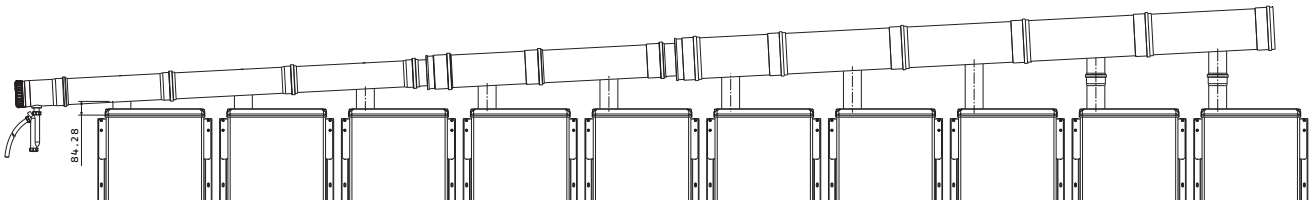
4.9 Flue gas exhaust systems

Description	Notes	Code
Adaptor Ø80/110	(1)	**20131238**
Cascade terminal Ø160 with condensate drain		**20062338**
Collector Ø160 for 1 boiler		**20131266**
Eccentric adaptor Ø160/200		**20132391**
Collector Ø200 for 1 boiler		**20131901**
Eccentric adaptor Ø200/250		**20132393**

Description	Notes	Code
Collector Ø250 for 1 boiler		**20131903**
Y-fitting Ø160/160		**20132381**
Y-fitting Ø160/200		**20132384**
Y-fitting Ø160/250		**20132385**
Y-fitting Ø200/250		**20132386**

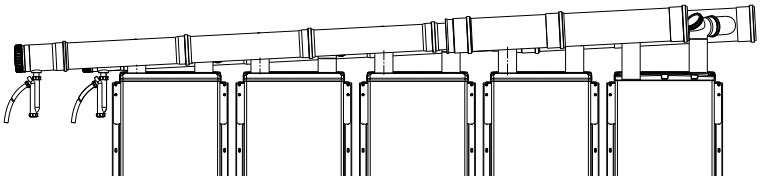
(1) Mandatory only for models 57-70.

FRONT configuration - max 10 boilers

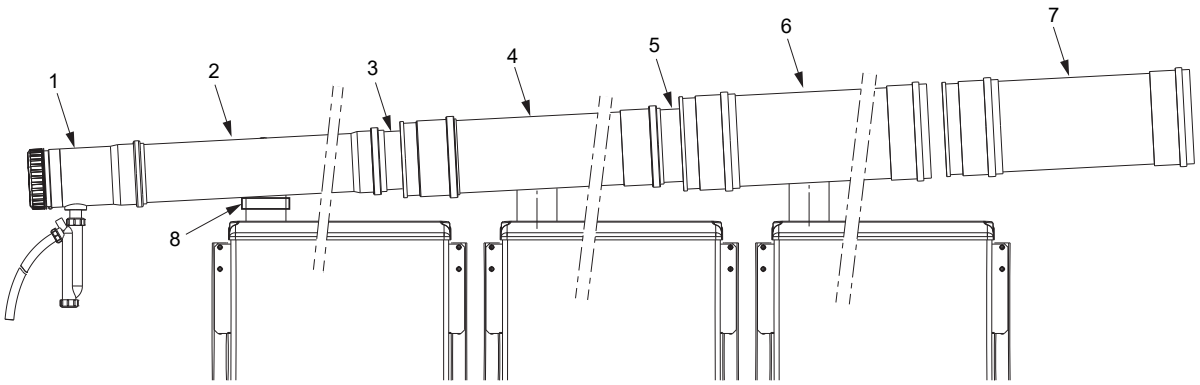


BACK-TO-BACK configuration - max 5 + 5 boilers

NOTE: the BACK TO BACK configuration has separate lines for each row of boilers, collectors side and the opposite side.



FLUE CONFIGURATION LAY-OUT



1 Code 20062338 Cascade terminal ø160 with condensate drain
2 Code 20131266 Collector ø160 for 1 boiler
3 Code 20132391 Eccentric adaptor ø160/200
4 Code 20131901 Collector ø200 for 1 boiler
5 Code 20132393 Eccentric adaptor ø200/250
6 Code 20131903 Collector ø250 for 1 boiler
7 Only for BACK TO BACK layout
Code 20132381 Y-fitting ø160/160
Code 20132384 Y-fitting ø160/200
Code 20132385 Y-fitting ø160/250
Code 20132386 Y-fitting ø200/250
8 Code 20131238 Adaptor ø80/110 (only for models 57-70)

TABLE FOR SELECTING THE FLUE GASES COLLECTORS DIAMETERS IN RELATION TO THE NUMBER OF BOILERS ON EACH COLLECTOR

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	**57**	**68**	**90**	**97**	**112**	**131**
No. boilers	FLUE GASES/AIR DIAMETERS					
1ª	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160
2ª	160	160	160	160	160	160
3ª	160	160	160	160	160	160
4ª	160	160	160	160	160	200
5ª	160	160	200	200	200	200
6ª	160	160	200	200	200	250
7ª	160	200	200	200	250	250
8ª	200	200	250	250	250	250
9ª	200	200	250	250	250	–
10ª	200	200	250	250	250	–

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN FRONT CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	**57**	**68**	**90**	**97**	**112**	**131**
No. boilers	SELECTION OF FLUE GASES COLLECTOR CODES FOR FRONT CONFIGURATIONS					
2	2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266
3	3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266
4	4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 3 x 20131266 1 x 20132391 1 x 20131901
5	5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901
6	6 x 20131238 1 x 20062338 6 x 20131266	6 x 20131238 1 x 20062338 6 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903
7	7 x 20131238 1 x 20062338 7 x 20131266	7 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903
8	8 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 1 x 20131901	8 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903
9	9 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 2 x 20131901	9 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903	nd
10	10 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 3 x 20131901	10 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 4 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 4 x 20131903	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	**57**	**68**	**90**	**97**	**112**	**131**
No. boilers	SELECTION OF FLUE GASES COLLECTOR CODES FOR BACK TO BACK CONFIGURATIONS					
2	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381
3	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381
4	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132384
5	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384
6	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132385
7	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132385	2 x 20062338 5 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
8	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 6 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
9	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd
10	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

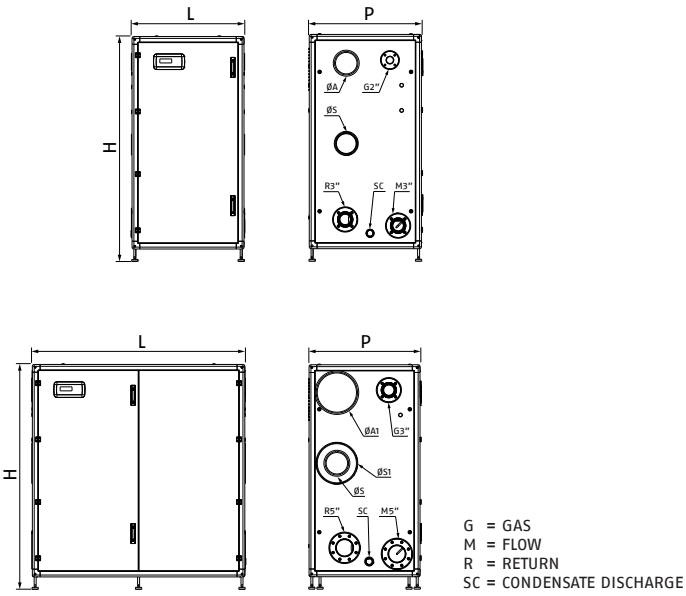
4.10 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	**4031811**
Condensate neutralizer N2 (up to 450 kW)		**4031810**
Condensate neutralizer N3 (450-1500 kW)		**4031812**
Condensate neutralizer HN3 (270-750 kW)	(1)(D)	**4031813**

(1) Equipped with extraction pumps.
(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

Floor-standing gas condensing units for indoor use

Steel Pro Power



G = GAS
M = FLOW
R = RETURN
SC = CONDENSATE DISCHARGE

ERP

- In conformity with Directive 2009/125/EC
- Condensing modular thermal units for indoor applications (outdoor with optional kit) composed of painted technical cabinet, thermal modules from 57 kW up to 131 kW and system accessories
- Low polluting emissions, class 6 (UNI EN 15502)

Description	H mm	L mm	P mm	ØA mm	ØA1 mm	ØS mm	ØS1 mm	Net weight kg
STEEL PRO POWER 114-2	1800	900	890	160	-	160	-	270
STEEL PRO POWER 140-2	1800	900	890	160	-	160	-	270
STEEL PRO POWER 180-2	1800	900	890	160	-	160	-	280
STEEL PRO POWER 230-2	1800	900	890	160	-	160	-	300
STEEL PRO POWER 270-2	1800	900	890	-	300	160	300	350
STEEL PRO POWER 300-3	1800	1700	890	160	-	160	-	450
STEEL PRO POWER 345-3	1800	1700	890	160	-	160	-	490
STEEL PRO POWER 405-3	1800	1700	890	-	300	160	300	540
STEEL PRO POWER 460-4	1800	1700	890	160	-	160	-	560
STEEL PRO POWER 540-4	1800	1700	890	-	300	160	300	600

Steel Pro Power is the new Riello modular condensing system, specially designed and developed to achieve very high energy efficiency values, minimizing the space occupied.
The system, ready for a simple and quick installation, consists of technical cabinets designed according to the principles of modularity, consisting of an anodised aluminium frame assembly and painted panels.
The standard product is suitable for open chamber indoor installation and it can be transformed into sealed or outdoor installation version with the fitting of specific accessory kits. The cabinets are equipped with 2, 3 or 4 heating elements from 57 up to 131 kW, for a total heat input from 114 up to 524 kW and are available in the versions that associate to each thermal module low consumption circulators ("P" models) or 2-way valves ("V" models); the standard supply also includes electronic control, hydraulic supply and return, gas, fumes and condensate discharge manifolds.
The heat exchangers, with patented geometries, consist of two smooth concentric stainless steel pipes, having the pentagonal section of the inside and the circular section outside of the chamber; they have been specially designed to maximize the exchange surface, offering maximum corrosion resistance and minimum load losses. These features allow you to work with high ΔT, reducing the time of system start-up.
The models with 131 kW exchanger (270-405-540) are designed for side-by-side cascade installation, up to a maximum of 10 units and a power of 1310 kW in total. The control electronics, compatible with the MOD-BUS protocol, allow the climatic regulation with cascade management of the thermal modules, automatic summer/winter switching, possibility of remote management via 0..10V input and alarm output signal.

The control system manages the heat distribution on the secondary circuit, controlling: one direct zone, one or more mixed zones (from 1 to 3 depending on the model) and the cylinder circuit.
Through special accessories there is also the possibility to manage additional mixed zones (up to max 16).
Optimal combustion management and high modulation ratios (up to 1:50) allow high efficiency and low pollutant emissions (Class 6 according to UNI EN 15502). The continuity of service is ensured by the system modularity: even in the event of a module failure, the overall operation is not compromised. The accessories designed to guarantee a simple, rapid and complete installation of the thermal power plant are also available. Maximum operating pressure 6 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Notes	Language	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
INDOOR UNITS - MODULATING PUMP VERSION									
STEEL PRO POWER 114-2 P	111.4	123.8	13.7-114	97.7	108.6	109.4	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138572** **20162048** **20162091** **20162140** **20162171** **20162191** **20192691**
STEEL PRO POWER 140-2 P	134.0	147.8	13.7-136	98.5	108.1	109.3	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138573** **20162051** **20162092** **20162141** **20162172** **20162192** **20192692**
STEEL PRO POWER 180-2 P	176.6	194.8	19.4-180	98.1	108.3	108.9	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138574** **20162052** **20162093** **20162143** **20162173** **20162193** **20192693**
STEEL PRO POWER 230-2 P	219.6	242.2	22.4-223.2	98.4	108.6	108.9	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138575** **20162060** **20162094** **20162144** **20162174** **20162194** **20192694**
STEEL PRO POWER 270-2 P	258.0	284.2	26.3-262	98.5	108.3	109.4	(1)(4)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138576** **20162063** **20162095** **20162145** **20162175** **20162195** **20192695**
STEEL PRO POWER 300-3 P	285.9	315.3	19.4-291	98.2	108.2	108.9	(2)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138577** **20162064** **20162097** **20162146** **20162176** **20162196** **20192696**
STEEL PRO POWER 345-3 P	329.4	363.6	22.4-334.8	98.4	108.6	108.9	(2)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138578** **20162065** **20162098** **20162148** **20162177** **20162197** **20192697**
STEEL PRO POWER 405-3 P	387.0	426.3	26.3-393	98.5	108.3	109.4	(2)(4)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138579** **20162066** **20162101** **20162151** **20162178** **20162198** **20192698**

Description	Power - kW			Efficiency - %			Notes	Language	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
INDOOR UNITS - MODULATING PUMP VERSION									
STEEL PRO POWER 460-4 P	439.2	484.4	22.4-446.4	98.4	108.6	108.9	(3)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138580** **20162074** **20162103** **20162152** **20162179** **20162199** **20192699**
STEEL PRO POWER 540-4 P	516.0	568.4	26.3-524	98.5	108.3	109.4	(3)(4)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	**20138581** **20162077** **20162104** **20162153** **20162180** **20162200** **20192700**

(1) Model with 2 thermal elements.
(2) Model with 3 thermal elements.
(3) Model with 4 thermal elements.
(4) Models usable for cascaded systems.

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION

1. BOILER CONFIGURATION
2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)
3. HYDRAULIC INTERCEPTION OF THERMAL MODULES
4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS
6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX
7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION
8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES
9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

1. BOILER CONFIGURATION

Choice of the type of installation:
A – Stand alone
B – Cascade

A – STAND ALONE HEAT INPUT

Description	STEEL PRO POWER									
	114-2	140-2	180-2	230-2	270-2	300-3	345-3	405-3	460-4	540-4
Rated heat input kW	114	136	180	224	262	291	336	393	448	524

B – CASCADE SYSTEM HEAT INPUT

Description	Heat input kW	STEEL PRO POWER 270-2 P/270-2 V	STEEL PRO POWER 405-3 P/405-3 V	STEEL PRO POWER 540-4 P/540-4 V
		N. of units		
STEEL PRO POWER SYSTEM 675	655	1	1	–
STEEL PRO POWER SYSTEM 810	786	1	–	1
STEEL PRO POWER SYSTEM 945	917	–	1	1
STEEL PRO POWER SYSTEM 1080	1048	–	–	2
STEEL PRO POWER SYSTEM 1215	1179	1	1	1
STEEL PRO POWER SYSTEM 1350	1310	1	–	2

2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)

Description	Code
Ø50/80 mm air adapter	**20145144**
Air hose kit for fan/collector connection Ø160 mm	**20145141**
Air hose kit for fan/manifold connection Ø300 mm	**20145137**
Air manifold for Ø160 mm models – for models with 2 thermal modules	**20145185**
Air manifold for Ø160 mm models – for models with ¾ thermal modules	**20145186**
Air manifold for Ø300 mm models – for models with 2 thermal modules	**20145187**
Air manifold for Ø300 mm models – for models with ¾ thermal modules	**20145189**

MATCHING TABLE OF SEALED TRANSFORMATION KIT CODES IN RELATION TO THE UNIT MODEL

Description	Kit code/Quantity						
	20145144	20145141	20145137	20145185	20145186	20145187	20145189
STEEL PRO POWER 114-2	2x●	2x●		1x ●			
STEEL PRO POWER 140-2	2x●	2x●		1x ●			
STEEL PRO POWER 180-2		2x●		1x ●			
STEEL PRO POWER 230-2		2x●		1x ●			
STEEL PRO POWER 270-2			2x●			1x ●	
STEEL PRO POWER 300-3		3x●			1x ●		
STEEL PRO POWER 345-3		3x●			1x ●		
STEEL PRO POWER 405-3			3x●				1x ●
STEEL PRO POWER 460-4		4x●			1x ●		
STEEL PRO POWER 540-4			4x●				1x ●
STEEL PRO POWER SYSTEM 675			5x●			1x ●	1x ●
STEEL PRO POWER SYSTEM 810			6x●			1x ●	1x●
STEEL PRO POWER SYSTEM 945			7x●				2x ●
STEEL PRO POWER SYSTEM 1080			8x●				2x●
STEEL PRO POWER SYSTEM 1215			9x●			1x ●	2x●
STEEL PRO POWER SYSTEM 1350			10x●			1x ●	2x●

3. HYDRAULIC INTERCEPTION OF THERMAL MODULES

Description	Notes	Code
2-way valve kit for hydraulic interception kit	(1)	**20145169**

(1) To be ordered in number equal to the number of modules in the system.

4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Junction kit for cascade (Fume Ø300 - Air Ø300 - Condensation Ø50)		**20157593**
Junction kit for cascade with spacer (150 mm)	(1)	**20145237**
Safety kit	(2)	**20071190**
Safety valve up to 460 kW (5.4 bar ØG.¾" F)		**20023104**
Safety valve up to 580 kW (5.4 bar ØG.1" F)		**20023106**
Fuel shut-off valve kit (VIC) - ØG.1"	(3)(4)	**20009486**
Fuel shut-off valve kit (VIC) - ØG.1" ½	(4)(5)	**20009482**
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	**20009483**
Fuel shut-off valve kit (VIC) - ØG.3"	(4)(7)	**20061640**
Flanged reduction kit 3"/2" (DN80/DN50)		**20145184**
Flanged 2" DN50 PN6/threaded ØG.2" adapter kit for VIC valve		**20094187**
Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve		**20161191**
2 "- 1" gas adapter for VIC valve		**20147994**
2 "- 1" ½ gas adapter for VIC valve		**20147990**
Adapter kit for VIC valve flanged from DN80 to threaded ØG.2 "		**20146852**
Flanged reduction kit 5"/3" (DN125/DN80)		**20145183**
3" closing plugs kit	(8)	**20070903**
5" closing plugs kit	(8)	**20070907**
Flange kit 3"		**20082190**
Flange kit 5"		**20082191**
Extension kit 3"	(9)(11)	**20167872**
Extension kit 5"	(10)(11)	**20167873**
Hydraulic flow manifold 3"		**20145172**
Hydraulic flow manifold 5"		**20145177**
Hydraulic return manifold 3"		**20145181**
Hydraulic return manifold 5"		**20145182**

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
(1) Includes connections H_2O 5" - Gas 3" - Fumes Ø300 - Condensation Ø50.
(2) It does not include a safety valve and VIC.
(3) Recommended up to a maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
(4) Operating temperature at 97 ° C - Capillary tube 5 m.
(5) Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
(6) Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.
(7) Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.
(8) Kit to close the unused side.
(9) To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 485 kW.
(10) To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 1310 kW.
(11) On the delivery pipe there are specific sleeves for housing safety kit devices.

NOTE: to calculate the maximum permissible power of the VICs, with different pressure supply from 20 mbar, contact the pre-sales service.

5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
3" hydraulic separator (up to 485 kW)		**20145255**
5" hydraulic separator (up to 1310 kW)		**20145260**
Left technical box with hydraulic separator (up to 485 kW)	(1)	**20145252**
Left technical box with hydraulic separator (up to 1310 kW)	(D)(1)	**20145254**
Right technical box with hydraulic separator (up to 485 kW)	(1)	**20145247**
Right technical box with hydraulic separator (up to 1310 kW)	(D)(1)	**20145250**
Connection kit for plate heat exchanger DN80/DN50		**20146827**
Connection kit for plate heat exchanger DN125/DN65		**20146828**
Connection kit for plate heat exchanger DN125/DN100		**20146829**
Left technical box for plate heat exchanger (up to 485 kW)		**20146833**
Left technical box for plate heat exchanger (up to 800 kW)	(D)	**20146835**
Left technical box for plate heat exchanger (up to 1310 kW)	(D)	**20146836**
Right technical box for plate heat exchanger (up to 485 kW)		**20146830**
Right technical box for plate heat exchanger (up to 800 kW)	(D)	**20146831**
Right technical box for plate heat exchanger (up to 1310 kW)	(D)	**20146832**
Right/left technical box or 3" extension kit (270/485 kW)	(D)(2)(3)	**20158562**
Right/left technical box or 5" extension kit (580/1310 kW)	(D)(2)(3)	**20158564**

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
(1) Contain the hydraulic separator within them.
(2) Single or twin type pump.
(3) They do not contain the circulator inside them.

MATCHING TABLE OF SAFETY DEVICES IN RELATION TO THE UNIT MODEL

Description	Safety kit	Safety valves		VIC valves								
	MANDATORY ACCESSORIES							ACCESSORIES TO BE SELECTED ACCORDING TO INSTALLATION				
								Without technical box			With technical box	
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.¾" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" ½	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"	3"/2" flanged reduction kit (DN80/DN50)	Flanged 2" DN50 PN6/ threaded ØG.2" adapter kit	Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit	3"/2" flanged reduction kit (DN80/DN50)	Flanged DN80/threaded ØG.2" adapter kit
	20071190	20023104	20023106	20009486	20009482	20009483	20061640	20145184	20094187	20161191	20145184	20146852
STEEL PRO POWER 114-2	1x ●	1x ●		1x ●					1x ●			
STEEL PRO POWER 140-2	1x ●	1x ●			1x ●				1x ●			
STEEL PRO POWER 180-2	1x ●	1x ●			1x ●				1x ●			
STEEL PRO POWER 230-2	1x ●	1x ●			1x ●				1x ●			
STEEL PRO POWER 270-2	1x ●	1x ●				1x ●		1x ●	1x ●		1x ●	
STEEL PRO POWER 300-3	1x ●	1x ●				1x ●			1x ●			
STEEL PRO POWER 345-3	1x ●	1x ●				1x ●			1x ●			
STEEL PRO POWER 405-3	1x ●	1x ●				1x ●		1x ●	1x ●		1x ●	
STEEL PRO POWER 460-4	1x ●	1x ●				1x ●			1x ●			
STEEL PRO POWER 540-4	1x ●		1x ●			1x ●		1x ●	1x ●			1x ●
STEEL PRO POWER SYSTEM 675	1x ●	2x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 810	1x ●	2x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 945	1x ●	2x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 1080	1x ●	3x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 1215	1x ●	3x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 1350	1x ●	3x ●					1x ●			1x ●		

MATCHING TABLE OF FLANGE, HYDRAULIC REDUCTION CODES IN RELATION TO THE UNIT MODEL

Description	Flanged reduction kit 5"/3" (DN125/DN80)	3" closing plugs kit	5" closing plugs kit	3" through-flanges kit	5" through-flanges kit
	20145183	20070903	20070907	20082190	20082191
STEEL PRO POWER 114-2		1x ●		2x●	
STEEL PRO POWER 140-2		1x ●		2x●	
STEEL PRO POWER 180-2		1x ●		2x●	
STEEL PRO POWER 230-2		1x ●		2x●	
STEEL PRO POWER 270-2	2x●(*)		1x ●	2x●	
STEEL PRO POWER 300-3		1x ●		2x●	
STEEL PRO POWER 345-3		1x ●		2x●	
STEEL PRO POWER 405-3	2x●(*)		1x ●	2x●	
STEEL PRO POWER 460-4		1x ●		2x●	
STEEL PRO POWER 540-4			1x ●		2x●
STEEL PRO POWER SYSTEM 675			1x ●		2x●
STEEL PRO POWER SYSTEM 810			1x ●		2x●
STEEL PRO POWER SYSTEM 945			1x ●		2x●
STEEL PRO POWER SYSTEM 1080			1x ●		2x●
STEEL PRO POWER SYSTEM 1215			1x ●		2x●
STEEL PRO POWER SYSTEM 1350			1x ●		2x●

(*) Accessories necessary for the hydraulic connection to technical box.

EXTENSION KIT SELECTION TABLE

Description	With/without technical box		With technical box			
	Extension kit 3"	Extension kit 5"	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit	2 "- 1" ½ gas adapter for VIC valve	2 "- 1" gas adapter for VIC valve
	20167872	20167873	20158562	20158564	20147990	20147994
STEEL PRO POWER 114-2	●		●		●	
STEEL PRO POWER 140-2	●		●			●
STEEL PRO POWER 180-2	●		●			●
STEEL PRO POWER 230-2	●		●			●
STEEL PRO POWER 270-2	●		●			
STEEL PRO POWER 300-3	●		●			
STEEL PRO POWER 345-3	●		●			
STEEL PRO POWER 405-3	●		●			
STEEL PRO POWER 460-4	●		●			
STEEL PRO POWER 540-4		●		●		
STEEL PRO POWER SYSTEM 675		●		●		
STEEL PRO POWER SYSTEM 810		●		●		
STEEL PRO POWER SYSTEM 945		●		●		
STEEL PRO POWER SYSTEM 1080		●		●		
STEEL PRO POWER SYSTEM 1215		●		●		
STEEL PRO POWER SYSTEM 1350		●		●		

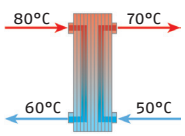
TECHNICAL CABINET SELECTION TABLE FOR EXTENSION KIT HOUSING

Description	2 "- 1" gas adapter for VIC valve	2 "- 1" ½ gas adapter for VIC valve	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit
	20147994	20147990	20158562	20158564
STEEL PRO POWER 114-2	●		●	
STEEL PRO POWER 140-2		●	●	
STEEL PRO POWER 180-2		●	●	
STEEL PRO POWER 230-2		●	●	
STEEL PRO POWER 270-2			●	
STEEL PRO POWER 300-3			●	
STEEL PRO POWER 345-3			●	
STEEL PRO POWER 405-3			●	
STEEL PRO POWER 460-4			●	
STEEL PRO POWER 540-4				●
STEEL PRO POWER SYSTEM 675				●
STEEL PRO POWER SYSTEM 810				●
STEEL PRO POWER SYSTEM 945				●
STEEL PRO POWER SYSTEM 1080				●
STEEL PRO POWER SYSTEM 1215				●
STEEL PRO POWER SYSTEM 1350				●

MATCHING TABLE OF HYDRAULIC SEPARATOR AND ACCESSORIES IN RELATION TO THE UNIT MODEL

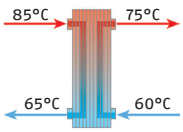
Description	Without technical box						With technical box			
	Left/right side installation						Left side installation		Right side installation	
	3" connections up to 485 kW	5" connections up to 1310 kW	3" hydraulic flow manifold	5" hydraulic flow manifold	3" hydraulic return manifold	5" hydraulic return manifold	Left technical box for hydraulic separator up to 485 kW	Left technical box for hydraulic separator up to 1310 kW	Right technical box for hydraulic separator up to 485 kW	Right technical box for hydraulic separator up to 1310 kW
	20145255	20145260	20145172	20145177	20145181	20145182	20145252	20145254	20145247	20145250
STEEL PRO POWER 114-2	●		●		●		●		●	
STEEL PRO POWER 140-2	●		●		●		●		●	
STEEL PRO POWER 180-2	●		●		●		●		●	
STEEL PRO POWER 230-2	●		●		●		●		●	
STEEL PRO POWER 270-2	●		●		●		●		●	
STEEL PRO POWER 300-3	●		●		●		●		●	
STEEL PRO POWER 345-3	●		●		●		●		●	
STEEL PRO POWER 405-3	●		●		●		●		●	
STEEL PRO POWER 460-4	●		●		●		●		●	
STEEL PRO POWER 540-4		●		●		●		●		●
STEEL PRO POWER SYSTEM 675		●		●		●		●		●
STEEL PRO POWER SYSTEM 810		●		●		●		●		●
STEEL PRO POWER SYSTEM 945		●		●		●		●		●
STEEL PRO POWER SYSTEM 1080		●		●		●		●		●
STEEL PRO POWER SYSTEM 1215		●		●		●		●		●
STEEL PRO POWER SYSTEM 1350		●		●		●		●		●

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY (ΔT = 10 °C AVERAGE BETWEEN PRIMARY AND SECONDARY)

Description	Plate heat exchanger ΔTml = 10 °C  														
	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 39 (39A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 49 (49A) N	SP 35-DN50 57 (57A) N	SP 35-DN50 65 (65A) N	SP 35-DN50 75 (75A) N	SP 40-DN65 59 (59A) N	SP 40-DN65 75 (75A) N	SP 40-DN65 93 (93A) N	SP 60-DN100 51 (51A) N	SP 60-DN100 59 (59A) N	SP 60-DN100 65 (65A) N	SP 60-DN100 73 (73A) N
	20140410	20140411	20140413	20140414	20140415	20140416	20140418	20140419	20014231	20140426	20140427	20140435	20140437	20140438	20140439
STEEL PRO POWER 114-2	●														
STEEL PRO POWER 140-2	●														
STEEL PRO POWER 180-2		●													
STEEL PRO POWER 230-2			●												
STEEL PRO POWER 270-2				●											
STEEL PRO POWER 300-3					●										
STEEL PRO POWER 345-3						●									
STEEL PRO POWER 405-3							●								
STEEL PRO POWER 460-4								●							
STEEL PRO POWER 540-4									●						
STEEL PRO POWER SYSTEM 675										●					
STEEL PRO POWER SYSTEM 810											●				
STEEL PRO POWER SYSTEM 945												●			
STEEL PRO POWER SYSTEM 1080													●		
STEEL PRO POWER SYSTEM 1215														●	
STEEL PRO POWER SYSTEM 1350															●

NOTE: once the exchanger has been selected it is necessary to associate the accessories shown in the **"Hydraulic accessories selection table for heat exchanger installation"**.

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY (ΔT = 7.2 °C AVERAGE BETWEEN PRIMARY AND SECONDARY)

Description	Plate heat exchanger ΔTml = 7.2 °C  														
	SP 35-DN50 35 (35A) N	SP 35-DN50 39 (39A) N	SP 35-DN50 49 (49A) N	SP 35-DN50 65 (65A) N	SP 35-DN50 75 (75A) N	SP 35-DN50 81 (81A) N	SP 35-DN50 93 (93A) N	SP 35-DN50 105 (105A) N	SP 35-DN50 121 (121A) N	SP 40-DN65 99 (99A) N	SP 40-DN65 121 (121A) N	SP 40-DN65 145 (145A) N	SP 60-DN100 73 (73A) N	SP 60-DN100 85 (85A) N	SP 60-DN100 97 (97A) N
	20140412	20140413	20140415	20140418	20140419	20140420	20140421	20140423	20140424	20140428	20140432	20140433	20140439	20140440	20083249
STEEL PRO POWER 114-2	●														
STEEL PRO POWER 140-2		●													
STEEL PRO POWER 180-2			●												
STEEL PRO POWER 230-2				●											
STEEL PRO POWER 270-2					●										
STEEL PRO POWER 300-3						●									
STEEL PRO POWER 345-3							●								
STEEL PRO POWER 405-3								●							
STEEL PRO POWER 460-4									●						
STEEL PRO POWER 540-4										●					
STEEL PRO POWER SYSTEM 675											●				
STEEL PRO POWER SYSTEM 810												●			
STEEL PRO POWER SYSTEM 945													●		
STEEL PRO POWER SYSTEM 1080														●	
STEEL PRO POWER SYSTEM 1215															●
STEEL PRO POWER SYSTEM 1350															●

NOTE: once the exchanger has been selected, it is necessary to associate the accessories shown in the **"Hydraulic accessories selection table for heat exchanger installation"**.

MATCHING TABLE OF HYDRAULIC ACCESSORIES FOR HEAT EXCHANGER INSTALLATION IN RELATION TO THE UNIT MODEL

Description	Without technical box			With technical box					
				Left side installation			Right side installation		
	Connection kit for plate heat exchanger DN80 (Ø3")/DN50	Connection kit for plate heat exchanger DN125 (Ø5")/DN65	Connection kit for plate heat exchanger DN125 (Ø5")/DN100	Left technical box for plate heat exchanger up to 485 kW	Left technical box for plate heat exchanger up to 800 kW	Left technical box for plate heat exchanger up to 1310 kW	Right technical box for plate heat exchanger up to 485 kW	Right technical box for plate heat exchanger up to 800 kW	Right technical box for plate heat exchanger up to 1310 kW
	20146827	20146828	20146829	20146833	20146835	20146836	20146830	20146831	20146832
STEEL PRO POWER 114-2	●			●			●		
STEEL PRO POWER 140-2	●			●			●		
STEEL PRO POWER 180-2	●			●			●		
STEEL PRO POWER 230-2	●			●			●		
STEEL PRO POWER 270-2	●			●			●		
STEEL PRO POWER 300-3	●			●			●		
STEEL PRO POWER 345-3	●			●			●		
STEEL PRO POWER 405-3	●			●			●		
STEEL PRO POWER 460-4	●			●			●		
STEEL PRO POWER 540-4		●			●			●	
STEEL PRO POWER SYSTEM 675		●			●			●	
STEEL PRO POWER SYSTEM 810		●			●			●	
STEEL PRO POWER SYSTEM 945			●			●			●
STEEL PRO POWER SYSTEM 1080			●			●			●
STEEL PRO POWER SYSTEM 1215			●			●			●
STEEL PRO POWER SYSTEM 1350			●			●			●

6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX

Description	Notes	Code
Air/flue manifold technical box Ø160 mm L = 900 mm	(1)	**20147030**
Air/flue manifold technical box Ø300 mm L = 900 mm	(1)	**20147028**
Air/flue manifold technical box Ø160 mm L = 1800 mm	(1)	**20157595**
Air/flue manifold technical box Ø300 mm L = 1800 mm	(1)	**20157598**
"S" flue manifold technical box Ø300 mm L = 1800 mm (SP60-DN100)	(1)	**20157599**
Bands for crane lifting handling		**20146844**
Handling wheels	(2)	**20146845**
Internal light emergency and service kit		**20146846**

(1) To be used as indicated in the tables below.
(2) To be used during installation.

OPEN CHAMBER BOILER CONFIGURATION

Selection table	Exhaust flue side	Technical box side
Table A	Right	Right
	Left	Left
Collectors not necessary	Left	Right
	Right	Left

ROOM SEALED BOILER CONFIGURATION

Selection table	Exhaust flue side	Air suction side	Technical box side
Table A	Right	Right	Right
	Left	Left	Left
Table B	Left	Right	Right
	Left	Right	Left
	Right	Left	Right
	Right	Left	Left
Collectors not necessary	Left	Left	Right
	Right	Right	Left

LEFT SIDE CONFIGURATION

Technical box for hydraulic separator

Technical box for plate heat exchanger

RIGHT SIDE CONFIGURATION

Technical box for hydraulic separator

Technical box for plate heat exchanger

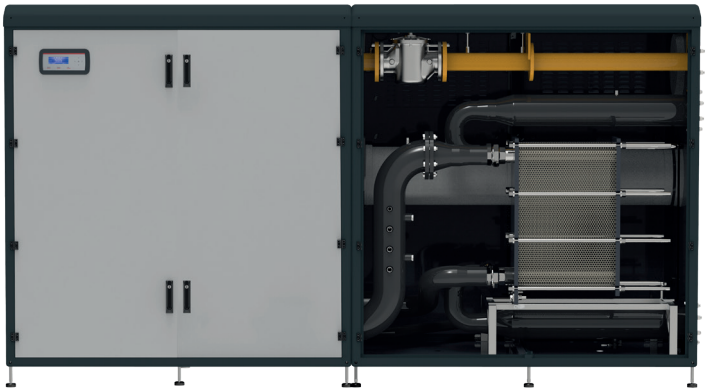


TABLE A

Code and number of the air/fume manifold	Technical box for circulator (only "V" versions)				Technical box for hydraulic separator				Technical box for heat exchanger					
Chamber type	Open chamber		Room sealed		Open chamber		Room sealed		Open chamber			Room sealed		
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 140-2	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 180-2	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 230-2	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 270-2 (*)	1x ●				1x ●				1x ●					
STEEL PRO POWER 300-3	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 345-3	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 405-3 (*)	1x ●				1x ●				1x ●					
STEEL PRO POWER 460-4	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 540-4		1x ●		2x●		1x ●		2x●		1x ●			2x●	
STEEL PRO POWER SYSTEM 675		1x ●		2x●		1x ●		2x●		1x ●			2x●	
STEEL PRO POWER SYSTEM 810		1x ●		2x●		1x ●		2x●		1x ●			2x●	
STEEL PRO POWER SYSTEM 945		1x ●		2x●		1x ●		2x●			1x ●			(**)
STEEL PRO POWER SYSTEM 1080		1x ●		2x●		1x ●		2x●			1x ●			(**)
STEEL PRO POWER SYSTEM 1215		1x ●		2x●		1x ●		2x●			1x ●			(**)
STEEL PRO POWER SYSTEM 1350		1x ●		2x●		1x ●		2x●			1x ●			(**)

NOTE: to be used only if the fume outlet side is the same as the hydraulic outlet side.
(*) Flue discharge/ air intake on the technical box side not available in case of sealed chamber, the air intake is mandatory on the boiler side.
(**) In case of a technical box with plate heat exchanger and sealed installation, the air intake must take place on the boiler side and not on the technical box side. In this case also for the pump technical box, if present, is necessary to adopt only one code 20147028.

TABLE B

Code and number of the air/fume manifold	Technical box for circulator (only "V" versions)				Technical box for hydraulic separator				Technical box for heat exchanger					
Chamber type	Open chamber		Room sealed		Open chamber		Room sealed		Open chamber			Room sealed		
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 140-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 180-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 230-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 270-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 300-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 345-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 405-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 460-4	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 540-4		1x ●		1x ●		1x ●		1x ●		1x ●			1x ●	
STEEL PRO POWER SYSTEM 675		1x ●		1x ●		1x ●		1x ●		1x ●			1x ●	
STEEL PRO POWER SYSTEM 810		1x ●		1x ●		1x ●		1x ●		1x ●			1x ●	
STEEL PRO POWER SYSTEM 945		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●
STEEL PRO POWER SYSTEM 1080		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●
STEEL PRO POWER SYSTEM 1215		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●
STEEL PRO POWER SYSTEM 1350		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●

7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION

Description	Code
Kit IPX5D upper coverage for outdoor installation L = 900 mm	**20146841**
Kit IPX5D upper coverage for outdoor installation L = 1800 mm	**20146842**
Kit IPX5D display coverage	**20146843**
Outdoor insulation kit for 3" blind flanges	**20146953**
Outdoor insulation kit for 5" blind flanges	**20146954**

NOTE: to be used only in the case of outdoor installation.

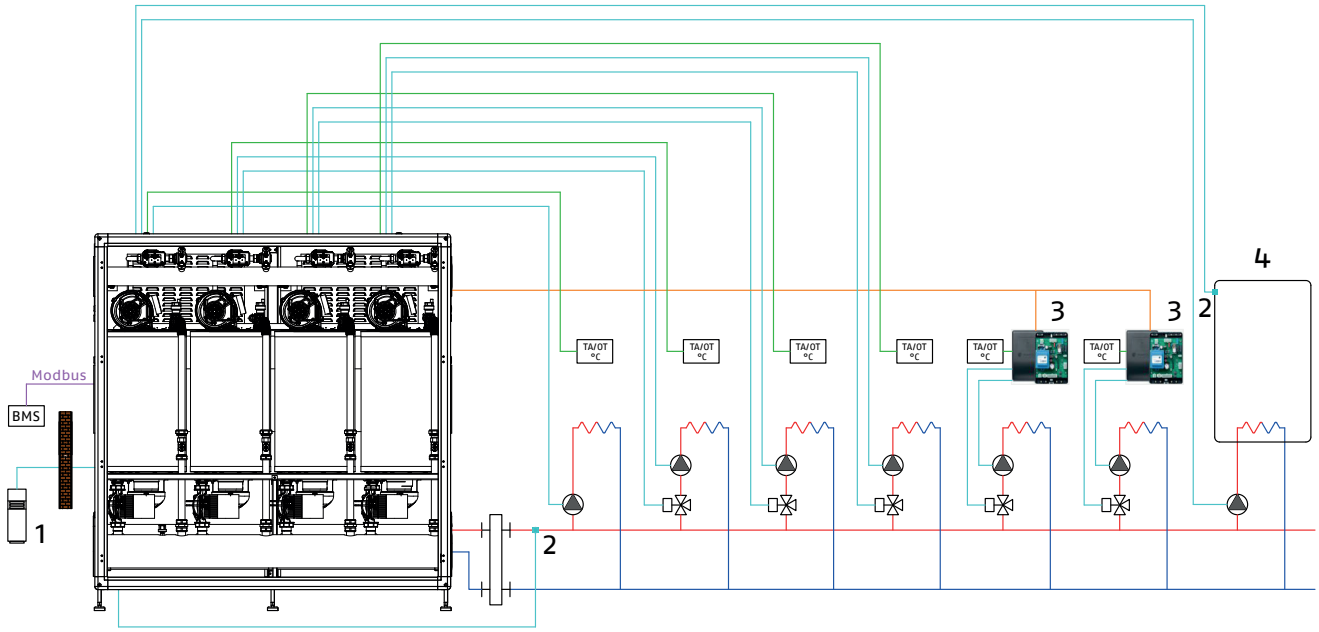
MATCHING TABLE OF BOX + DISPLAY COVERS SELECTION TABLE FOR OUTDOOR INSTALLATION

Description	Configuration with technical box for hydraulic separator					Configuration with technical box for plate heat exchanger				
	20146841	20146842	20146843	20146953	20146954	20146841	20146842	20146843	20146953	20146954
STEEL PRO POWER 114-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 140-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 180-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 230-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 270-2 P	2x ●		1x ●		1x ●	1x ●	1x ●	1x ●		1x ●
STEEL PRO POWER 300-3 P	1x ●	1x ●	1x ●	1x ●			2x ●	1x ●	1x ●	
STEEL PRO POWER 345-3 P	1x ●	1x ●	1x ●	1x ●			2x ●	1x ●	1x ●	
STEEL PRO POWER 405-3 P	1x ●	1x ●	1x ●		1x ●		2x ●	1x ●		1x ●
STEEL PRO POWER 460-4 P	1x ●	1x ●	1x ●	1x ●			2x ●	1x ●	1x ●	
STEEL PRO POWER 540-4 P	1x ●	1x ●	1x ●		1x ●		2x ●	1x ●		1x ●
STEEL PRO POWER SYSTEM 675	2x ●	1x ●	2x ●		1x ●	1x ●	2x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 810	2x ●	1x ●	2x ●		1x ●	1x ●	2x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 945	1x ●	2x ●	2x ●		1x ●		3x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 1080	1x ●	2x ●	2x ●		1x ●		3x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 1215	2x ●	2x ●	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●
STEEL PRO POWER SYSTEM 1350	2x ●	2x ●	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●

8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES

Description	Notes	Code
External probe		20132778
Immersion probe	(1)	1220599
Electronic management kit for single direct or additional mixed zone (max 16)		20130811

(1) Utilized for the management of secondary/tank circuit.



Key to layout
1. External probe code 20132778
2. Immersion probe code 1220599
3. Electronic kit for managing additional direct or mixed zone (max 16) code 20130811
4. DHW cylinder

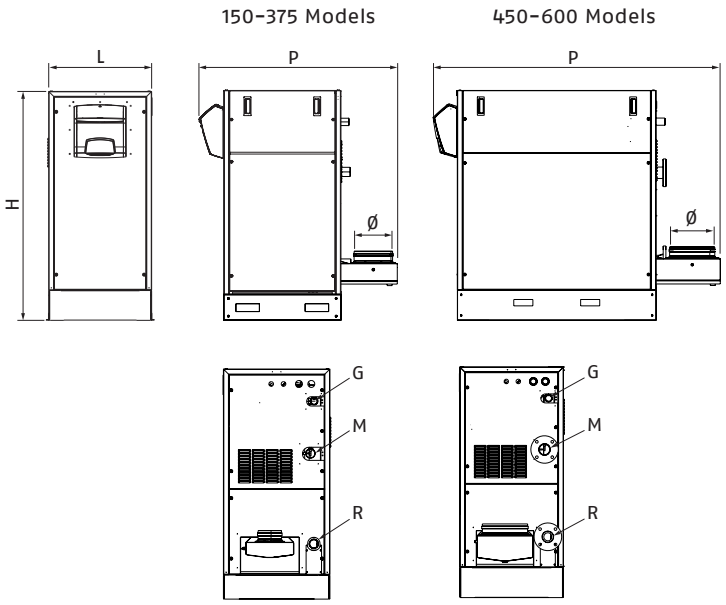
9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450-1500 kW)	(D)	4031812
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer HN3 (270-750 kW)	(D)(1)	4031813

(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.
(1) Equipped with condensate pump.

Modular condensing floor-standing boilers for indoor installation

Alu Pro Power



ERP

- In conformity with Directive 2009/125/EC
- Modular floor-standing condensing boilers, featuring a heat-exchanger made of a special aluminium and silicon alloy with a wide modulation range (up to 1:40) and extremely reduced dimensions

Description	H mm	L mm	P mm	Ø mm	M/R Flow/Return connection	G Gas connection	Weight (empty) kg
ALU 115 PRO POWER	1534,5	690	1264	150	Ø 2" G	Ø 1" ½ G	240
ALU 150 PRO POWER	1534,5	690	1264	150	Ø 2" G	Ø 1" ½ G	240
ALU 225 PRO POWER	1534,5	690	1264	200	Ø 2" G	Ø 1" ½ G	310
ALU 300 PRO POWER	1534,5	690	1654	250	Ø 2" G	Ø 1" ½ G	395
ALU 349 PRO POWER	1534,5	690	1654	250	Ø 2" G	Ø 1" ½ G	470
ALU 375 PRO POWER	1534,5	690	1654	250	Ø 2" G	Ø 1" ½ G	470
ALU 450 PRO POWER	1534,5	690	2103	300	Flange PN10 DN65	Ø 1" ½ G	565
ALU 525 PRO POWER	1534,5	690	2103	300	Flange PN10 DN65	Ø 1" ½ G	640
ALU 600 PRO POWER	1534,5	690	2298	300	Flange PN10 DN65	Ø 1" ½ G	735

The heat-generator is composed by a cascade of independent 75-kW thermal modules, managed in cascade sequence, ensuring the best adaptation to the heat request and maximum reliability and peace of mind.
Continuous pre-mix burner in stainless steel ensures efficient, noiseless and high-efficiency combustion with low polluting emissions allowing to achieve Class 5 NOx (according to UNI EN 297). It is provided with thermoregulation suitable for the control of a modulating pump for the primary ring circuit.
The RIELLOtech regulation can control up to 8 boilers in a cascade application.

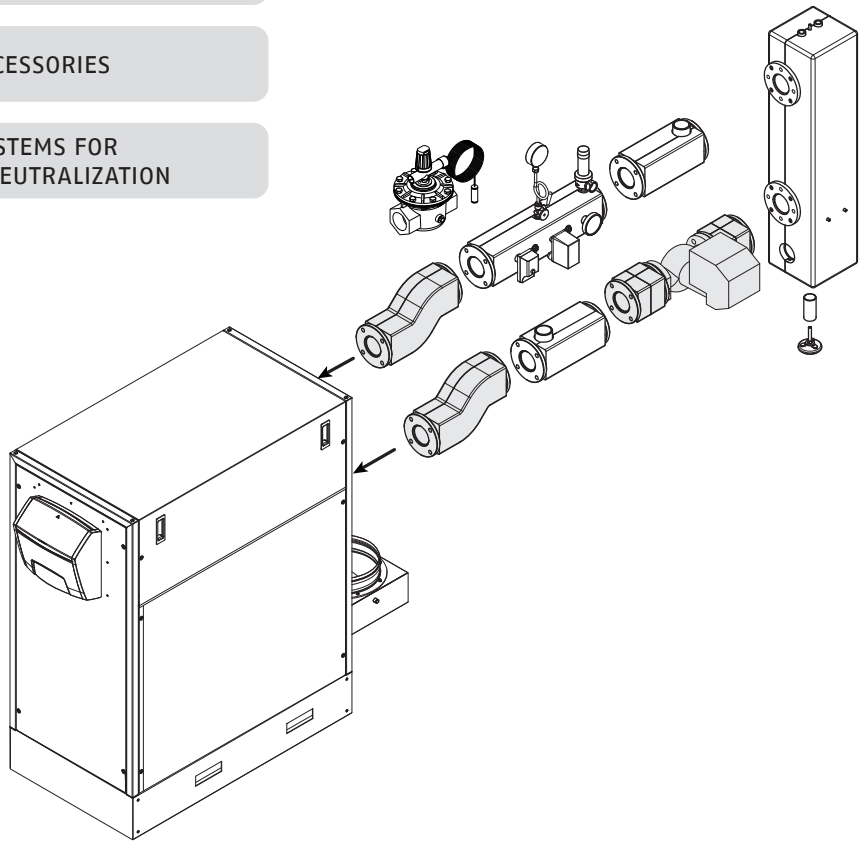
- Type of Appliance B23, B23P
- Low head losses
- Wide range of accessories for an easy, fast, flexible and complete installation
- Compact dimensions, reduced weight and the basement make the transport and the placement easier
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	
ALU 115 PRO POWER	112.1	119.6	15 - 115	97.5	104.0	108.0	**20021781**
ALU 150 PRO POWER	146.3	156.0	15 - 150	97.5	104.0	108.0	**20020843**
ALU 225 PRO POWER	219.4	234.0	15 - 225	97.8	104.0	108.0	**20020844**
ALU 300 PRO POWER	293.0	312.0	15 - 300	98.0	104.0	108.0	**20020845**
ALU 349 PRO POWER	340.3	363.0	15 - 349	98.3	104.0	108.0	**20029287**
ALU 375 PRO POWER	365.6	390.0	15 - 375	98.3	104.0	108.0	**20020846**
ALU 450 PRO POWER	438.8	468.0	15 - 450	98.3	104.0	108.0	**20020847**
ALU 525 PRO POWER	511.9	546.0	15 - 525	98.3	104.0	108.0	**20020848**
ALU 600 PRO POWER	585.0	624.0	15 - 600	98.3	104.0	108.0	**20020849**

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION

1. BOILER CONFIGURATION
2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS
4. ELECTRICAL ACCESSORIES
5. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION



1. BOILER CONFIGURATION

Choice of the type of installation:
A - Stand alone
B - Cascade

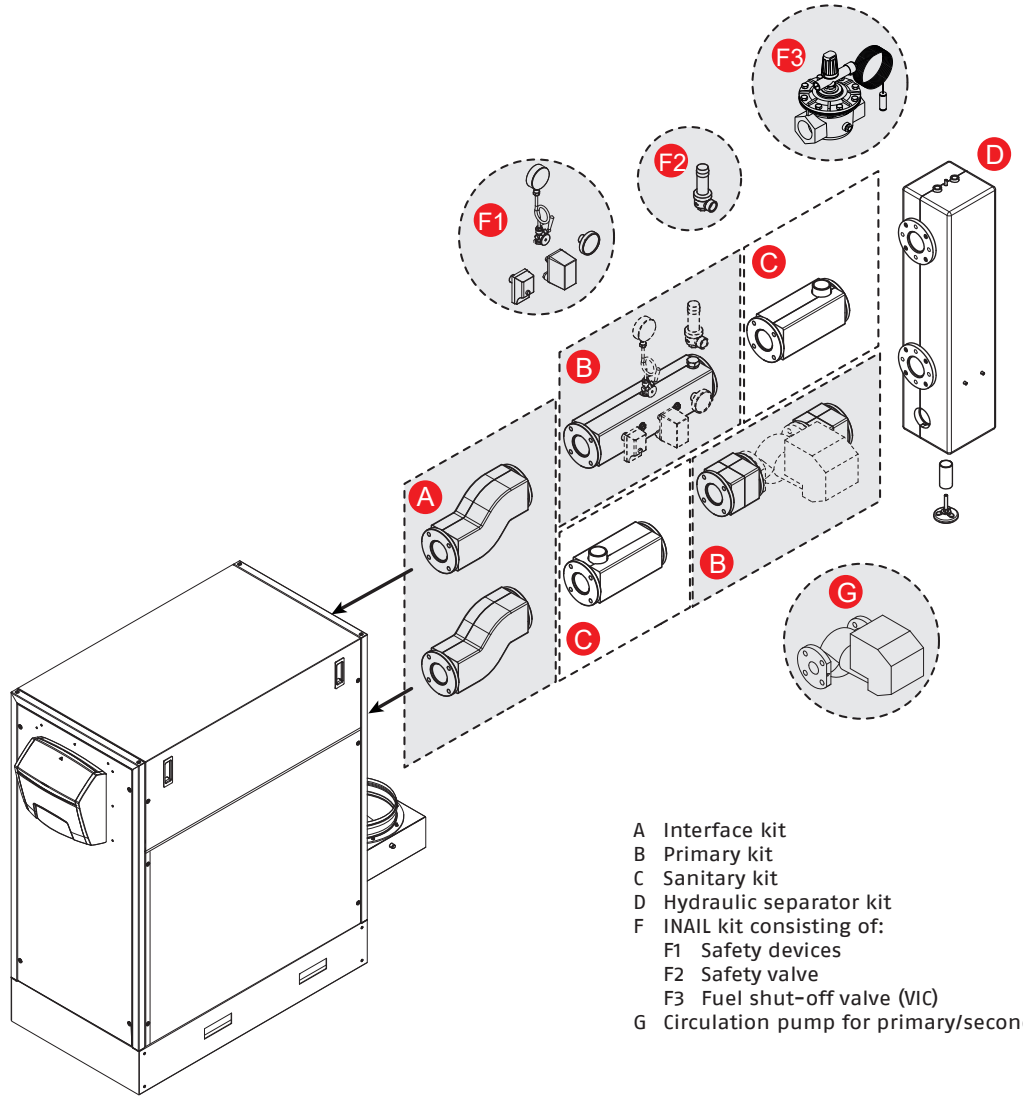
A - STAND ALONE HEAT INPUT

Description	ALU 115 PRO POWER	ALU 150 PRO POWER	ALU 225 PRO POWER	ALU 300 PRO POWER	ALU 349 PRO POWER	ALU 375 PRO POWER	ALU 450 PRO POWER	ALU 525 PRO POWER	ALU 600 PRO POWER
Rated heat input kW	115.0	150.0	225.0	300.0	349.0	375.0	450.0	525.0	600.0

B - CASCADE SYSTEM HEAT INPUT

Description	ALU 115 PRO POWER	ALU 150 PRO POWER	ALU 225 PRO POWER	ALU 300 PRO POWER	ALU 349 PRO POWER	ALU 375 PRO POWER	ALU 450 PRO POWER	ALU 525 PRO POWER	ALU 600 PRO POWER
Boiler heat output kW	115	150	225	300	349	375	450	525	600
No. boilers	TOTAL POWER								
2	230	300	450	600	698	750	900	1050	1200
3	345	450	675	900	1047	1125	1350	1575	1800
4	460	600	900	1200	1396	1500	1800	2100	2400
5	575	750	1125	1500	1745	1875	2250	2625	3000
6	690	900	1350	1800	2094	2250	2700	3150	3600
7	805	1050	1575	2100	2443	2625	3150	3675	4200
8	920	1200	1800	2400	2792	3000	3600	4200	4800

PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT



A Interface kit
B Primary kit
C Sanitary kit
D Hydraulic separator kit
F INAIL kit consisting of:
F1 Safety devices
F2 Safety valve
F3 Fuel shut-off valve (VIC)
G Circulation pump for primary/secondary circuit

2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Interface primary circuit kit up to 375 kW	(1)	20021753
Interface primary circuit kit up to 600 kW	(1)	20021752
Primary kit up to 300 kW	(2)	20021751
Primary kit up to 600 kW	(2)	20021750
Safety kit	(3)	4030091
Safety valve up to 460 kW (5.4 bar ØG.¾" F)	(4)	20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)	(4)	20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(5)(9)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(5)(10)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(5)(11)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(12)	20061640
Domestic water connection kit	(6)	20022521
Primary circuit pump MAGNA3 40-120 F	(8)	20183650
Primary circuit pump MAGNA3 65-120 F	(8)	20183652

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:
(1) Accessory type A.
(2) Accessory type B.
(3) Accessory type F1. To be completed with safety valve (F2) and VIC fuel shut-off valve (F3).
(4) Accessory type F2.
(5) Accessory type F3. Tripping temperature at 97 °C - Capillary length 5 m.
(6) Accessory type C.
(8) Accessory type G.
(9) Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
(10) Recommended up to a maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
(11) Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.
(12) Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
Hydraulic separator (up to 300 kW)	(1)	20009385
Hydraulic separator (up to 600 kW)	(1)	20009431
SP 20-DN32 49 (49A) N	(2)	20014240
SP 35-DN50 25 (25A) N	(2)	20140410
SP 35-DN50 31 (31A) N	(2)	20140411
SP 35-DN50 35 (35A) N	(2)	20140412
SP 35-DN50 39 (39A) N	(2)	20140413
SP 35-DN50 45 (45A) N	(2)	20140414
SP 35-DN50 49 (49A) N	(2)	20140415
SP 35-DN50 57 (57A) N	(2)	20140416
SP 35-DN50 65 (65A) N	(2)	20140418
SP 35-DN50 75 (75A) N	(2)	20140419
SP 35-DN50 81 (81A) N	(2)	20140420
SP 35-DN50 93 (93A) N	(2)	20140421
SP 35-DN50 105 (105A) N	(2)	20140423
SP 35-DN50 121 (121A) N	(2)	20140424
SP 40-DN65 59 (59A) N	(2)	20014231
SP 40-DN65 75 (75A) N	(2)	20140426
SP 40-DN65 93 (93A) N	(2)	20140427
SP 40-DN65 99 (99A) N	(2)	20140428
SP 40-DN65 111 (111A) N	(2)	20140429
SP 40-DN65 121 (121A) N	(2)	20140432
SP 40-DN65 145 (145A) N	(2)	20140433
SP 60-DN100 73 (73A) N	(2)	20140439
SP 60-DN100 85 (85A) N	(2)	20140440

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:
(1) Accessory type D.
(2) Plate heat exchangers for physical separation of primary and secondary circuits. To be used as an alternative to the hydraulic separator.

MATCHING TABLE FOR PRIMARY CIRCUIT MANAGMENT (A-B-C)

Description	Interface primary circuit kit		Primary kit		Primary circuit pumps		DHW connection kit
	MANDATORY ACCESSORIES						OPTIONAL
	Interface primary circuit kit up to 375 kW	Interface primary circuit kit up to 600 kW	Primary kit up to 300 kW	Primary kit up to 600 kW	Primary circuit pump MAGNA3 40-120 F	Primary circuit pump MAGNA3 65-120 F	Domestic water connection kit
	20021753	20021752	20021751	20021750	20183650	20183652	20022521
ALU 115 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 150 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 225 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 300 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 349 PRO POWER	1x ●			1x ●		1x ●	1x ●
ALU 375 PRO POWER	1x ●			1x ●		1x ●	1x ●
ALU 450 PRO POWER		1x ●		1x ●		1x ●	1x ●
ALU 525 PRO POWER		1x ●		1x ●		1x ●	1x ●
ALU 600 PRO POWER		1x ●		1x ●		1x ●	1x ●

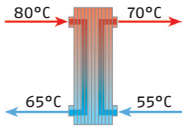
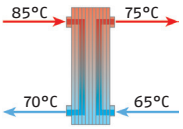
MATCHING TABLE OF SAFETY DEVICES (F)

Description	Safety kit	Safety valves		Fuel shut-off valve			
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.¾" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" ½	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"
	4030091	20023104	20023106	20009486	20009482	20009483	20061640
ALU 115 PRO POWER	1x ●	1x ●		1x ●			
ALU 150 PRO POWER	1x ●	1x ●			1x ●		
ALU 225 PRO POWER	1x ●	1x ●			1x ●		
ALU 300 PRO POWER	1x ●	1x ●				1x ●	
ALU 349 PRO POWER	1x ●	1x ●				1x ●	
ALU 375 PRO POWER	1x ●	1x ●				1x ●	
ALU 450 PRO POWER	1x ●	1x ●				1x ●	
ALU 525 PRO POWER	1x ●		1x ●			1x ●	
ALU 600 PRO POWER	1x ●	2x ●					1x ●

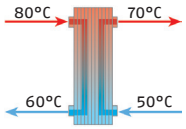
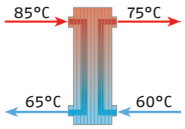
MATCHING TABLE OF HYDRAULIC SEPARATOR (D)

Description	Hydraulic separators	
	Hydraulic separator (up to 300 kW)	Hydraulic separator (up to 600 kW) kW
	20009385	20009431
ALU 115 PRO POWER	1x ●	
ALU 150 PRO POWER	1x ●	
ALU 225 PRO POWER	1x ●	
ALU 300 PRO POWER	1x ●	
ALU 349 PRO POWER		1x ●
ALU 375 PRO POWER		1x ●
ALU 450 PRO POWER		1x ●
ALU 525 PRO POWER		1x ●
ALU 600 PRO POWER		1x ●

MATCHING PLATE EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 15 °C

Description	Plate heat exchangers															
	ΔT primary/secondary = 10 °C								ΔT primary/secondary = 7,2 °C							
																
	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 57 (57A) N	SP 35-DN50 75 (75A) N	SP 40-DN65 93 (93A) N	SP 40-DN65 111 (111A) N	SP 40-DN65 121 (121A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 65 (65A) N	SP 35-DN50 81 (81A) N	SP 35-DN50 105 (105A) N	SP 35-DN50 121 (121A) N	SP 40-DN65 145 (145A) N	SP 60-DN100 73 (73A) N	SP 60-DN100 85 (85A) N
	20140410	20140411	20140414	20140416	20140419	20140427	20140429	20140432	20140411	20140414	20140418	20140420	20140423	20140424	20140433	20140439	20140440
ALU 115 PRO POWER	●								●								
ALU 150 PRO POWER		●								●							
ALU 225 PRO POWER			●								●						
ALU 300 PRO POWER				●								●					
ALU 349 PRO POWER					●								●				
ALU 375 PRO POWER					●									●			
ALU 450 PRO POWER						●									●		
ALU 525 PRO POWER							●									●	
ALU 600 PRO POWER								●									●

MATCHING PLATE EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 20 °C

Description	Plate heat exchangers															
	ΔT primary/secondary = 10 °C								ΔT primary/secondary = 7,2 °C							
																
	SP20-DN32 49 (49A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 57 (57A) N	SP 35-DN50 75 (75A) N	SP 40-DN65 93 (93A) N	SP 40-DN65 111 (111A) N	SP 40-DN65 121 (121A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 65 (65A) N	SP 35-DN50 81 (81A) N	SP 35-DN50 105 (105A) N	SP 35-DN50 121 (121A) N	SP 40-DN65 145 (145A) N	SP 60-DN100 73 (73A) N	SP 60-DN100 85 (85A) N
	20011240	20140411	20140414	20140416	20140419	20140427	20140429	20140432	20140411	20140414	20140418	20140420	20140423	20140424	20140433	20140439	20140440
ALU 115 PRO POWER	●								●								
ALU 150 PRO POWER		●								●							
ALU 225 PRO POWER			●								●						
ALU 300 PRO POWER				●								●					
ALU 349 PRO POWER					●								●				
ALU 375 PRO POWER					●									●			
ALU 450 PRO POWER						●									●		
ALU 525 PRO POWER							●									●	
ALU 600 PRO POWER								●									●

MATCHING TABLE FOR SECONDARY CIRCUIT MANAGEMENT (E)

Description	Secondary circuit	Secondary circuit pumps
	Primary circuit pump MAGNA3 40-120 F	Primary circuit pump MAGNA3 65-120 F
	20183650	20183652
ALU 115 PRO POWER	1x ●	
ALU 150 PRO POWER	1x ●	
ALU 225 PRO POWER	1x ●	
ALU 300 PRO POWER	1x ●	
ALU 349 PRO POWER		1x ●
ALU 375 PRO POWER		1x ●
ALU 450 PRO POWER		1x ●
ALU 525 PRO POWER		1x ●
ALU 600 PRO POWER		1x ●

4. ELECTRICAL ACCESSORIES

Description	Notes	Code
RIELLOtech CLIMA COMFORT		4031069
CLIMA COMFORT		20010903
CLIMA DISPLAY		20010906
RC3 remote control kit		20155028
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	(1)	20021674
NTC solar collector immersion probe (10kΩ)	(2)	4031913
NTC immersion probe (10kΩ) - 5 metres	(3)	20010068
NTC O-ring probe (10kΩ)	(4)	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	(5)	20010103

(1) Includes wiring and communication kit.
(2) Solar system probe.
(3) Primary probe (separator).
(4) Mixed zone probe.
(5) Storage tank probe.

5. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
N2 neutralisation kit (up to 450 kW)		4031810
HN2 neutralisation kit (up to 270 kW)		4031811
N3 neutraliser kit (from 450 to 1500 kW)		4031812
HN3 neutraliser kit (from 270 to 750 kW)	(1)	4031813

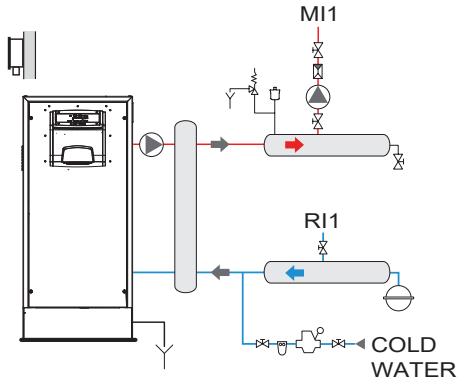
(1) Equipped with extraction pumps.

POSSIBLE SYSTEM COMPOSITIONS

DIRECT SYSTEM BASE CONFIGURATION 1

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375-600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)

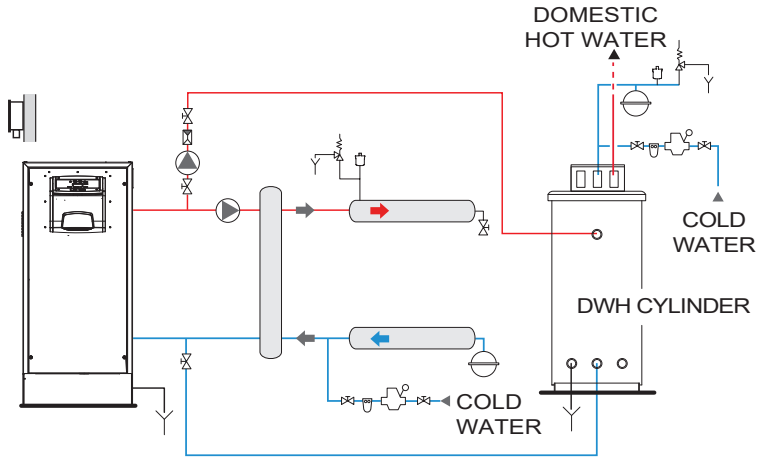
(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



DHW BASE CONFIGURATION WITH HEATER UPSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375-600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Domestic water connection kit	1	20022521
Sanitary kit (300-600 kW)	1	(2)
Primary circuit pump	1	(2)
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

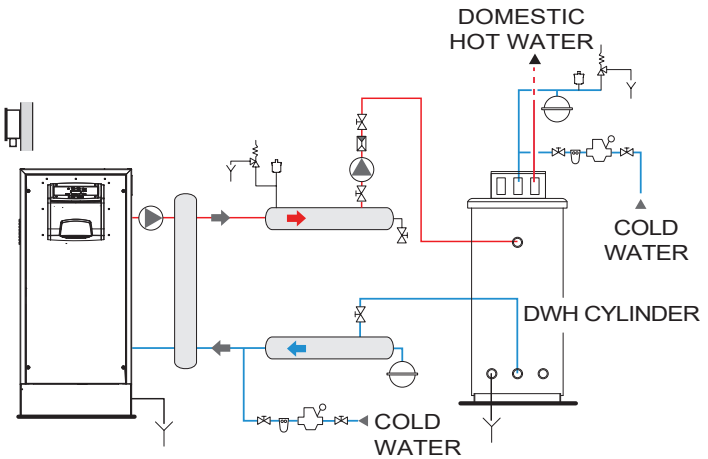
(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



DHW BASE CONFIGURATION WITH HEATER DOWNSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375-600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Sanitary kit (300-600 kW)	1	(2)
Primary circuit pump	1	(2)
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.

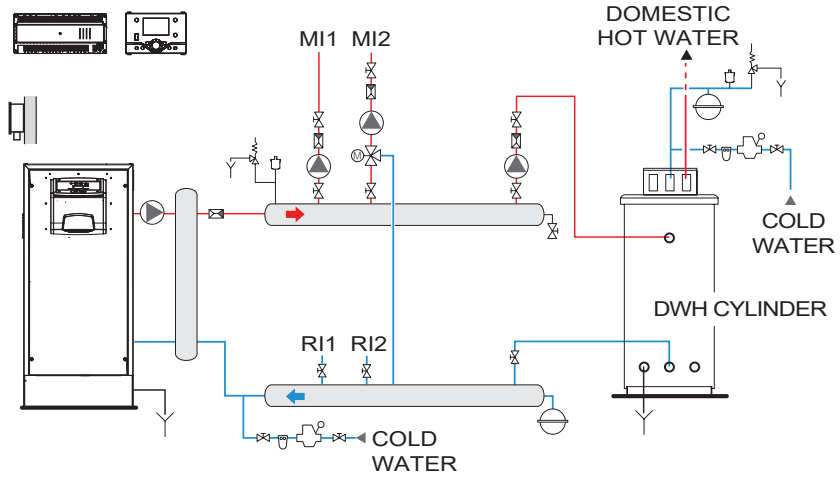


CONTROL PANEL SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375-600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC O-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) - 5 metres	1	20010068

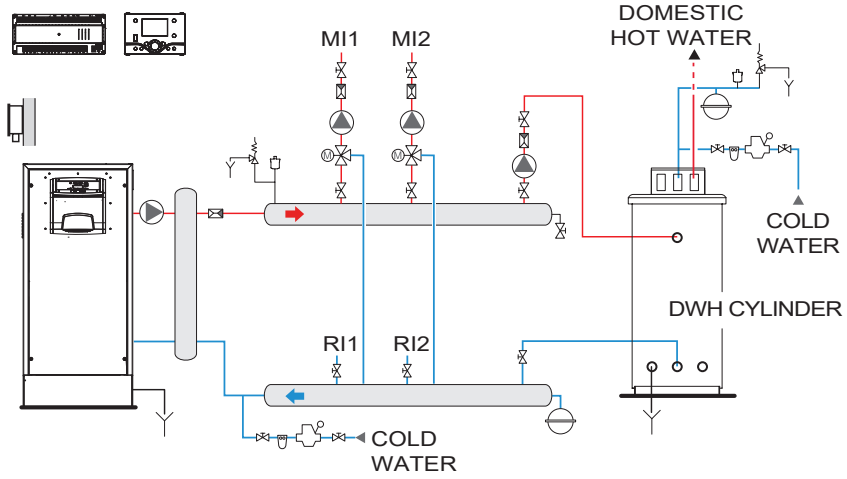
(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.
(*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	**(1)**
Interface primary circuit kit (375-600 kW)	1	**(2)**
Primary kit (300-600 kW)	1	**(2)**
Safety kit	1	**4030091**
Safety valve (460-580 kW)	1	**(2)**
Fuel shut-off valve kit (1"-3")	1	**(2)**
Primary circuit pump	1	**(2)**
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	**20021674**
CLIMA COMFORT	1	**20010903**
CLIMA DISPLAY (*)	1	**20010906**
NTC O-ring probe (10kΩ)	2	**20168680**
NTC DHW-tank probe (10kΩ) - 5 metres	1	**20010103**
NTC immersion probe (10kΩ) - 5 metres	1	**20010068**

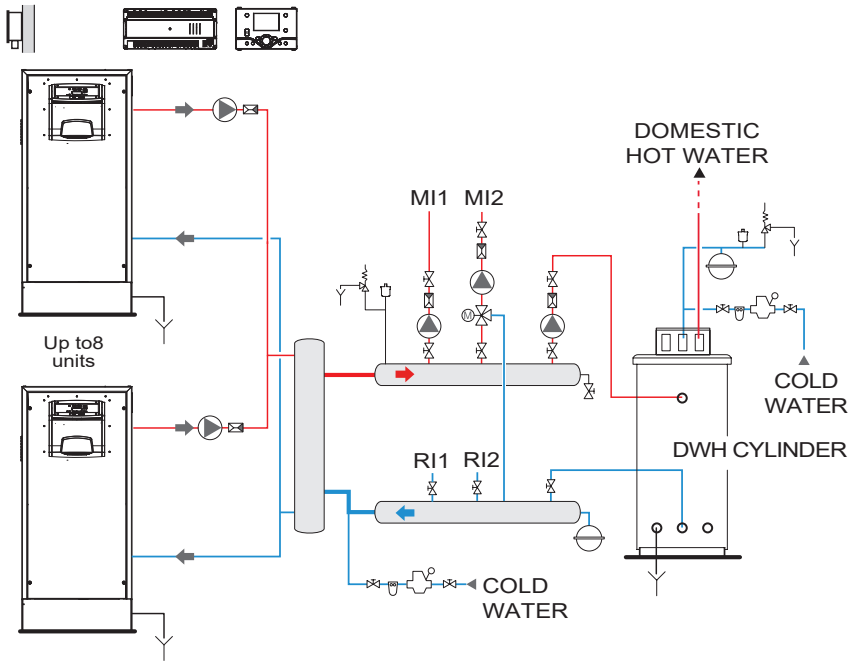
(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.
(*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115-600	1-8	(1)
Interface primary circuit kit (375-600 kW)	1-8	(2)
Primary kit (300-600 kW)	1-8	(2)
Safety kit	1-8	4030091
Safety valve (460-580 kW)	1-8	(2)
Fuel shut-off valve kit (1"-3")	1-8	(2)
Primary circuit pump	1-8	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1-8	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC immersion probe (10kΩ) - 5 metres	1	20010068
NTC O-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

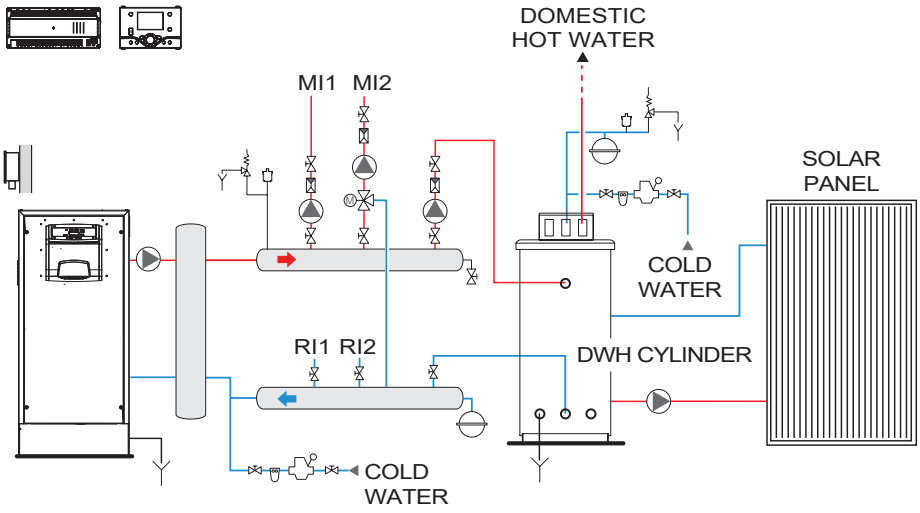
(1) Refer to table "B - CASCADE SYSTEM HEAT INPUT".
(2) Refer to the matching tables on the previous pages.
(*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115-600	1	**(1)**
Interface primary circuit kit (375-600 kW)	1	**(2)**
Primary kit (300-600 kW)	1	**(2)**
Safety kit	1	**4030091**
Safety valve (460-580 kW)	1	**(2)**
Fuel shut-off valve kit (1"-3")	1	**(2)**
Primary circuit pump	1	**(2)**
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	**20021674**
CLIMA COMFORT	1	**20010903**
CLIMA DISPLAY (*)	1	**20010906**
NTC O-ring probe (10kΩ)	1	**20168680**
NTC DHW-tank probe (10kΩ) - 5 metres	1	**20010103**
NTC immersion probe (10kΩ) - 5 metres	1	**20010068**
NTC solar collector immersion probe (10kΩ)	1	**4031913**

(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.
(*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.

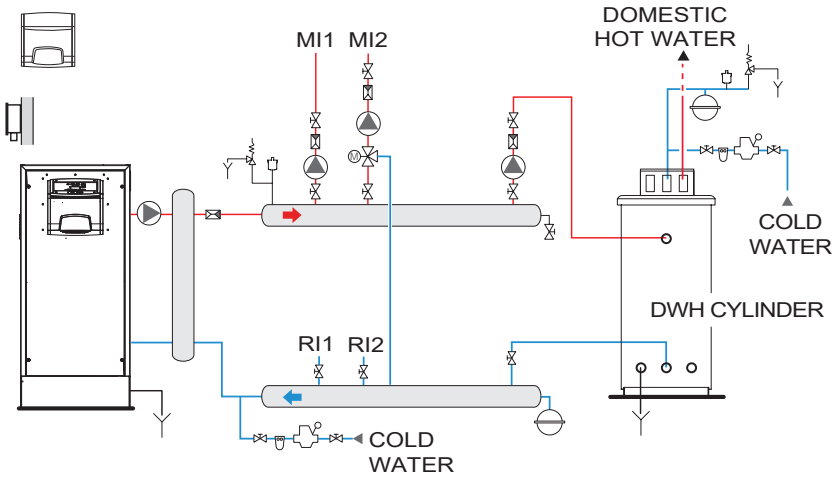


WALL MOUNTED SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375-600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC O-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) - 5 metres	1	20010068

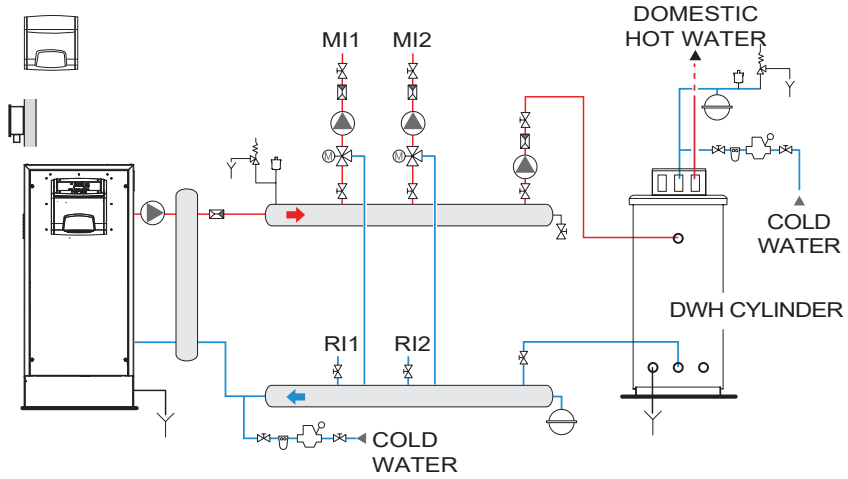
(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	**(1)**
Interface primary circuit kit (375-600 kW)	1	**(2)**
Primary kit (300-600 kW)	1	**(2)**
Safety kit	1	**4030091**
Safety valve (460-580 kW)	1	**(2)**
Fuel shut-off valve kit (1"-3")	1	**(2)**
Primary circuit pump	1	**(2)**
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	**20021674**
RIELLOtech CLIMA COMFORT	1	**4031069**
NTC O-ring probe (10kΩ)	2	**20168680**
NTC DHW-tank probe (10kΩ) - 5 metres	1	**20010103**
NTC immersion probe (10kΩ) - 5 metres	1	**20010068**

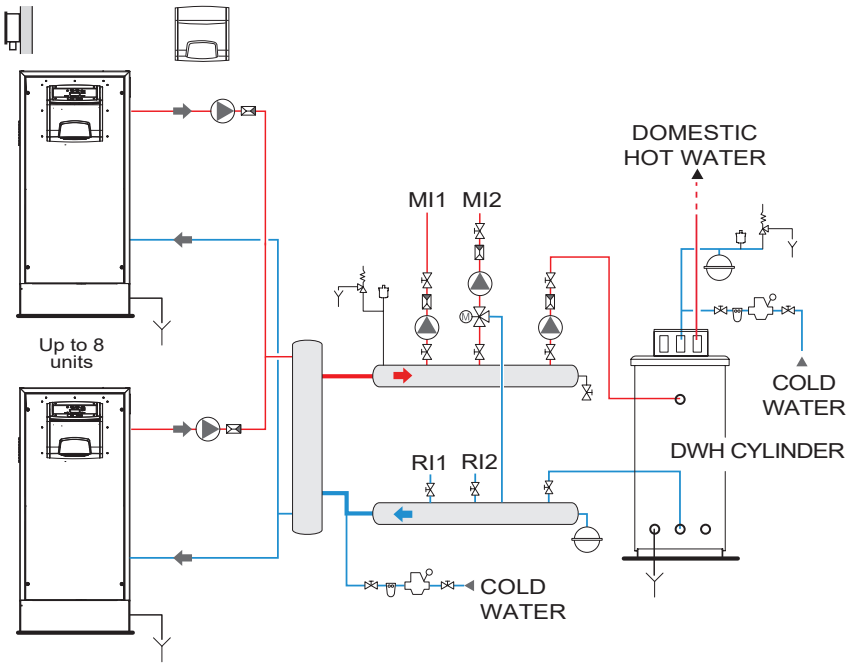
(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115-600	1-8	(1)
Interface primary circuit kit (375-600 kW)	1-8	(2)
Primary kit (300-600 kW)	1-8	(2)
Safety kit	1-8	4030091
Safety valve (460-580 kW)	1-8	(2)
Fuel shut-off valve kit (1"-3")	1-8	(2)
Primary circuit pump	1-8	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1-8	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC immersion probe (10kΩ) - 5 metres	1	20010068
NTC O-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

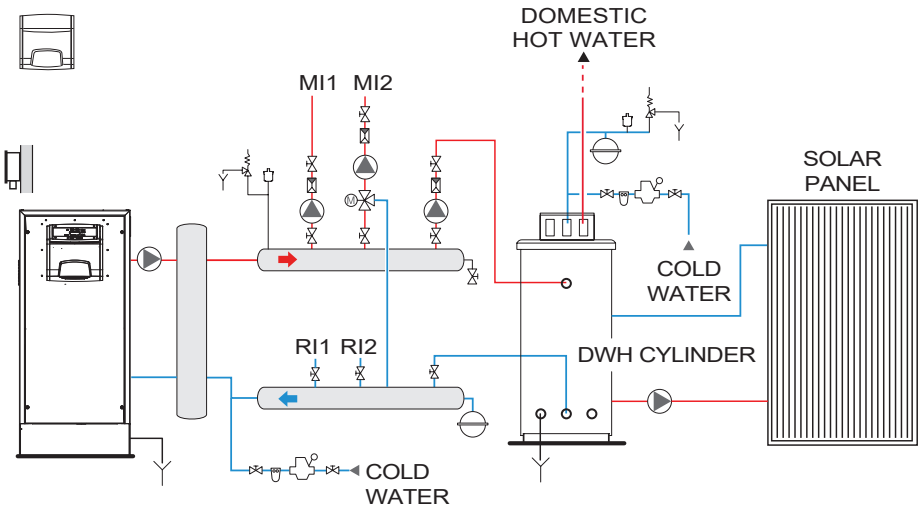
(1) Refer to table "B - CASCADE SYSTEM HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115-600	1	**(1)**
Interface primary circuit kit (375-600 kW)	1	**(2)**
Primary kit (300-600 kW)	1	**(2)**
Safety kit	1	**4030091**
Safety valve (460-580 kW)	1	**(2)**
Fuel shut-off valve kit (1"-3")	1	**(2)**
Primary circuit pump	1	**(2)**
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	**20021674**
RIELLOtech CLIMA COMFORT	1	**4031069**
NTC O-ring probe (10kΩ)	1	**20168680**
NTC DHW-tank probe (10kΩ) - 5 metres	1	**20010103**
NTC immersion probe (10kΩ) - 5 metres	1	**20010068**
NTC solar collector immersion probe (10kΩ)	1	**4031913**

(1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



FLOOR-STANDING BOILERS

ONLY HEATING

GAS

TAU UNIT

TAU UNIT 35 (3,4-34,1 KW)**
TAU UNIT 50 (4,9-48,7 KW)**
TAU UNIT 70 (6,7-68,6 KW)**
TAU UNIT 100 (9,7-97,5 KW)**
TAU UNIT 115 (11,2-111,7 KW)**
TAU UNIT 140 (13,9-138,9 KW)**
TAU UNIT 190 (18,6-185,8 KW)**

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TAU N

TAU 115 N (78,4-112,4 kW)***
TAU 150 N (108,2-146,6 kW)***
TAU 210 N (147,5-205,2 kW)***
TAU 270 N (207,2-264,3 kW)***
TAU 350 N (266,4-342,7 kW)***
TAU 450 N (345,0-441,9 kW)***
TAU 600 N (443,3-589,2 kW)***
TAU 800 N (590,8-785,6 kW)***
TAU 1000 N (787,4-982,0 kW)***
TAU 1150 N (984,3-1129,3 kW)***
TAU 1250 N (1131,8-1227,5 kW)***
TAU 1450 N (1229,7-1423,9 kW)***
TAU 1750 N (1424,0-1718,5 kW)***
TAU 2100 N (1721,2-2062,2 kW)***
TAU 2600 N (2065,3-2553,2 kW)***
TAU 3000 N (2056,8-2946,0 kW)***

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TAU N PREMIX

TAU 115 N PREMIX (78,4-112,4 kW)***
TAU 150 N PREMIX (108,2-146,6 kW)***
TAU 210 N PREMIX (147,5-205,2 kW)***
TAU 270 N PREMIX (207,2-264,3 kW)***
TAU 270 N PREMIX LPG (207,2-264,3 kW)***
TAU 350 N PREMIX (266,4-342,7 kW)***
TAU 450 N PREMIX (345,0-441,9 kW)***
TAU 600 N PREMIX (443,3-589,2 kW)***
TAU 800 N PREMIX (590,8-785,6 kW)***
TAU 1000 N PREMIX (787,4-982,0 kW)***
TAU 1150 N PREMIX (984,3-1129,3 kW)***
TAU 1250 N PREMIX (1131,8-1227,5 kW)***
TAU 1450 N PREMIX (1229,7-1423,9 kW)***
TAU 1750 N PREMIX (1424,0-1718,5 kW)***
TAU 2100 N PREMIX (1721,2-2062,2 kW)***
TAU 2600 N PREMIX (2065,3-2553,2 kW)***
TAU 3000 N PREMIX (2056,8-2946,0 kW)***

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OIL

TAU N OIL PRO

TAU 115 N OIL PRO (80,0-112,2 kW)***
TAU 150 N OIL PRO (108,2-146,4 kW)***
TAU 210 N OIL PRO (147,5-205,2 kW)***
TAU 270 N OIL PRO (207,3 -264,3 kW)***
TAU 350 N OIL PRO (266,5-343,7 kW)***
TAU 450 N OIL PRO (344,7-441,9 kW)***
TAU 600 N OIL PRO (442,9-589,2 kW)***
TAU 800 N OIL PRO (590,2-785,6 kW)***
TAU 1000 N OIL PRO (786,6-982,0 kW)***

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** Min/max useful power 80/60 °C
*** Max useful power 80/60 °C (approved power band)

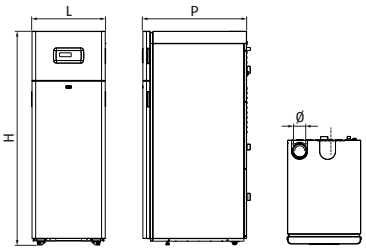
Floor standing gas condensing boilers

Tau Unit

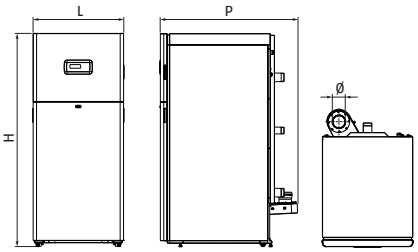
ERP

- In conformity with Regulation (EU) 2016/426
- Gas condensing boilers with a high water content titanium stabilised stainless steel body (AISI 316 "Ti" + AISI 444) and a low pollutant emission (Class 6 according to UNI EN 15502) modulating premix burner

TAU UNIT 35-115



TAU UNIT 140-190



Description	H mm	L mm	P mm	Ø mm	Net weight kg
TAU UNIT 35	1365	600	760	80	135
TAU UNIT 50	1550	600	890	80	155
TAU UNIT 70	1550	600	890	80	165
TAU UNIT 100	1810	600	870	110	245
TAU UNIT 115	1810	600	870	110	245
TAU UNIT 140	1880	800	1250	110	420
TAU UNIT 190	1880	800	1250	160	450

The high water content body has a vertical smoke pipe, and has two return lines to provide the best possible operation in condensing mode. The water stratifies at a high temperature at the top of the body, while the cold water accumulates at the bottom where the condensation occurs.
The boiler board, which has an easy-to-use interface, allows you to optimise the combustion, manage a remote storage cylinder for the production of domestic hot water and the supply temperature in climatic mode. The basic electronics includes include climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.
The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol.
With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones.
The optimal combustion management and the high modulation ratio of 1:10 (for models 35-115), provide a high performance and low polluting emissions (NOx in Class 6 according to UNI EN 15502). All models include the external probe.
The range can operate with both methane gas and LPG (with the relative accessory).

- High quality and precision finishings
- 1:10 modulation ratio (up to model 115)
- Easy to maintain because all the internal components are fully accessible
- Smaller overall dimensions
- Maximum operating pressure: 5 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Energy efficiency class	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)		
TAU UNIT 35	34.0	37.0	3.5-34.8	97.7	106.3	107.7	A	**20145133**
TAU UNIT 50	48.5	54.5	4.9-49.0	97.1	109.2	108.9	A	**20144105**
TAU UNIT 70	68.0	76.5	6.9-69.9	97.3	109.4	108.5	A	**20144106**
TAU UNIT 100	97.5	106.5	10.0-100.0	97.5	109.2	108.6	-	**20144107**
TAU UNIT 115	112.0	125.4	11.5-115.0	97.4	109.0	108.8	-	**20144108**
TAU UNIT 140	136.9	152.0	28.0-140.0	97.8	108.6	108.8	-	**20145135**
TAU UNIT 190	185.8	205.2	38.0-190.0	97.8	108.0	108.4	-	**20145136**

ACCESSORIES

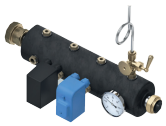
Description	Notes	Code
SAFETY ACCESSORIES		
Safety devices kit	(1)	**20180519**
Pressure gauge and safety valve set 4,5 bar	(2)	**20181867**
Pressure gauge and safety valve set 4 bar	(3)	**20181010**
Reduction fitting 2" - 1" ½	(4)	**20182680**
Reduction fitting 2"½ - 1"½	(5)	**20154992**
Fuel shut-off valve kit (VIC) - ØG.1"	(6)	**20009486**
Fuel shut-off valve kit (VIC) - ØG.1" ½	(7)	**20009482**
DN15 flowmeter		**20149998**
DN20 flowmeter		**20149996**
DN25 flowmeter		**20146343**
DN32 flowmeter		**20146345**
HYDRAULIC ACCESSORIES		
Expansion vessel (only for TAU UNIT 35)		**20154816**
Circulation pump (only for TAU UNIT 35)		**20154812**
Condensate neutralizer HN2 (up to 270 kW)	(8)	**4031811**
Condensate neutralizer N2 (up to 450 kW)		**4031810**
Condensate neutralizer N3 (450-1500 kW)		**4031812**
Condensate neutralizer HN3 (270-750 kW)	(8)(D)	**4031813**
LPG TRANSFORMATION KIT		
LPG transformation kit (TAU UNIT 35)		**20145150**
LPG transformation kit (TAU UNIT 50)		**20144699**
LPG transformation kit (TAU UNIT 70)		**20144700**
LPG transformation kit (TAU UNIT 100)		**20144703**
LPG transformation kit (TAU UNIT 115)		**20144704**
CASCADE CONFIGURATION, SECONDARY CIRCUIT AND ELECTRONIC ACCESSORIES		
External probe		**20132778**
Electronic kit for managing additional direct or mixed zone (max 16)	(9)	**20130811**
Immersion probe	(10)(11)	**1220599**
SEALED ROOM TRANSFORMATION KIT (TYPE C)		
Type C conversion kit (TAU UNIT 35-50)	(12)	**20144759**
Type C conversion kit (TAU UNIT 70)	(12)	**20144760**
Type C conversion kit (TAU UNIT 100-115)	(12)	**20144761**
Type C conversion kit (TAU UNIT 140-190)	(12)	**20145154**
FLUE DISCHARGE SYSTEM		
Conversion kit for back flue discharge (TAU UNIT 35)	(13)	**20160064**
Conversion kit for back flue discharge (TAU UNIT 50-70)	(13)	**20147234**
Conversion kit for back flue discharge (TAU UNIT 100-115)	(13)	**20147235**
PRIMARY CIRCUIT PUMPS FOR PLATE HEAT EXCHANGERS		
Primary circuit pump UPM3 FLEX AS 15-70 130 H6	(14)	**20147597**
Primary circuit pump UPML 32-105/180	(14)	**20125034**
Primary circuit pump UPM GEO 25-85/130	(14)	**20147604**

Description	Notes	Code
Primary circuit pump STRATOS PARA 30/1-12	(14)	**20125040**
Primary circuit pump MAGNA3 32-120 F	(14)	**20183636**
Primary circuit pump MAGNA3 40-120 F	(14)	**20183650**

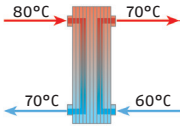
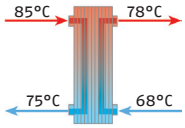
(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.
(1) Includes stub pipe with safety kit, excluding: safety valve set + pressure gauge, fuel shut-off valves and flow meter set (to be ordered separately).
(2) To be provided for Tau Unit 50-70 models
(3) To be provided for Tau Unit 100-190 models
(4) To be provided in case of safety kit installation for Tau Unit 100 and 115 models.
(5) To be provided in case of safety kit installation for Tau Unit 140 and 190 models.
(6) Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
(7) Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
(8) Equipped with extraction pumps.
(9) For ambient temperature adjustment, use Riello thermostats and timed thermostats.
(10) Used for secondary and heater management.
(11) Used as primary probe for cascade system management.
(12) Accessories for split discharge, for concentric discharge, to complete the installation, for the flue gas system, refer to page 403.
(13) For each type, check the maximum equivalent lengths by referring to the technical data sheet and/or by contacting the pre-sales service. For the flue gas system, refer to page 403.
(14) To be paired with HEATgate plate heat exchangers, depending on the operating conditions (primary/secondary ΔT°).

NOTE: Tau Unit 140 and 190 do not require the accessory kit for LPG conversion.

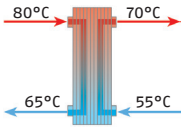
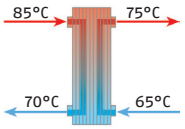
COMBINATIONS SAFETY KIT ACCESSORIES

Description	Safety basic kit	Hydraulic fitting		Safety valve and pressure gauge		Fuel shut-off valve		Flowmeter											
																			
								ΔT = 20 °C				ΔT = 15 °C				ΔT = 10 °C			
	Safety devices kit	Reduction fitting 2" - 1" ½	Reduction fitting 2"½ - 1"½	4,5 bar pressure gauge and safety valve set	Pressure gauge and safety valve set 4 bar	Gas shutting valve (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" ½	DN15 flowmeter	DN20 flowmeter	DN25 flowmeter	DN32 flowmeter	DN15 flowmeter	DN20 flowmeter	DN25 flowmeter	DN32 flowmeter	DN15 flowmeter	DN20 flowmeter	DN25 flowmeter	DN32 flowmeter
	20180519	20182680	20154992	20181867	20181010	20009486	20009482	20149998	20149996	20146343	20146345	20149998	20149996	20146343	20146345	20149998	20149996	20146343	20146345
TAU UNIT 50	●			●		●		●					●				●		
TAU UNIT 70	●			●		●			●				●					●	
TAU UNIT 100	●	●			●	●			●					●					●
TAU UNIT 115	●	●			●	●				●				●					●
TAU UNIT 140	●		●		●		●			●				●					●
TAU UNIT 190	●		●		●		●				●				●				●

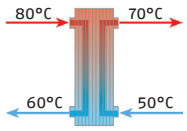
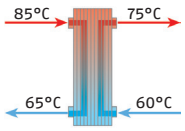
COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 10 °C

Description	Pump					Plate heat exchangers											
						ΔT primary/secondary = 10 °C						ΔT primary/secondary = 7,2°C					
																	
	UPM3 FLEX AS 15-70 130 H6	UPML 32-105/180	STRATOS PARA 30/1-12	MAGNA3 32-120 F	MAGNA3 40-120 F	SP20-DN32 21 (21A) N	SP 20-DN32 29(29A) N	SP 20-DN32 41 (41A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 35 (35A) N	SP 35-DN50 45 (45A) N	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 35 (35A) N	SP 35-DN50 45 (45A) N
	20147597	20125034	20125040	20183636	20183650	20016742	20014216	20014217	20140410	20140411	20140412	20140414	20016742	20014216	20014217	20140410	20140411	20140412	20140414
TAU UNIT 35	●					●							●						
TAU UNIT 50		●					●							●					
TAU UNIT 70			●					●							●				
TAU UNIT 100			●						●							●			
TAU UNIT 115			●							●							●		
TAU UNIT 140				●							●							●	
TAU UNIT 190					●							●							●

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 15 °C

Description	Pump				Plate heat exchangers											
					ΔT primary/secondary = 10 °C						ΔT primary/secondary = 7,2°C					
																
	UPM3 FLEX AS 15-70 130 H6	UPM GEO 25-85/130	UPML 32-105/180	STRATOS PARA 30/1-12	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 20-DN32 49 (49A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 35 (35A) N	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 39 (39A) N	SP 35-DN50 57 (57A) N
	20147597	20147604	20125034	20125040	20016742	20014216	20014217	20014240	20140410	20140412	20016742	20014216	20014217	20140411	20140413	20140416
TAU UNIT 35	●				●						●					
TAU UNIT 50	●				●							●				
TAU UNIT 70		●				●							●			
TAU UNIT 100			●				●							●		
TAU UNIT 115				●				●						●		
TAU UNIT 140				●					●						●	
TAU UNIT 190				●						●						●

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 20 °C

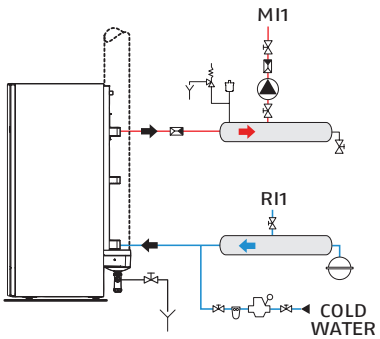
Description	Pump				Plate heat exchangers												
					ΔT primary/secondary = 10 °C						ΔT primary/secondary = 7,2°C						
																	
	UPM3 FLEX AS 15-70 130 H6	UPM GEO 25-85/130	UPML 32-105/180	STRATOS PARA 30/1-12	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 20-DN32 49 (49A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 35 (35A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 20-DN32 49 (49A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 35 (35A) N	SP 35-DN50 39 (39A) N	SP 35-DN50 57 (57A) N
	20147597	20147604	20125034	20125040	20016742	20014216	20014217	20014240	20140410	20140412	20014216	20014217	20014240	20140411	20140412	20140413	20140416
TAU UNIT 35	●				●						●						
TAU UNIT 50	●					●						●					
TAU UNIT 70	●					●							●				
TAU UNIT 100		●					●							●			
TAU UNIT 115			●					●							●		
TAU UNIT 140				●					●							●	
TAU UNIT 190				●						●							●

POSSIBLE SYSTEM COMPOSITIONS

STANDARD CONFIGURATION 1 DIRECT SYSTEM

Description	Quantity	Code
TAU UNIT 35-190	1	**(1)**
External probe	1	**20132778**
Safety devices kit (only for TAU UNIT 50-190)	1	**20180519**
Hydraulic fitting	1	**(2)**
Safety valve and pressure gauge	1	**(2)**
Fuel shut-off valve (only for TAU UNIT 50-190)	1	**20009486**
Flowmeter (only for TAU UNIT 50-190)	1	**(2)**

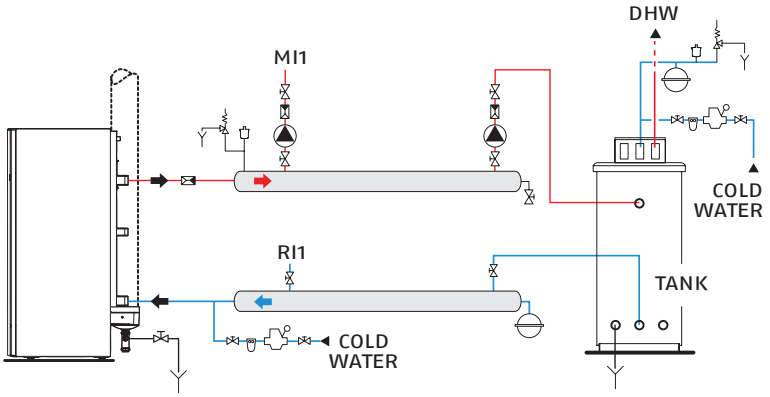
(1) Refer to the "TECHNICAL DATA" table.
(2) Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Immersion probe	1	1220599
Safety devices kit (only for TAU UNIT 50-190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Flowmeter (only for TAU UNIT 50-190)	1	(2)

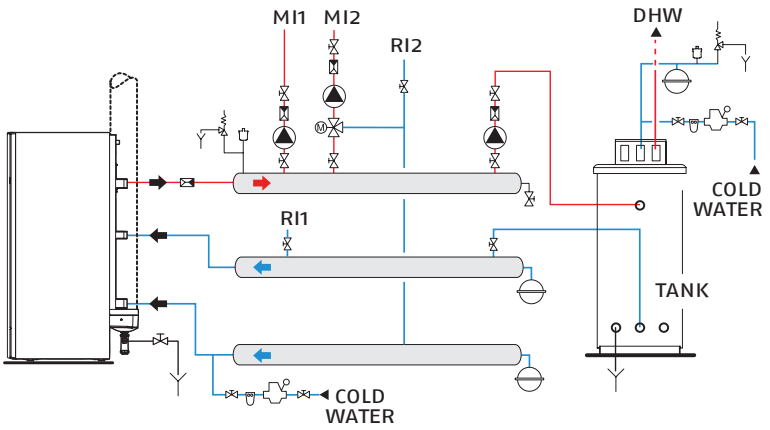
(1) Refer to the "TECHNICAL DATA" table.
(2) Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50-190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for TAU UNIT 50-190)	1	(2)

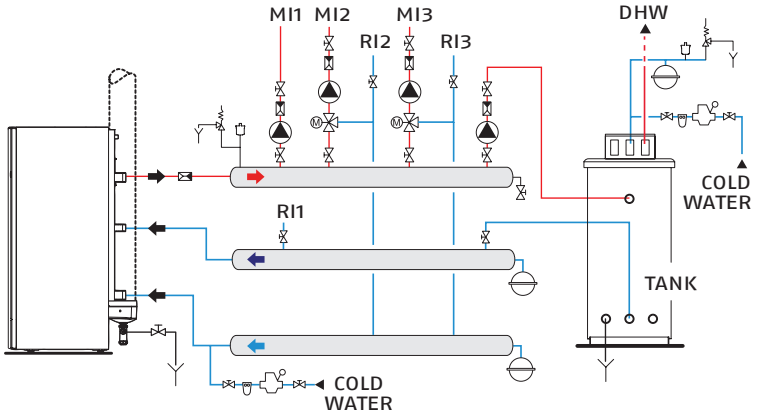
(1) Refer to the "TECHNICAL DATA" table.
(2) Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 2 MIXED + DHW SYSTEMS

Description	Quantity	Code
TAU UNIT 35-190	1	**(1)**
External probe	1	**20132778**
Safety devices kit (only for TAU UNIT 50-190)	1	**20180519**
Hydraulic fitting	1	**(2)**
Safety valve and pressure gauge	1	**(2)**
Fuel shut-off valve (only for TAU UNIT 50-190)	1	**20009486**
Immersion probe	1	**1220599**
Electronic kit for managing additional direct or mixed zone (max 16)	2	**20130811**
Flowmeter (only for TAU UNIT 50-190)	1	**(2)**

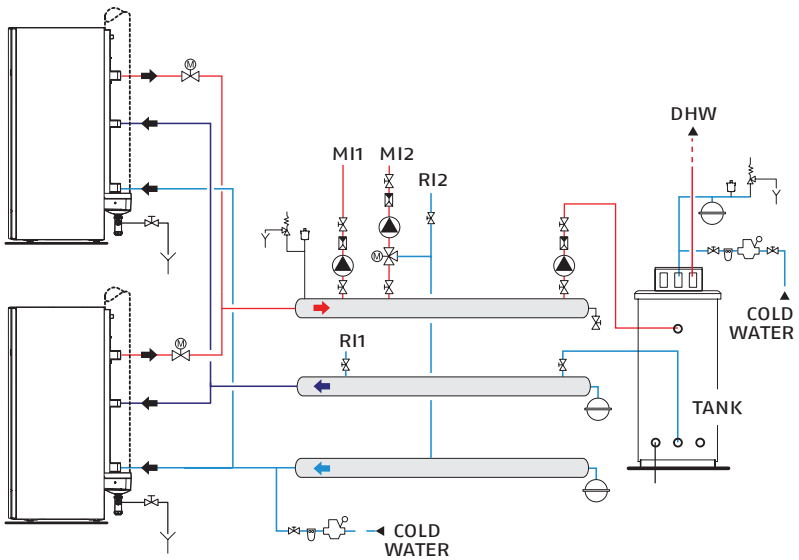
(1) Refer to the "TECHNICAL DATA" table.
(2) Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CASCADE CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM (maximum 16 generators)

Description	Quantity	Code
TAU UNIT 35-190	2	**(1)**
External probe	1	**20132778**
Safety devices kit (only for TAU UNIT 50-190)	2	**20180519**
Hydraulic fitting	2	**(2)**
Safety valve and pressure gauge	2	**(2)**
Fuel shut-off valve (only for TAU UNIT 50-190)	1	**20009486**
Immersion probe	2	**1220599**
Electronic kit for managing additional direct or mixed zone (max 16)	1	**20130811**
Flowmeter (1 for each boiler; only for TAU UNIT 50-190)	2	**(2)**

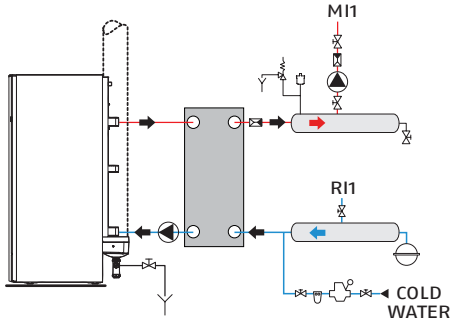
(1) Refer to the "TECHNICAL DATA" table.
(2) Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



STANDARD CONFIGURATION 1 DIRECT SYSTEM WITH PLATE HEAT EXCHANGER

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50-190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Pump	1	(3)
Plate heat exchanger	1	(3)
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for TAU UNIT 50-190)	1	(2)

(1) Refer to the "TECHNICAL DATA" table.
(2) Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.
(3) Refer to the "COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS" table in the "ACCESSORIES" section.



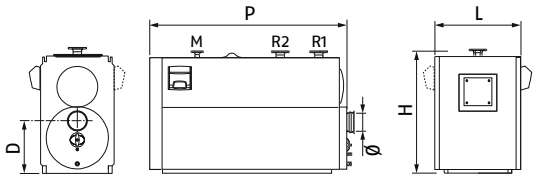
Condensing three flue gas passes stainless steel jet burners boilers

Tau N

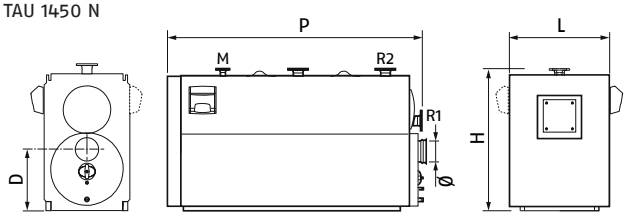
ERP

- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water content, suitable for the operation with gas jet burners

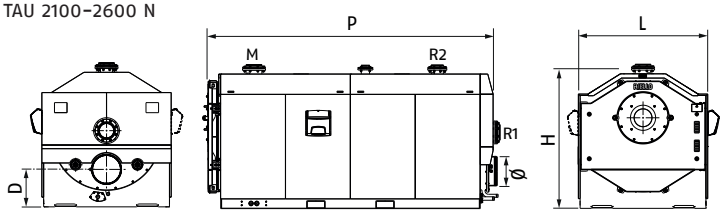
TAU 115-1250 N



TAU 1450 N



TAU 2100-2600 N



Description	H mm	L mm	P mm	D mm	Ø mm	M DN	R1 DN	R2 DN	Net weight kg
TAU 115 N	1315	740	1455	505	160	65	65	50	545
TAU 150 N	1315	740	1455	505	200	65	65	50	545
TAU 210 N	1315	740	1455	505	200	65	65	50	580
TAU 270 N	1450	850	1630	545	250	65	65	50	737
TAU 350 N	1450	850	1830	545	250	80	80	65	823
TAU 450 N	1630	900	2035	645	300	100	100	80	1185
TAU 600 N	1630	900	2235	645	300	100	100	80	1370
TAU 800 N	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N	1910	1060	2810	680	350	125	125	80	2245
TAU 1150 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1250 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1450 N	2180	1225	3175	805	450	150	150	100	3280
TAU 1750 N	1945	1750	3620	521	400	200	200	150	4265
TAU 2100 N	1945	1750	4020	521	400	200	200	150	4750
TAU 2600 N	2128	1850	4425	552	450	200	200	150	5550
TAU 3000 N	2170	1950	4640	600	450	200	200	150	6750

M Delivery.
R1 Low temperature return system.
R2 High temperature return system.

TAU N is a condensing floor standing boiler, with high water content for heating room installation; suitable for heating and domestic hot water production in combination with a proper water tank .
Three-pass boiler, in which all the components in contact with the flue gas smokes are in titanium-stabilized stainless steel, designed on the principle of heat stratification: the combustion chamber at the top and the tube bundle at the bottom (smooth pipes with removable turbulators), allow to optimize heat exchange and energy efficiency, so as to obtain high efficiency, thanks to the condensation technique. The generator has been designed with a structure capable of containing thermal expansions; particular attention has been paid to the thermal insulation of the boiler body, the painted steel panels and the door, with the use of high density glass wool mats.
Some models are also available in a modular version. The models up to 1450 kW are developed with a vertical structure with overlapping planes, to facilitate handling and make easier the introduction into the heating room.
The new 1750-3000 models are developed on a "square" structure with a single planking, to maintain the high water content and, at the same time, guarantee maximum efficiency.
To make easier the inspections, maintenance and cleaning of the internal parts, the front door and the closing of the smoke chamber can be fully opened.
- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with RIELLOtech control panels
- Built-in drain condensate
- Maximum operating pressure 6 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Back-pressure in combustion chamber mbar	Notes	Code
	Output useful 80°/60° max	Output useful 40°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (40°/30°) %	Useful 30% Pn (30 °C)			
TAU 115 N	112.1	123.1	115	97.5	107	108	2.2		**20120144**
TAU 150 N	146.3	159.7	150	97.5	106.5	108.5	2.0		**4031860.0**
TAU 210 N	205.2	223.6	210	97.7	106.5	109.3	2.7		**4031861.0**
TAU 270 N	265.1	290.2	270	98.2	107.5	109.2	3.2		**4031862.0**
TAU 350 N	344.1	375.2	349	98.3	107.5	108.5	4.6		**4031863.0**
TAU 450 N	442.4	481.5	450	98.3	107	108.5	5.0		**4031864.0**
TAU 600 N	589.8	642	600	98.3	107	108.5	5.5		**4031865.0**
TAU 800 N	786.4	860	800	98.3	107	108.5	5.7	(D)(T)	**4031866.0**
TAU 1000 N	983	1070	1000	98.3	107	108.5	6.3	(D)(T)	**4031867.0**
TAU 1150 N	1129.3	1230.5	1150	98.3	107	108.5	6.6	(D)(T)	**20136528**
TAU 1250 N	1229.7	1337.5	1250	98.3	107	108.5	6.8	(D)(T)	**4031868.0**
TAU 1450 N	1425.6	1551.5	1450	98.3	107	108.5	7.4	(D)(T)	**4031869.0**
TAU 1750 N	1718.5	1881.2	1750	98.3	107.5	108.7	8.4	(D)(T)	**20162157**
TAU 2100 N	2062.2	2258.7	2100	98.3	107.5	108.7	9.6	(D)(T)	**20162158**
TAU 2600 N	2553.2	2796.5	2600	98.3	107.5	108.7	11.5	(D)(T)	**20162159**
TAU 3000 N	2946.0	3226.8	3000	98.3	107.5	108.7	11.6	(D)(T)	**20162160**

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
(T) Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.
Maximum operating pressure 6 bar.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit up to 450 kW		**4031810**
N3 neutraliser kit from 450 to 1500 kW		**4031812**
HN2 neutralisation kit up to 270 kW	(1)	**4031811**
HN3 neutraliser kit from 280 to 750 kW	(1)(D)	**4031813**
MECHANICAL ACCESSORIES		
Burner flange		**4031196**
Burner flange		**20178775**
Burner flange		**20163867**

(1) Equipped with extraction pumps.
(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

CONTROL PANELS

Description	Installation	Code
RIELLOtech CLIMA COMFORT	Vertical	**4031069**

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																		Burner flange		Control panels	
		Yellow flame (Standard)																					
		Two stage								Modulating													
		-								Mechanical cam													
		-								-													
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1		Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3784702	3785102	3785302	3785502	20068351	20068361	3788410	3785813	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361		20178757	20178775	4031069	20013035
TAU 450 N	5.0	●																				●	
	5.0									●												●	●
TAU 600 N	5.5		●																			●	
	5.5										●											●	●
TAU 800 N	5.7			●																		●	
	5.7											●										●	●
TAU 1000 N	6.3			●																		●	
	6.3											●										●	●
TAU 1150 N	6.6				●															●		●	
	6.6												●							●		●	●
TAU 1250 N	6.8				●															●		●	
	6.8												●							●		●	●
TAU 1450 N	7.4								●												●	●	
	7.4														●						●	●	●
TAU 1750 N	8.4								●													●	
	8.4													●								●	●
TAU 2100 N	9.6							●														●	
	9.6															●						●	●
TAU 2600 N	11.5					●																●	
	11.5																●					●	●
TAU 3000 N	11.6						●															●	
	11.6																	●				●	●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Gas burner																										Burner accessory				Burner flange			Control panels	
		Blue flame (Low NOx)																																		
		Modulating																																		
		Mechanical cam									Electronic cam																									
		–																0_2 control				0_2 control + Inverter													
		BS3/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 68/M BLU TC	RS 55/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 68/E BLU	RS 55/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E O2 BLU TC	RS 160/E O2 BLU TL	RS 200/E O2 BLU TL	RS 310/E O2 BLU TC	RS 410/E O2 BLU TL	RS 120/EV O2 BLU TC	RS 160/EV O2 BLU TC	RS 200/EV O2 BLU TL	RS 310/EV O2 BLU TC	RS 410/EV O2 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3897606	3788006	3910510	3910610	3897406	20038484	3899711	20068219	20068270	3897632	3788032	3899810	3910710	3910810	3897432	20038491	20068217	20068279	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178775	20163867	4031069	20013035
TAU 115 N	2.2	●																																			●	●
TAU 150 N	2.0	●																																			●	●
TAU 210 N	2.7				●																																●	●
	2.7														●																						●	●
TAU 270 N	3.2				●																																●	●
	3.2														●																						●	●
TAU 350 N	4.6					●																															●	●
	4.6															●																					●	●
TAU 450 N	5.0							●																											●		●	●
	5.0																	●																	●		●	●
TAU 600 N	5.5						●																												●		●	●
	5.5																●																		●		●	●
TAU 800 N	5.7		●																																●		●	●
	5.7											●																							●		●	●
	5.7																				●									●					●		●	●
	5.7																								●					●	●				●		●	●
TAU 1000 N	6.3		●																																●		●	●
	6.3											●																							●		●	●
	6.3																				●									●							●	●
	6.3																								●					●	●						●	●
TAU 1150 N	6.6			●																															●		●	●
	6.6												●																						●		●	●
	6.6																					●								●					●		●	●
	6.6																										●			●		●			●		●	●
TAU 1250 N	6.8			●																															●		●	●
	6.8												●																						●		●	●
	6.8																					●								●					●		●	●
	6.8																										●			●		●			●		●	●
TAU 1450 N	7.4			●																															●		●	●
	7.4												●																						●		●	●
	7.4																					●								●					●		●	●
	7.4																										●			●		●			●		●	●
TAU 1750 N	8.4								●																												●	●
	8.4													●																							●	●
	8.4																						●							●						●	●	●
	8.4																											●		●			●			●	●	●
TAU 2100 N	9.6									●																											●	●	●
	9.6																		●																		●	●	●
	9.6																							●						●							●	●	●
	9.6																												●	●			●				●	●	●
TAU 2600 N	11.5										●																											●	●
	11.5																			●																		●	●

Description	Back-pressure in combustion chamber (mbar)	Gas burner																										Burner accessory				Burner flange			Control panels	
		Blue flame (Low NOx)																																		
		Modulating																																		
		Mechanical cam										Electronic cam																								
		-																		O_2 control					O_2 control + Inverter										
		BS3/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 68/M BLU TC	RS 55/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 68/E BLU	RS 55/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3897606	3788006	3910510	3910610	3897406	20038484	3899711	20068219	20068270	3897632	3788032	3899810	3910710	3910810	3897432	20038491	20068217	20068279	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178775	20163867	4031069	20013035
TAU 2600 N	11.5																								●					●								●	●
	11.5																												●	●				●				●	●
TAU 3000 N	11.6										●																												●	●
	11.6																			●																			●	●
	11.6																								●						●								●	●
	11.6																												●	●				●				●	●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																					Burner flange		Control panels	
		Yellow flame (Standard)																								
		Two stage										Modulating														
		–										Mechanical cam														
		–																								
		RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS5D	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3789110	3784702	3785102	3785302	3785502	3762016	20068351	20068361	3788410	3785813	3788710	3788810	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361	20178757	20178775	4031069	20013035
TAU 270 N	3.2						●																		●	
	3.2											●													●	●
TAU 350 N	4.6	●																							●	
	4.6												●												●	●
TAU 450 N	5.0		●																						●	
	5.0													●											●	●
TAU 600 N	5.5			●																					●	
	5.5														●										●	●
TAU 800 N	5.7				●																				●	
	5.7															●									●	●
TAU 1000 N	6.3				●																				●	
	6.3															●									●	●
TAU 1150 N	6.6					●																	●		●	
	6.6																●						●		●	●
TAU 1250 N	6.8					●																	●		●	
	6.8																●						●		●	●
TAU 1450 N	7.4										●													●	●	
	7.4																		●					●	●	●
TAU 1750 N	8.4										●														●	
	8.4																	●							●	●
TAU 2100 N	9.6									●															●	
	9.6																			●					●	●
TAU 2600 N	11.5							●																	●	
	11.5																				●				●	●
TAU 3000 N	11.6								●																●	
	11.6																					●			●	●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Gas burner																												Burner accessory				Burner flange				Control panels	
		Blue flame (Low NOx)																																					
		Modulating																																					
		Mechanical cam										Electronic cam																											
		-																		O_2 control						O_2 control + Inverter												
		BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 25/E BLU	RS 35/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3910510	3910610	20038484	3897406	3897606	3788006	3899711	20068219	20068270	3910710	3910810	20038491	3897432	3897632	3788032	3899810	20068261	20068294	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178757	20178775	20163867	4031069	20013035
TAU 115 N	2.2	●																																	●				●	●
TAU 150 N	2.0	●																																	●				●	●
TAU 210 N	2.7		●																																●				●	●
	2.7											●																							●				●	●
TAU 270 N	3.2		●																																●				●	●
	3.2											●																							●				●	●
TAU 350 N	4.6			●																															●				●	●
	4.6												●																							●				●	●
TAU 450 N	5.0				●																														●				●	●
	5.0													●																						●				●	●
TAU 600 N	5.5					●																													●				●	●
	5.5														●																					●				●	●
TAU 800 N	5.7						●																												●				●	●
	5.7															●																				●				●	●
	5.7																				●										●					●				●	●
	5.7																									●					●	●				●				●	●
TAU 1000 N	6.3						●																												●				●	●
	6.3															●																				●				●	●
	6.3																				●										●					●				●	●
	6.3																									●					●	●				●				●	●
TAU 1150 N	6.6							●																														●			●	●
	6.6																●																						●			●	●
	6.6																					●									●								●			●	●
	6.6																										●				●		●						●			●	●
TAU 1250 N	6.8							●																														●			●	●
	6.8																●																						●			●	●
	6.8																					●									●								●			●	●
	6.8																										●				●		●						●			●	●
TAU 1450 N	7.4							●																														●			●	●
	7.4																●																						●			●	●
	7.4																					●									●								●			●	●
	7.4																										●				●		●						●			●	●
TAU 1750 N	8.4								●																																	●	●
	8.4																	●																									●	●
	8.4																						●								●											●	●
	8.4																											●			●			●								●	●
TAU 2100 N	9.6									●																																●	●	●
	9.6																		●																							●	●	●
	9.6																							●							●											●	●	●
	9.6																												●		●			●								●	●	●
TAU 2600 N	11.5										●																																●	●
	11.5																			●																							●	●

Description	Back-pressure in combustion chamber (mbar)	Gas burner																										Burner accessory					Burner flange				Control panels	
		Blue flame (Low NOx)																																			
		Modulating																																			
		Mechanical cam										Electronic cam																									
		-																		O_2 control					O_2 control + Inverter											
		BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 25/E BLU	RS 35/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3910510	3910610	20038484	3897406	3897606	3788006	3899711	20068219	20068270	3910710	3910810	20038491	3897432	3897632	3788032	3899810	20068261	20068294	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178757	20178775	20163867	4031069	20013035
TAU 2600 N	11.5																								●					●									●	●
	11.5																												●	●				●					●	●
TAU 3000 N	11.6										●																												●	●
	11.6																		●																				●	●
	11.6																								●						●								●	●
	11.6																												●	●				●				●	●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Condensing three flue gas passes stainless steel jet burners boilers

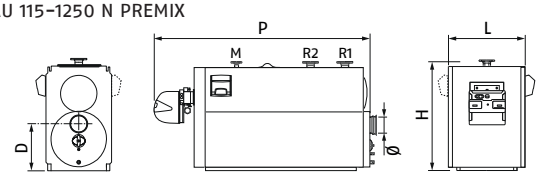
Tau N Premix

Tau N combined with RX premixed gas burners

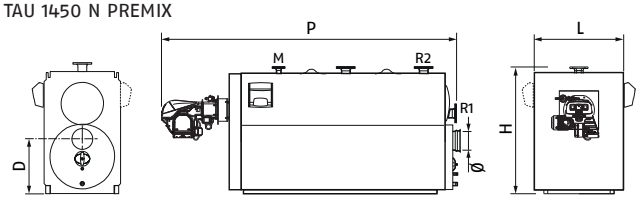
ERP

- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water content
- Low emissions RX premix gas burner
- RIELLOtech Clima Comfort electronic control panel

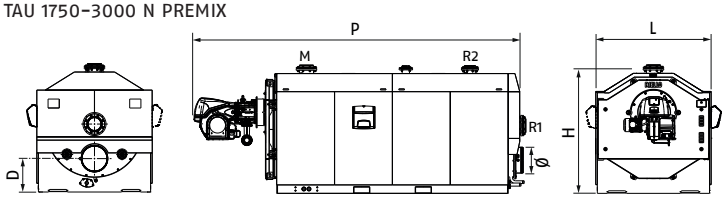
TAU 115-1250 N PREMIX



TAU 1450 N PREMIX



TAU 1750-3000 N PREMIX



Description	H mm	L mm	P mm	D mm	Ø mm	M DN	R1 DN	R2 DN	Net weight kg
TAU 115 N PREMIX	1315	740	1960	505	160	65	65	50	582
TAU 150 N PREMIX	1315	740	1960	505	200	65	65	50	582
TAU 210 N PREMIX	1315	740	1960	505	200	65	65	50	617
TAU 270 N PREMIX	1450	850	2140	545	250	65	65	50	774
TAU 270 N PREMIX LPG	1450	850	2140	545	250	65	65	50	774
TAU 350 N PREMIX	1450	850	2380	545	250	80	80	65	865
TAU 450 N PREMIX	1630	900	2590	645	300	100	100	80	1233
TAU 600 N PREMIX	1630	900	2760	645	300	100	100	80	1426
TAU 800 N PREMIX	1910	1060	3080	680	350	125	125	80	2107
TAU 1000 N PREMIX	1910	1060	3330	680	350	125	125	80	2342
TAU 1150 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1250 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1450 N PREMIX	2180	1225	4060	805	450	150	150	100	3430
TAU 1750 N PREMIX	1945	1750	4800	521	400	200	200	150	4466
TAU 2100 N PREMIX	1945	1750	5200	521	400	200	200	150	4961
TAU 2600 N PREMIX	2128	1850	5610	552	450	200	200	150	5776
TAU 3000 N PREMIX	2170	1950	5820	600	450	200	200	150	6976

M Delivery.
R1 Low temperature return system.
R2 High temperature return system.

TAU N Premix is equipped with modulating burners with total premixing combustion, which guarantee very low emissions in atmosphere and a wide turndown ratio.
The burner is equipped with gas valves with proportional opening with pneumatic control; the gas is dosed in operation of the air introduced to the combustion head which is cylindrical radiating type. The mixing of air with gas takes place inside the burner fan (the fan is variable speed) allowing correct operation too in the presence of low gas supply pressures.
The premixed flame is characterized by a compact geometry, and a low noise level, which translates into a limited sound emission to the chimney, with obvious comfort acoustic advantages.
The modulation of the flame allows to adapt the delivery temperature according to the external temperature in order to optimize the efficiency. The flame ignition is guaranteed by an intermittent pilot flame device.
- Low polluting emissions
- Easy maintenance for total accessibility to internal components avoiding to disassemble the burner
- Equipped with the RIELL0tech Clima Comfort electronic control panel to manage cascades of boilers, complex solar systems, integration of multiple types of heat generators, two mixed zones, one direct and the production of domestic hot water
- Equipped with burner plate for premix burners
- Maximum working pressure: 6 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Notes	Code
	Output useful 80°/60° max	Output useful 40°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (40°/30°)	Useful 30% Pn (30 °C)		
TAU 115 N PREMIX	112.1	123.1	115	97.5	107.0	108.0	(B)(D)	**20120146**
TAU 150 N PREMIX	146.3	159.7	150	97.5	106.5	108.5	(B)(D)	**20031981**
TAU 210 N PREMIX	205.2	223.6	210	97.7	106.5	109.3	(B)(D)	**20031987**
TAU 270 N PREMIX	265.1	290.2	270	98.2	107.5	109.2	(C)(D)	**20105079**
TAU 270 N PREMIX LPG	265.1	290.2	270	98.2	107.5	109.2	(A)(D)	**20105081**
TAU 350 N PREMIX	344.1	375.2	349	98.3	107.5	108.5	(B)(D)	**20105082**
TAU 450 N PREMIX	442.4	481.5	450	98.3	107.0	108.5	(B)(D)	**20105083**
TAU 600 N PREMIX	589.8	642.0	600	98.3	107.0	108.5	(B)(D)	**20105085**
TAU 800 N PREMIX	786.4	860.0	800	98.3	107.0	108.5	(B)(D)(T)	**20105086**
TAU 1000 N PREMIX	983.0	1070.0	1000	98.3	107.0	108.5	(B)(D)(T)	**20105089**
TAU 1150 N PREMIX	1129.3	1230.5	1150	98.3	107.0	108.5	(B)(D)(T)	**20166024**
TAU 1250 N PREMIX	1229.7	1337.5	1250	98.3	107.0	108.5	(B)(D)(T)	**20166025**
TAU 1450 N PREMIX	1425.6	1551.5	1450	98.3	107.0	108.5	(B)(D)(T)	**20166026**
TAU 1750 N PREMIX	1718.5	1881.2	1750	98.3	107.5	108.7	(B)(D)(T)	**20166039**
TAU 2100 N PREMIX	2062.2	2258.7	2100	98.3	107.5	108.7	(B)(D)(T)	**20166027**
TAU 2600 N PREMIX	2553.2	2796.5	2600	98.3	107.5	108.7	(B)(D)(T)	**20166030**
TAU 3000 N PREMIX	2946.0	3226.8	3000	98.3	107.5	108.7	(B)(D)(T)	**20166041**

(A) LPG.
(B) Natural gas-LPG.
(C) Natural gas.
(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
(T) Product not subject to standard transport rates. For transport enhancement contact the 0rder Management 0ffice.
Maximum operating pressure 6 bar.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

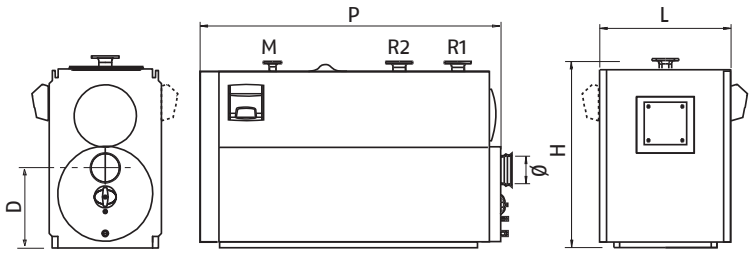
ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit (up to 450 kW)		**4031810**
N3 neutraliser kit (450-1500 kW)		**4031812**
HN2 neutralisation kit (up to 270 kW)	(1)	**4031811**
HN3 neutraliser kit (280-750 kW)	(1)(D)	**4031813**

(1) Equipped with extraction pumps.
(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

Condensing three flue gas passes oil and gas steel boilers

Tau N Oil Pro



ERP

- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with high water content, suitable for the operation with oil and gas jet burners
- Suitable for the operation with oil for heating according to UNI 6579 (sulphur content < 1000 ppm)

Description	H mm	L mm	P mm	D mm	M Ø-DN	R1 low temp. Ø-DN	R2 high temp. Ø-DN	Ø mm	Net weight kg
TAU 115 N OIL PRO	1315	740	1455	505	65	65	50	160	530
TAU 150 N OIL PRO	1315	740	1455	505	65	65	50	200	560
TAU 210 N OIL PRO	1315	740	1455	505	65	65	50	200	580
TAU 270 N OIL PRO	1450	850	1630	545	65	65	50	250	737
TAU 350 N OIL PRO	1450	850	1830	545	80	80	65	250	823
TAU 450 N OIL PRO	1630	900	2035	645	300	100	100	80	1185
TAU 600 N OIL PRO	1630	900	2235	645	300	100	100	80	1370
TAU 800 N OIL PRO	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N OIL PRO	1910	1060	2810	680	350	125	125	80	2245

The boiler has been designed to operate with heating standard oil, with sulphur content < 1000 ppm, thanks to the construction made of stainless steel AISI 316Ti and AISI 904 L. The boiler is based on the principle of heat stratification: in the upper part there is high temperature water, while in the lower part, where condensing take place, remains a large quantity of cold water in order to ensure the condensation.
The generator structure has been studied to contain thermal expansion.
Particular care was given to ensure thermal insulation of the boiler body, casing and door by using high-density mineral wool and ceramic fibre. The control panel should be ordered separately.

- Low polluting emissions
- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with Riellotech control panels
- Built-in condensate drain
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Power - kW			Efficiency - %			Back pressure in the chamber mbar	Notes	Code
	Output useful 80°/60° max	Output useful 40°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (40°/30°)	Useful 30% Pn (30 °C)			
TAU 115 N OIL PRO	112.2	120.6	115	97.6	104.9	104.8	2.2	(D)	**20124420**
TAU 150 N OIL PRO	146.4	157.4	150	97.6	104.8	104.7	2.0	(D)	**20124421**
TAU 210 N OIL PRO	205.2	220.1	210	97.7	104.7	104.6	2.7	(1)(D)	**20124423**
TAU 270 N OIL PRO	264.3	282.7	270	97.9	104.5	104.4	3.2	(1)(D)	**20124424**
TAU 350 N OIL PRO	343.7	365.8	350	98.2	104.5	104.1	4.6	(1)(D)	**20124425**
TAU 450 N OIL PRO	441.9	470.3	450	98.2	104.5	104.1	5.0	(1)(D)	**20180060**
TAU 600 N OIL PRO	589.2	627.0	600	98.2	104.5	104.1	5.5	(1)(D)	**20180061**
TAU 800 N OIL PRO	785.6	836.0	800	98.2	104.5	104.1	5.7	(1)(D)	**20164743**
TAU 1000 N OIL PRO	982.0	1045.0	1000	98.2	104.5	104.1	6.3	(1)(D)	**20164757**

(1) The product can benefit from tax deductions for energy redevelopment if combined with a Modulating type burner (see recommended combinations table).
(D) Availability of the material at our warehouse: 30 working days from the order receipt date.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Neutralizer kit DN0 2 (up to 300 kW)		**20182661**
Neutralizer kit DN0 3 (up to 1000 kW)		**20182663**
Neutralizer kit HN0 1.6 (up to 200 kW)	(1)	**20182664**
Neutralizer kit HN0 3 (up to 1000 kW)	(1)(2)(D)	**20182665**
MECHANICAL ACCESSORIES		
Burner flange		**4031196**

(1) Equipped with extraction pumps.
(2) Contact pre-sales service.
(3) On request.
(D) Availability of the material at our warehouse: 30 working days from the order receipt date.

CONTROL PANELS

Description	Installation	Boiler model	Code
RIELL0tech CLIMA COMFORT	Vertical	TAU N 115-350 OIL	**4031069**

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS

For combination with GAS BURNER use correspondence tables provided for similar models of the TAU N range on page 330.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner							Dual fuel burner	Burner flange	Control panels		Panel board accessory
		Yellow flame (Standard)	Blue flame (Low NOx)										
		Modulating	Two stage			Modulating							
		Mechanical cam	-			Mechanical cam							
		RL 100/M TL	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 120/M MX TL	Burner flange	Riellotech Clima Comfort	Riello 5000 CL-M	3-point modulation kit
		20166484	20015696	20027479	20027481	20027567	20169338	20169330	20147788	4031196	4031069	20020036	20013035
TAU 115 N OIL PRO	2.2		●								●	●	
TAU 150 N OIL PRO	2.0		●								●	●	
TAU 210 N OIL PRO	2.7			●							●	●	
TAU 270 N OIL PRO	3.2				●						●	●	
TAU 350 N OIL PRO	4.6					●					●	●	
TAU 450 N OIL PRO	5.0					●					●	●	
TAU 450 N OIL PRO	5.0						●			●	●		●
TAU 600 N OIL PRO	5.5						●				●		●
TAU 800 N OIL PRO	5.7							●		●	●		●
TAU 800 N OIL PRO	5.7								●	●	●	●	
TAU 1000 N OIL PRO	6.3	●									●		●
TAU 1000 N OIL PRO	6.3								●	●	●	●	

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

STEEL JET BURNER BOILERS GAS/OIL

THREE FLUE GAS PASSES

RTS 3S

RTS 3S 90 (85,1 kW)*
RTS 3S 115 (108,3 kW)*
RTS 3S 166 (157,4 kW)*
RTS 3S 217 (207,5 kW)*
RTS 3S 255 (244,0 kW)*
RTS 3S 349 (334,7 kW)*

RTS 3S 448 (427,8 kW)
RTS 3S 511 (488,0 kW)
RTS 3S 639 (610,2 kW)
RTS 3S 850 (811,8 kW)
RTS 3S 1160 (1107,8 kW)
RTS 3S 1450 (1384,8 kW)

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RTS 2S

RTS 115 2S (125 kW)
RTS 150 2S (163 kW)
RTS 200 2S (216 kW)
RTS 247 2S (264 kW)
RTS 319 2S (341 kW)

RTS 410 2S (439 kW)
RTS 526 2S (563 kW)
RTS 736 2S (787 kW)
RTS 850 2S (909 kW)
RTS 1012 2S (1082 kW)
RTS 1200 2S (1283 kW)
RTS 1355 2S (1449 kW)
RTS 1500 2S (1609 kW)
RTS 1850 2S (1980 kW)

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RTG

RTG 1000 (1165 kW)
RTG 1200 (1410 kW)
RTG 1500 (1760 kW)
RTG 1800 (2040 kW)
RTG 2100 (2510 kW)
RTG 2600 (3020 kW)
RTG 3000 (3520 kW)
RTG 3500 (4090 kW)
RTG 4000 (4680 kW)
RTG 4300 (5030 kW)
RTG 5000 (5830 kW)
RTG 6000 (7020 kW)
RTG 7500 (8760 kW)
RTG 9000 (10560 kW)

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RTQ TK

RTQ 4000 TK
RTQ 4500 TK
RTQ 5000 TK
RTQ 6000 TK
RTQ 7000 TK
RTQ 8000 TK
RTQ 9000 TK
RTQ 10000 TK
RTQ 11000 TK
RTQ 12000 TK
RTQ 14000 TK
RTQ 16000 TK
RTQ 18000 TK
RTQ 20000 TK

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RTQ T

RTQ 3000 T
RTQ 3500 T
RTQ 4000 T
RTQ 5000 T
RTQ 6000 T
RTQ 7000 T
RTQ 8000 T
RTQ 9000 T
RTQ 10000 T
RTQ 11000 T
RTQ 12000 T
RTQ 14000 T
RTQ 16000 T
RTQ 18000 T

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REVERSE FLAME

RTQ 3S

RTQ 91 3S (87,1 kW)
RTQ 115 3S (109,7 kW)
RTQ 166 3S (158,7 kW)
RTQ 217 3S (206,8 kW)
RTQ 255 3S (243,3 kW)
RTQ 318 3S (303,4 kW)
RTQ 349 3S (332,0 kW)

RTQ 448 3S (427,4 kW)
RTQ 511 3S (487,5 kW)
RTQ 575 3S (548,6 kW)
RTQ 639 3S (609,6 kW)
RTQ 766 3S (730,8 kW)
RTQ 896 3S (854,8 kW)
RTQ 1100 3S (1049,4 kW)
RTQ 1300 3S (1240,2 kW)
RTQ 1600 3S (1526,4 kW)
RTQ 2100 3S (2003,4 kW)
RTQ 2400 3S (2289,6 kW)
RTQ 3000 3S (2860,0 kW)
RTQ 3500 3S (3339 kW)
RTQ 4000 3S (3816 kW)

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RTQ 2S

RTQ 50 2S (50,0 kW)
RTQ 64 2S (64,0 kW)
RTQ 82 2S (82,0 kW)
RTQ 105 2S (105,0 kW)
RTQ 154 2S (154,4 kW)
RTQ 203 2S (202,7 kW)
RTQ 235 2S (235,3 kW)
RTQ 297 2S (297,0 kW)
RTQ 323 2S (322,9 kW)
RTQ 357 2S (356,7 kW)

RTQ 418 2S (418,0 kW)
RTQ 467 2S (467,0 kW)
RTQ 537 2S (537,1 kW)
RTQ 597 2S (596,8 kW)
RTQ 715 2S (715,4 kW)
RTQ 837 2S (836,9 kW)
RTQ 920 2S (920 kW)
RTQ 1020 2S (1020 kW)
RTQ 1250 2S (1250 kW)
RTQ 1500 2S (1500 kW)
RTQ 1700 2S (1700 kW)
RTQ 2020 2S (2020 kW)
RTQ 2320 2S (2320 kW)
RTQ 2620 2S (2620kW)
RTQ 2920 2S (2920 kW)
RTQ 3200 2S (3200 kW)
RTQ 3500 2S (3500 kW)
RTQ 4000 2S (4000 kW)
RTQ 4500 2S (4500 kW)
RTQ 5000 2S (5000 kW)

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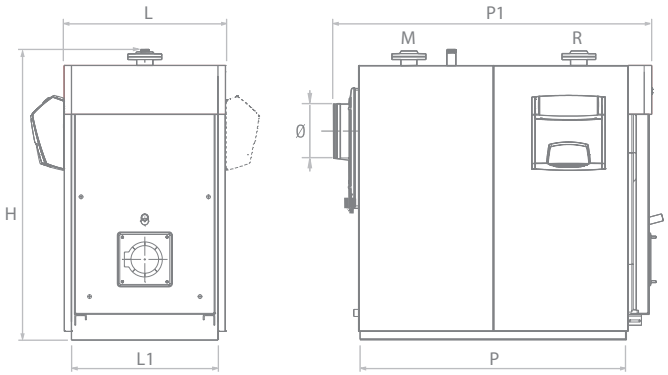
* Products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil.
NOTE: products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

Three flue gas passes steel jet burner boilers

RTS 3S

ERP
LIGHT OIL

Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013). Gas products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of EU Regulation N. 813/2013.



- Oil products are in conformity with Directive 2009/125/EC
- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Description	H mm	L mm	P mm	L1 mm	P1 mm	M Ø	R Ø	Ø mm	Net weight kg
RTS 90 3S	1205	660	860	580	1155	2"	2"	180	335
RTS 115 3S	1285	710	1010	640	1330	2"	2"	200	450
RTS 166 3S	1390	760	1180	690	1500	2" ½	2" ½	250	515
RTS 217 3S	1390	760	1180	690	1500	2" ½	2" ½	250	535
RTS 255 3S	1524	820	1296	750	1660	2" ½	2" ½	250	715
RTS 349 3S	1490	820	1596	750	1960	DN80	DN80	250	840
RTS 448 3S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 511 3S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 639 3S	1820	1000	1965	900	2375	DN100	DN100	350	1500
RTS 850 3S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1160 3S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1450 3S	2222	1237	2754	1160	3173	DN150	DN150	450	3390

Its vertical design and reduced width (narrow range) allows an easy installation even in tiny plant rooms. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses. The door features an ambidextrous opening and is provided with a peephole with pressure intake. Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance.
The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Notes	Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)		
RTS 90 3S	85.1	90	94.5	98.5	(1)(2)	**20042418**
RTS 115 3S	108.3	115	94.2	98.5	(1)(2)	**20031973**
RTS 166 3S	157.4	166	94.8	98.5	(1)(2)	**20031974**
RTS 217 3S	207.5	217	95.6	98.5	(1)(2)	**20031976**
RTS 255 3S	244.0	255	95.7	98.5	(1)(2)	**20031977**
RTS 349 3S	334.7	349	95.9	98.5	(1)(2)	**20031978**
RTS 448 3S	427.8	448	95.5	98.5	(3)	**20031979**
RTS 511 3S	488.0	511	95.5	98.5	(3)	**20031980**
RTS 639 3S	610.2	639	95.5	98.5	(3)	**20042417**
RTS 850 3S	811.8	850	95.5	98.5	(3)	**20044152**
RTS 1160 3S	1107.8	1160	95.5	98.5	(3)	**20047381**
RTS 1450 3S	1384.8	1450	95.5	98.5	(3)	**20047391**

Maximum operating pressure 5 bar for 90 model.
Maximum operating pressure 6 bar for the other models.
Minimum temperature of water return (to the boiler): 50 °C.
(1) Gas products only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.
(2) Oil product are in conformity with ErP Directive (EU Regulation Nr. 813/2013)
(3) For orders please contact Sales Department.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	**20199147**
Burner flange	**4031188**
Burner flange	**4031196**
Burner flange	**4031197**
Burner flange	**4031198**
Burner flange	**20043900**
Burner flange	**20047680**

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	**4031069**	**All models**
RIELLOtech PRIME	Vertical	**20010820**	**All models**
RIELLOtech PRIME ACS	Vertical	**20010437**	**All models**

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech PRIME.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																						Burner flange				Control panels			
		Yellow flame (Standard)										Blue flame (Low NOx)																			
		Two stage					Modulating																								
		–					Mechanical cam									Electronic cam															
		–					–													O_2 control		O_2 control +Inverter									
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E O2 BLU TC	RS 160/E O2 BLU TL	RS 120/EV O2 BLU TC	RS 160/EV O2 BLU TC	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638	20038484	3897406	3897606	3788006	20038491	3897432	3897632	3788032	20165996	20164535	20154943	20158956	4031197	20043900	20047680	4031196	20010820	4031069	4031067	20013035
RTS 448 3S	2.9	●																										●		●	
	2.9						●																						●		●
	2.9											●															●		●		●
	2.9															●											●		●		●
RTS 511 3S	5.4	●																										●		●	
	5.4						●																						●		●
	5.4											●															●		●		●
	5.4															●											●		●		●
RTS 639 3S	5.2		●																									●		●	
	5.2							●																					●		●
	5.2												●														●		●		●
	5.2																●							●					●		●
RTS 850 3S	6.7			●																								●		●	
	6.7								●																				●		●
	6.7													●															●		●
	6.7																	●											●		●
	6.7																			●									●		●
	6.7																					●							●		●
RTS 1160 3S	3.9				●																				●			●		●	
	3.9									●															●				●		●
	3.9													●															●		●
	3.9																	●											●		●
	3.9																			●									●		●
	3.9																					●							●		●
RTS 1450 3S	4.6					●																						●		●	
	4.6										●																		●		●
	4.6														●														●		●
	4.6																		●										●		●
	4.6																				●								●		●
	4.6																						●						●		●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner																Dual fuel burner			Burner accessory		Burner flange					Control panels			
		Yellow flame (Standard)								Blue flame (Low NOx)																					
		Two stage				Modulating				Two stage					Modulating																
		-				Mechanical cam				-					Mechanical cam																
		RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	Kit modulation RWF 50.2	Kit modulation RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3474632	3475032	3475232	3475432	20166502	20166463	20166481	20166486	20015693	20015696	20027479	20027481	20027567	20169338	20169330	20147784	20147786	20147789	20082208	20099869	20043900	4031188	20199147	4031196	4031198	20010820	4031069	4031067	20013035
RTS 90 3S	1.0									●																	●		●	
RTS 115 3S	1.4										●																●		●	
RTS 166 3S	1.8											●														●	●		●	
RTS 217 3S	2.7											●														●	●		●	
RTS 255 3S	2.9												●														●		●	
RTS 349 3S	3.6													●										●			●		●	
RTS 448 3S	2.9	●																									●		●	
	2.9					●																						●		●
	2.9													●									●				●		●	
	2.9														●										●			●		●
	2.9																●			●							●		●	
RTS 511 3S	5.4	●																									●		●	
	5.4					●																						●		●
	5.4														●										●			●		●
	5.4																●			●							●		●	
RTS 639 3S	5.2		●																								●		●	
	5.2						●																					●		●
	5.2														●										●			●		●
	5.2																●			●							●		●	
RTS 850 3S	6.7			●																							●		●	
	6.7							●																				●		●
	6.7															●									●			●		●
	6.7																	●		●							●		●	
RTS 1160 3S	3.9				●																	●					●		●	
	3.9							●																				●		●
	3.9																		●		●						●		●	
RTS 1450 3S	4.6				●																	●					●		●	
	4.6								●													●						●		●
	4.6																		●		●						●		●	

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner														Burner flange		Control panels			
		Yellow flame (Standard)																			
		Two stage							Modulating												
		–							Mechanical cam												
		–							–												
		RS 34 MZ TC	RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3789010	3789110	3784702	3785102	3785302	3785502	20044636	3788710	3788810	3781622	3789610	3789710	3789810	20044638	20043900	4031197	20010820	4031069	4031067	20013035
RTS 166 3S	1.8	●																●		●	
	1.8								●										●		●
RTS 217 3S	2.7	●																●		●	
	2.7								●										●		●
RTS 255 3S	2.9	●																●		●	
	2.9								●										●		●
RTS 349 3S	3.6		●															●		●	
	3.6									●									●		●
RTS 448 3S	2.9			●														●		●	
	2.9										●								●		●
RTS 511 3S	5.4			●														●		●	
	5.4										●								●		●
RTS 639 3S	5.2				●													●		●	
	5.2											●							●		●
RTS 850 3S	6.7					●											●	●		●	
	6.7												●						●		●
RTS 1160 3S	3.9						●									●		●		●	
	3.9													●		●			●		●
RTS 1450 3S	4.6							●										●		●	
	4.6														●				●		●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Gas burner																				Burner flange					Control panels			
		Blue flame (Low NOx)																												
		Monostadio	Bistadio	Modulating																										
		-	-	Mechanical cam							Electronic cam																			
		-																O_2 control		O_2 control +Inverter										
		BS3	BS3D	BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3761316	3761716	3762350	3910510	3910610	20038484	3897406	3897606	3788006	3910710	3910810	3897332	20038491	3897432	3897632	3788032	20165996	20164535	20154943	20158956	20043900	20047680	4031196	4031198	4031197	20010820	4031069	4031067	20013035
RTS 90 3S	1.0	●																									●			
	1.0		●																								●		●	
	1.0			●																								●		●
RTS 115 3S	1.4	●																									●			
	1.4		●																								●		●	
	1.4			●																								●		●
RTS 166 3S	1.8	●																									●			
	1.8		●																								●		●	
	1.8			●																								●		●
RTS 217 3S	2.7				●																				●			●		●
	2.7										●														●			●		●
RTS 255 3S	2.9				●																							●		●
	2.9											●																●		●
RTS 349 3S	3.6					●																						●		●
	3.6											●																●		●
RTS 448 3S	2.9						●																	●				●		●
	2.9												●															●		●
RTS 511 3S	5.4						●																	●				●		●
	5.4													●										●				●		●
RTS 639 3S	5.2							●																●				●		●
RTS 850 3S	6.7								●																			●		●
	6.7														●													●		●
	6.7																	●										●		●
	6.7																			●								●		●
RTS 1160 3S	3.9								●																			●		●
	3.9															●												●		●
	3.9																	●										●		●
	3.9																			●								●		●
RTS 1450 3S	4.6									●													●					●		●
	4.6															●												●		●
	4.6																		●									●		●
	4.6																				●							●		●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner																				Burner accessory		Burner flange				Control panels			
		Yellow flame (Standard)													Blue flame (Low NOx)																
		Two stage								Modulating					Two stage					Modulating											
		-								Mechanical cam					-					Mechanical cam											
		RG3D	RG4D	RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC	RL 28/M TC	RL 38/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	Kit modulation RWF 50.2	Kit modulation RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3739450	3739750	3474632	3475032	3475232	3475432	3470210	3470310	20166502	20166463	20166481	20166486	20166492	20166497	20015693	20015696	20027479	20027481	20027567	20169338	20169330	20082208	20099869	20043900	4031188	4031196	4031198	20010820	4031069	4031067	20013035
RTS 90 3S	1.0	●																											●		●	
	1.0														●														●		●	
RTS 115 3S	1.4	●																											●		●	
	1.4																●												●		●	
RTS 166 3S	1.8		●																										●		●	
	1.8																	●										●	●		●	
RTS 217 3S	2.7							●																				●	●		●	
	2.7													●														●		●		●
	2.7																	●										●	●		●	
RTS 255 3S	2.9							●																					●		●	
	2.9													●																●		●
	2.9																		●										●		●	
RTS 349 3S	3.6								●																				●		●	
	3.6														●															●		●
	3.6																			●						●			●		●	
RTS 448 3S	2.9			●																									●		●	
	2.9									●																				●		●
	2.9																			●						●			●		●	
	2.9																				●						●			●		●
	2.9																						●						●		●	
RTS 511 3S	5.4			●																									●		●	
	5.4									●																				●		●
	5.4																				●						●			●		●
	5.4																						●						●		●	
RTS 639 3S	5.2				●																								●		●	
	5.2										●																			●		●
	5.2																				●						●			●		●
	5.2																						●						●		●	
RTS 850 3S	6.7					●																							●		●	
	6.7											●																		●		●
	6.7																					●					●			●		●
	6.7																						●						●		●	
RTS 1160 3S	3.9						●																		●				●		●	
	3.9											●																		●		●
	3.9																							●					●		●	
RTS 1450 3S	4.6						●																		●				●		●	
	4.6												●												●					●		●

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

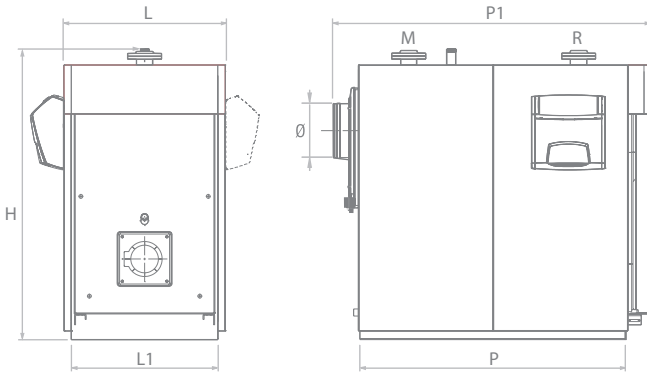
Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner									Burner accessory		Burner flange					Control panels			
		Yellow flame (Standard)					Blue flame (Low N0x)														
		Two stage					Modulating														
		-					Mechanical cam														
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 190/M MZ	Kit modulation RWF 50.2	Kit modulation RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		20147897	20147803	20147805	20147798	20147799	20147784	20147786	20147789	20159361	20082208	20099869	20043900	20047680	4031188	4031196	4031198	20010820	4031069	4031067	20013035
RTS 166 3S	1.8	●															●	●		●	
RTS 217 3S	2.7	●															●	●		●	
RTS 255 3S	2.9	●																●		●	
RTS 349 3S	3.6		●															●		●	
RTS 448 3S	2.9			●														●		●	
	2.9						●				●							●		●	
RTS 511 3S	5.4				●													●		●	
	5.4						●				●							●		●	
RTS 639 3S	5.2				●													●		●	
	5.2						●				●							●		●	
RTS 850 3S	6.7					●												●		●	
	6.7							●			●							●		●	
RTS 1160 3S	3.9									●	●			●				●		●	
	3.9								●			●						●		●	
RTS 1450 3S	4.6									●	●			●				●		●	
	4.6								●			●						●		●	

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Three flue gas passes steel jet burner boilers

RTS 2S

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.



- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners
- The particular geometry of the heat exchange allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of N0x for low polluting emissions

Description	H mm	L mm	P mm	L1 mm	P1 mm	M DN	R DN	Ø DN	Net weight kg
RTS 115 2S	1205	660	860	580	1155	2"	2"	180	335
RTS 150 2S	1285	710	1010	640	1330	2"	2"	200	450
RTS 200 2S	1390	760	1180	690	1500	2" ½	2"½	250	515
RTS 247 2S	1390	760	1180	690	1500	2" ½	2"½	250	535
RTS 319 2S	1524	820	1296	750	1660	2" ½	2"½	250	715
RTS 410 2S	1490	820	1596	750	1960	DN80	DN80	250	840
RTS 526 2S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 736 2S	1830	1000	1965	900	2375	DN100	DN100	350	1500
RTS 850 2S	1830	1000	1965	900	2375	DN100	DN100	350	1500
RTS 1012 2S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1200 2S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1355 2S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1500 2S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1850 2S	2222	1237	2754	1160	3173	DN150	DN150	450	3390

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and three passes flue path. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses.
The door features an ambidextrous opening and is provided with a peephole with pressure intake.
Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance.
The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELL0tech control panels
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Notes	Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)		
RTS 115 2S	115	125	92.2	97.2		**20150418**
RTS 150 2S	150	163	92.2	97.2		**20150304**
RTS 200 2S	200	216	92.7	97.2		**20150305**
RTS 247 2S	247	264	93.5	97.2		**20150410**
RTS 319 2S	319	341	93.5	97.2		**20150412**
RTS 410 2S	410	439	93.5	97.2		**20150416**
RTS 526 2S	526	563	93.5	97.2		**20150417**
RTS 736 2S	736	787	93.5	97.2		**20150419**
RTS 850 2S	850	909	93.5	97.2	(1)	**20150434**
RTS 1012 2S	1012	1082	93.5	97.2	(1)	**20150420**
RTS 1200 2S	1200	1283	93.5	97.2	(1)	**20150435**
RTS 1355 2S	1355	1449	93.5	97.2	(1)	**20150432**
RTS 1500 2S	1500	1609	93.2	97.2	(1)	**20150437**
RTS 1850 2S	1850	1980	93.5	97.2	(1)	**20150433**

Maximum operating pressure: 6 bar.
(1) For orders please contact Sales Department.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	**4031188**
Burner flange	**4031196**
Burner flange	**4031395**
Burner flange	**20043900**
Burner flange	**20047680**
Burner flange	**20065920**
Burner flange	**4031186**
Burner flange	**4031192**
Burner flange	**4031198**
Burner flange	**20043899**
Burner flange	**20184817**

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	**4031069**	**All models**
RIELLOtech PRIME	Vertical	**20010820**	**All models**
RIELLOtech PRIME ACS	Vertical	**20010437**	**All models**

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech Prime.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																						Burner flange						Control panels			
		Yellow flame (Standard)												Blue flame (Low NOx)																				
		One stage	Two stage					Modulating																										
		-	-					Mechanical cam									Electronic cam																		
		RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3788610	3785302	3785502	3785813	3789110	3784702	3789710	3789810	3787623	3788810	3781622	3897606	3788006	3899710	3897306	3897406	3897632	3788032	3899810	3897332	3897432	20043900	20047680	20065920	4031188	4031196	4031395	20010820	4031069	4031067	20013035
RTS 410 2S	3.70	●																										●	●				
	3.70					●																						●	●		●		
	3.70										●																	●		●		●	
	3.70															●												●		●		●	
	3.70																				●							●		●		●	
RTS 526 2S	2.20						●																					●	●		●		
	2.20											●																●		●		●	
	2.20																●										●			●		●	
	2.20																					●					●			●		●	
RTS 739 2S	4.80		●																							●			●		●		
	4.80							●																		●				●		●	
	4.80												●														●			●		●	
	4.80																	●									●			●		●	
RTS 850 2S	6.80		●																							●			●		●		
	6.80							●																		●				●		●	
	6.80												●														●			●		●	
	6.80																	●									●			●		●	
RTS 1012 2S	6.10		●																				●						●		●		
	6.10								●														●							●		●	
	6.10												●										●							●		●	
	6.10																	●					●							●		●	
RTS 1200 2S	9.80			●																			●						●		●		
	9.80								●														●							●		●	
	9.80													●											●						●		●	
	9.80																		●						●						●		●	
RTS 1355 2S	5.10				●																				●				●		●		
	5.10									●															●						●		●	
	5.10													●											●						●		●	
	5.10																		●						●						●		●	
RTS 1500 2S	7.00				●																				●				●		●		
	7.00									●															●						●		●	
	7.00													●											●						●		●	
	7.00																		●						●						●		●	
RTS 1850 2S	7.20				●																			●					●		●		
	7.20									●															●						●		●	
	7.20														●										●						●		●	
	7.20																			●					●						●		●	

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner												Dual Fuel burner									Burner accessory	Burner flange						Control panels			
		Yellow flame (Standard)								Blue flame (Low N0x)				Yellow flame (Standard)			Blue flame (Low N0x)																
		Two stage				Modulating				Two stage	Modulating			Two stage			Modulating																
		-				Mechanical cam				-	Mechanical cam			-			Mechanical cam																
		RL 50 TC	RL 100 TC	RL 130 TC	RL 190 TC	RL 38/M TC	RL 50/M TC	RL 100/M TC	RL 130/M TC	RL 190/M TC	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 310/M MX	Kit modulation RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3474632	3475232	3475432	3475613	20166497	20166502	20166481	20166486	20166490	20027567	20169338	20169330	20147805	20147798	20147799	20159361	20145372	20147784	20147786	20147789	20147806	20082208	20043900	20047680	20065920	4031188	4031196	4031395	20010820	4031069	4031067	20013035
RTS 410 2S	3.70	●																											●	●		●	
	3.70					●																							●		●		●
	3.70										●																●			●		●	
	3.70													●															●	●		●	
	3.70																		●				●							●		●	
RTS 526 2S	2.20	●																											●	●		●	
	2.20						●																						●		●		●
	2.20											●																●			●		●
	2.20														●												●			●		●	
	2.20																		●				●							●		●	
RTS 739 2S	4.80		●																								●			●		●	
	4.80							●																			●				●		●
	4.80												●															●			●		●
	4.80														●												●			●		●	
	4.80																		●				●							●		●	
RTS 850 2S	6.80		●																								●			●		●	
	6.80							●																			●				●		●
	6.80															●												●			●		
	6.80																			●			●							●		●	
RTS 1012 2S	6.10		●																				●							●		●	
	6.10							●																●							●		●
	6.10															●								●							●		●	
	6.10																			●			●							●		●	
RTS 1200 2S	9.80			●																				●							●		●	
	9.80								●															●								●		●
	9.80																●						●			●				●		●	
	9.80																				●		●							●		●	
RTS 1355 2S	5.10			●																				●							●		●	
	5.10								●															●								●		●
	5.10																●						●			●				●		●	
	5.10																				●		●							●		●	
RTS 1500 2S	7.00				●																					●				●		●	
	7.00									●																●					●		●
	7.00																●						●			●				●		●	
	7.00																				●		●							●		●	
RTS 1850 2S	7.20				●																				●					●		●	
	7.20									●															●						●		●
	7.20																	●					●		●					●		●	
	7.20																					●	●							●		●	

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner														Burner flange								Control panels			
		Yellow flame (Standard)																									
		One stage		Two stage						Modulating																	
		–		–						Mechanical cam																	
		RS 34/1 MZ TC	RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS5D	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3788510	3788610	3785302	3785502	3785813	3789110	3784702	3762016	3789710	3789810	3787623	3788710	3788810	3781622	20043900	20047680	20065920	4031186	4031188	4031192	4031198	4031395	20010820	4031069	4031067	20013035
RTS 247 2S	3.00	●																				●		●			
	3.00								●										●					●		●	
	3.00												●									●			●		●
RTS 319 2S	2.40	●																			●			●			
	2.40						●														●			●		●	
	2.40												●									●			●		●
RTS 410 2S	3.70		●																				●	●			
	3.70						●																●	●		●	
	3.70													●									●		●		●
RTS 526 2S	2.20							●															●	●		●	
	2.20														●								●		●		●
RTS 739 2S	4.80			●																●				●		●	
	4.80									●										●					●		●
RTS 850 2S	6.80			●																●				●		●	
	6.80									●										●					●		●
RTS 1012 2S	6.10			●												●								●		●	
	6.10										●					●									●		●
RTS 1200 2S	9.80				●											●								●		●	
	9.80										●					●									●		●
RTS 1355 2S	5.10					●												●						●		●	
	5.10											●						●							●		●
RTS 1500 2S	7.00					●												●						●		●	
	7.00											●						●							●		●
RTS 1850 2S	7.20					●											●							●		●	
	7.20											●					●								●		●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Gas burner																								Burner flange										Control panels				
		Blue flame (Low NOx)																																						
		One stage		Two stage		Modulating																																			
		–		–		Mechanical cam										Electronic cam																									
		BS3	BS4	BS3D	BS4D	BS3/M	BS4/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit	
		3761316	3761416	3761716	3761816	3762350	3762450	3897606	3788006	3899710	3910510	3910610	3897306	3897406	3897632	3788032	3899810	3910710	3910810	3897332	3897432	20043899	20043900	20047680	20065920	4031186	4031192	4031196	4031198	4031395	20184817	20010820	4031069	4031067	20013035	
RTS 115 2S	1.20	●																				●										●				
	1.20			●																		●										●		●		
	1.20					●																●											●			●
RTS 150 2S	1.60	●																												●	●				
	1.60			●																										●	●		●		
	1.60						●																			●							●		●
RTS 200 2S	1.80		●																							●					●				
	1.80				●																					●						●		●		
	1.80										●																		●				●		●
	1.80																	●											●				●		●
RTS 247 2S	3.00										●																		●				●		●
	3.00																	●											●				●		●
RTS 319 2S	2.40											●																					●		●
	2.40																		●										●				●		●
RTS 410 2S	3.70												●																	●			●		●
	3.70																			●										●			●		●
RTS 526 2S	2.20													●														●					●		●
	2.20																				●							●					●		●
RTS 739 2S	4.80							●																				●					●		●
	4.80														●													●					●		●
RTS 850 2S	6.80							●																				●					●		●
	6.80														●													●					●		●
RTS 1012 2S	6.10							●															●										●		●
	6.10														●								●										●		●
RTS 1200 2S	9.80								●																●								●		●
	9.80															●									●								●		●
RTS 1355 2S	5.10								●																●								●		●
	5.10															●									●								●		●
RTS 1500 2S	7.00								●																●								●		●
	7.00															●									●								●		●
RTS 1850 2S	7.20									●														●									●		●
	7.20																●							●									●		●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner																										Burner flange										Control panels			
		Yellow flame (Standard)																	Blue flame (Low NOx)																					
		One stage				Two stage									Modulating						Two stage				Modulating															
		–				–									Mechanical cam						–				Mechanical cam															
		RG3	RG4S	RG5S	RL 34/1 MZ TC	RG3D	RG4D	RG5D	RL 100 TC	RL 130 TC	RL 190 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50 TC	RL 64 MZ TC	RL 100/M TC	RL 130/M TC	RL 190/M TC	RL 28/M TC	RL 38/M TC	RL 50/M TC	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3739300	3739650	3739950	3470110	3739450	3739750	3739850	3475232	3475432	3475613	3470210	3470310	3474632	3470410	20166481	20166486	20166490	20166492	20166497	20166502	20015696	20027479	20027481	20027567	20169338	20169330	20043899	20043900	20047680	20065920	4031186	4031188	4031192	4031196	4031198	4031395	20184817	20010820	4031069	4031067	20013035
RTS 115 2S	1.20	●																										●											●			
	1.20					●																						●											●		●	
	1.20																					●						●											●		●	
RTS 150 2S	1.60		●																																			●	●		
	1.60						●																															●	●	●	
	1.60																						●													●			●	●	
RTS 200 2S	1.80			●																											●								●		
	1.80							●																							●								●	●	
	1.80																		●																				●		●
	1.80																						●													●			●	●	
RTS 247 2S	3.00				●																															●			●		
	3.00											●																								●			●		
	3.00																		●																	●				●	●
	3.00																							●												●			●		
RTS 319 2S	2.40												●																				●						●		
	2.40																		●														●						●		●
	2.40																							●									●						●		
RTS 410 2S	3.70														●																								●		
	3.70																			●																	●			●
	3.70																								●								●						●		
RTS 526 2S	2.20													●																								●		
	2.20																				●																	●		●
	2.20																									●									●				●		●
RTS 739 2S	4.80								●																							●						●		
	4.80															●																	●						●		●
	4.80																										●							●					●		●
RTS 850 2S	6.80								●																							●						●		
	6.80															●																	●						●		●
RTS 1012 2S	6.10								●																			●											●		
	6.10															●												●												●		●
RTS 1200 2S	9.80									●																		●											●		
	9.80																●											●												●		●
RTS 1355 2S	5.10									●																		●											●		
	5.10																●											●												●		●
RTS 1500 2S	7.00										●																			●								●		
	7.00																	●												●									●		●
RTS 1850 2S	7.20										●																				●								●		
	7.20																	●													●								●		●

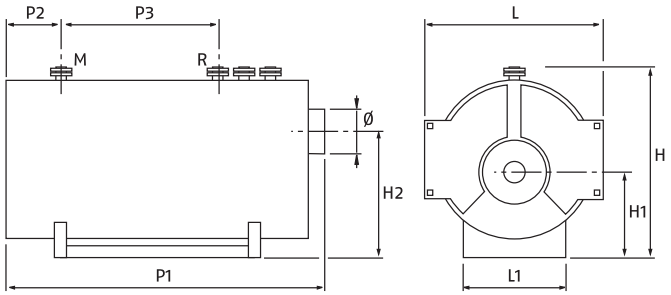
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner											Burner accessory	Burner flange								Control panels	
		Yellow flame (Standard)							Blue flame (Low N0x)														
		Two stage					Modulating		Modulating														
		-					Mechanical cam		Mechanical cam														
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 310/M MX	Kit modulation RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Two stage burner management kit
		20147897	20147803	20147805	20147798	20147799	20159361	20145372	20147784	20147786	20147789	20147806	20082208	20043900	20047680	20065920	4031188	4031192	4031196	4031198	4031395	20010820	4031067
RTS 150 2S	1.60	●																		●		●	●
	1.60	●																		●		●	●
RTS 200 2S	1.80	●																		●		●	●
	1.80		●															●				●	●
RTS 247 2S	3.00			●																	●	●	●
	3.00								●				●									●	●
RTS 319 2S	2.40				●												●					●	●
	2.40								●				●									●	●
RTS 410 2S	3.70				●												●					●	●
	3.70								●				●									●	●
RTS 526 2S	2.20					●													●			●	●
	2.20									●			●									●	●
RTS 739 2S	4.80					●								●								●	●
	4.80									●			●									●	●
RTS 850 2S	6.80						●						●			●						●	●
	6.80										●		●									●	●
RTS 1012 2S	6.10						●						●			●						●	●
	6.10										●		●									●	●
RTS 1200 2S	9.80						●						●			●						●	●
	9.80										●		●									●	●
RTS 1355 2S	5.10							●					●		●							●	●
	5.10											●	●									●	●
RTS 1500 2S	7.00																					●	●
	7.00																					●	●
RTS 1850 2S	7.20																					●	●
	7.20																					●	●

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Three flue gas passes steel jet burner boilers

RTG



- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of N0x for low polluting emissions

Description	L mm	H mm	P1 mm	L1 mm	H1 mm	H2 mm	P2 mm	P3 mm	Ø mm	Net weight kg	
										5 bar	8bar
RTG 1000	1580	1930	3240	1100	790	1250	640	1300	400	3320	3720
RTG 1200	1580	1930	3490	1100	790	1250	640	1550	400	3550	3990
RTG 1500	1800	2200	3650	1250	915	1450	720	1400	450	4700	5220
RTG 1800	1800	2200	3900	1250	915	1450	720	1650	450	4950	5500
RTG 2100	1930	2330	4510	1250	960	1530	830	1970	500	5700	6450
RTG 2600	2050	2450	4510	1310	995	1650	830	1970	500	7110	8120
RTG 3000	2050	2460	4960	1310	995	1650	830	2420	500	7650	8750
RTG 3500	2260	2660	5100	1500	1070	1780	860	2450	600	9250	10400
RTG 4000	2260	2660	5550	1500	1070	1780	860	2800	600	10050	11350
RTG 4300	2260	2660	5550	1500	1070	1780	860	2800	600	10200	11500
RTG 5000	2500	2950	6070	1620	1225	1955	922	3000	700	13300	14950
RTG 6000	2500	2950	6570	1620	1225	1955	922	3450	700	14200	5950
RTG 7500	2750	3200	7020	1800	1305	2110	1022	3600	800	19200	19950
RTG 9000	2910	3360	7320	1900	1355	2210	1022	3900	900	23000	23500

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole (models from 5000 to 9000).
The particular geometry of the heat exchanger allows reducing the presence of fumes in the high temperature zones, thus reducing the formation of N0x. Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.
The body is thermally insulated with high density stone wool and protected by an aluminium sheet.
These boilers are available in 14 models with useful output from 1,165 to 10,560 kW.
The optional control panel must be ordered separately.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello monobloc burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)	
RTG 1000	1165	1260	92.5	93.0	**4031883**
RTG 1200	1410	1522	92.7	93.2	**4031885**
RTG 1500	1760	1902	92.6	93.1	**4031401**
RTG 1800	2040	2210	92.3	92.9	**4031887**
RTG 2100	2510	2710	92.6	93.4	**4031403**
RTG 2600	3020	3260	92.7	93.1	**4031405**
RTG 3000	3520	3810	92.4	92.8	**4031407**
RTG 3500	4090	4420	92.5	93.2	**4031409**
RTG 4000	4680	5050	92.7	93.3	**4031411**
RTG 4300	5030	5450	92.3	92.8	**4031889**
RTG 5000	5830	6310	92.4	93.0	**4031413**
RTG 6000	7020	7590	92.5	93.1	**4031415**
RTG 7500	8760	9460	92.6	93.2	**4031417**
RTG 9000	10560	11400	92.6	93.2	**4031419**

The product codes above refer to 5-bar models. Maximum operating pressure 5 bar (8 bar on request).

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	**4031069**	**All models**
RIELLOtech PRIME	Vertical	**20010820**	**All models**
RIELLOtech PRIME ACS	Vertical	**20010437**	**All models**

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech PRIME.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Gas burner																										Control panels			
		Yellow flame (Standard)										Blue flame (Low NOx)																			
		Two stage	Modulating																												
		–	Mechanical cam																		Electronic cam										
		RS 130 TC	RS 190 TC	RS 190/M TC	RS 250/M MZ TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	RS 1000/M C01	RS 1200/M C01	RS 160/M BLU TC	RS 200/M BLU TC	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 510/M BLU FS1	RS 610/M BLU FS1	RS 810/M BLU FS1	RS 1000/M BLU	RS 1200/M BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 510/E BLU FS1	RS 610/E BLU FS1	RS 810/E BLU FS1	RS 1000/E BLU	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3785502	3785813	3787623	3788410	20068351	20068361	20068027	20066706	20145938	20145936	3788006	3899710	20067964	20069841	20069845	20069847	20155846	20145840	20145867	3788032	3899810	20065783	20056927	20056930	20056932	20160126	20057514	20010820	4031069	4031067	20013035
	4.5	●																											●		●	
RTG 1000	4.5											●																		●		●
	4.5																				●									●		●
	6.6		●																										●		●	
RTG 1200	6.6			●																										●		●
	6.6											●																		●		●
	6.6																				●									●		●
	5.3		●																										●		●	
RTG 1500	5.3			●																										●		●
	5.3												●																	●		●
	5.3																					●								●		●
	5.6		●																										●		●	
RTG 1800	5.6			●																										●		●
	5.6													●																●		●
	5.6																						●							●		●
	5.6				●																									●		●
RTG 2100	5.6													●																●		●
	5.6																						●							●		●
	5.5					●																								●		●
RTG 2600	5.5														●															●		●
	5.5																							●						●		●
	7.7						●																							●		●
RTG 3000	7.7														●															●		●
	7.7																							●						●		●
	5.4							●																						●		●
RTG 3500	5.4															●														●		●
	5.4																								●					●		●
	7.0								●																					●		●
RTG 4000	7.0																●													●		●
	7.0																									●				●		●
	8.2								●																					●		●
RTG 4300	8.2																	●												●		●
	8.2																										●			●		●
	5.6									●																				●		●
RTG 5000	5.6																	●												●		●
	5.6																										●			●		●
	8.4									●																				●		●
RTG 6000	8.4																		●											●		●
	8.4																											●		●		●
RTG 7500	8.1										●																			●		●
	8.1																			●										●		●

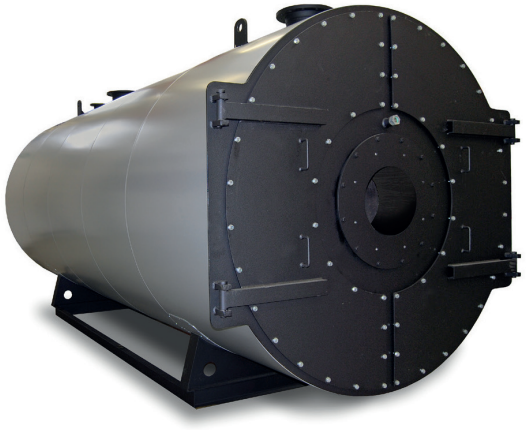
NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

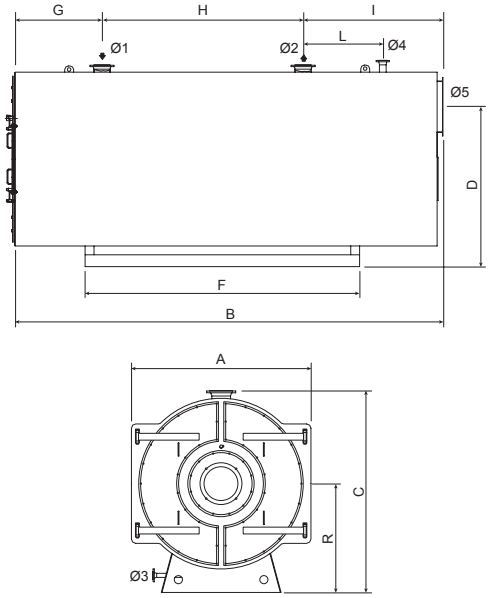
Description	Back-pressure in combustion chamber (mbar)	Light oil burner					Dual fuel burner											Control panels			
		Yellow flame (Standard)																			
		Two stage			Modulating		Two stage	Modulating													
		-			Mechanical cam		-	Mechanical cam													
		RL 130 TC	RL 190 TC	RL 250 MZ TC	RL 130/M TC	RL 190/M TC	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 160/M MX TC	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	RLS 610/M MX	RLS 800/M MX	RLS 1000/M C13	RLS 1200/M C13	Riellotech Clima Comfort	Riellotech Prime	Two stage burner management kit	3-point modulation kit
		3475432	3475613	3470010	20166486	20166490	20147800	20159361	20145372	20147789	20147806	20147809	20147812	20147813	20147802	20147815	20147814	4031069	20010820	4031067	20013035
RTG 1000	4.5	●																●		●	
	4.5				●														●		●
	4.5						●											●		●	
	4.5									●								●		●	
RTG 1200	6.6	●																●		●	
	6.6				●														●		●
	6.6							●										●		●	
	6.6									●								●		●	
RTG 1500	5.3		●															●		●	
	5.3					●													●		●
	5.3							●										●		●	
	5.3										●							●		●	
RTG 1800	5.6		●															●		●	
	5.6					●													●		●
	5.6								●									●		●	
	5.6										●							●		●	
RTG 2100	5.6			●														●		●	
	5.6										●							●		●	
RTG 2600	5.5											●						●		●	
RTG 3000	7.7												●					●		●	
RTG 3500	5.4												●					●		●	
RTG 4000	7.0													●				●		●	
RTG 4300	8.2													●				●		●	
RTG 5000	5.6														●			●		●	
RTG 6000	8.4															●		●		●	
RTG 7500	8.1																●	●		●	
RTG 9000	8.7																	●		●	

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Three flue gas passes steel jet burner boilers

RTQ T





ERP
LIGHT OIL

- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners
- The particular geometry of the heat exchange allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of N0x for low polluting emissions

Description		3000	3500	4000	5000	6000	7000	8000	9000	10000	11000	12000	14000	16000	18000
A	mm	2010	2050	2100	2350	2400	2480	2580	2800	2800	2900	3000	3080	3280	3370
B	mm	5164	5310	5425	6115	6332	6415	6432	6452	6732	6732	7332	8102	8492	8902
C	mm	2370	2400	2450	2700	2750	2830	3000	3300	3300	3400	3500	3700	3900	4000
D	mm	1790	1820	1795	2050	2095	2115	2300	2400	2400	2500	2600	2800	3000	3100
F	mm	2800	3000	3000	3800	3500	4000	3700	4000	4000	4250	4400	4500	5000	5200
G	mm	801	801	881	851	791	851	800	800	800	800	800	800	800	800
	mm	2900	3080	2800	3600	3600	3900	3700	3700	4000	4000	4600	5200	5800	6200
I	mm	1463	1429	1741	1658	1941	1663	1932	1952	1932	1932	1932	2102	1892	1902
L	mm	800	800	1050	1000	1050	1000	1050	1050	1050	1050	1050	1050	1050	1050
R	mm	1240	1250	1275	1400	1425	1465	1515	1625	1625	1675	1725	1765	1865	1910
Ø1 - straight pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 250	DN 250	DN 250	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450
Ø2 - return pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 250	DN 250	DN 250	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450
Ø3 - drain from the boiler (**)		DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40
Ø4 - joining a security group (*)		DN 80	DN 80	DN 80	DN 100	DN 100	DN 100	DN 100	DN 100	DN 125	DN 125	DN 125	DN 125	DN 125	DN 125
Ø5 - flue gas outlet	mm	600	600	700	700	700	800	800	900	900	900	1000	1100	1100	1200

(*) PN16
(**) PN40

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole. The particular geometry of the heat exchanger allows reducing the presence of fumes in the high temperature zones, thus reducing
e formation of N0x. Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.
The body is thermally insulated with high density stone wool and protected by an aluminium sheet.
These boilers are available in 14 models with useful output from 3,000 to 18,000 kW.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

RTQ T models can be equipped with control panels of the RIELLO 5000 series with various functional contents:
TMR2 - thermostatic panel for controlling a single-circuit boiler with one or two-stage burners;ÜL-M is an electronic climate control panel for controlling a modulating, one- or two-stage burner, built-in or free-standing storage ank or a DHW flow-through heat exchanger. Cascade control of a group of up to four boilers. Possibility to control 6 separate heating circuits (when ordering additional control units). Üontrol panels can be installed both on the top and on the side of the boiler.
To install the control panel on the side panel of the boiler, a special bracket is required (article no. 4031059).
The control panel is not included in the boiler delivery set and must be ordered separately!

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)	
RTQ 3000 T	3000	3226	93.0	94.0	**20069409**
RTQ 3500 T	3500	3763	93.0	94.0	**20069418**
RTQ 4000 T	4000	4301	93.0	94.0	**20069419**
RTQ 5000 T	5000	5376	93.0	94.0	**20069420**
RTQ 6000 T	6000	6452	93.0	94.0	**20069424**
RTQ 7000 T	7000	7527	93.0	94.0	**20149276**
RTQ 8000 T	8000	8602	93.0	94.0	**20069429**
RTQ 9000 T	9000	9677	93.0	94.0	**20069433**
RTQ 10000 T	10000	10753	93.0	94.0	**20069439**
RTQ 11000 T	11000	11828	93.0	94.0	**20069441**
RTQ 12000 T	12000	12903	93.0	94.0	**20069443**
RTQ 14000 T	14000	15054	93.0	94.0	**20069444**
RTQ 16000 T	16000	17204	93.0	94.0	**20069445**
RTQ 18000 T	18000	19355	93.0	94.0	**20069446**

CONTROL PANELS

Description	Code	Boiler model
Riello 5000 TMR2	07200123	All models
Riello 5000 CL-M	20020036	All models

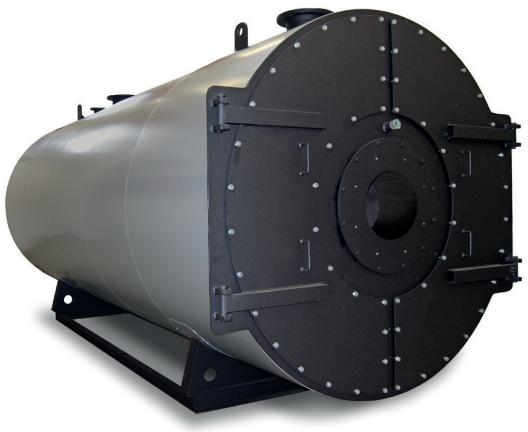
RECOMMENDED COMBINATIONS WITH BURNERS

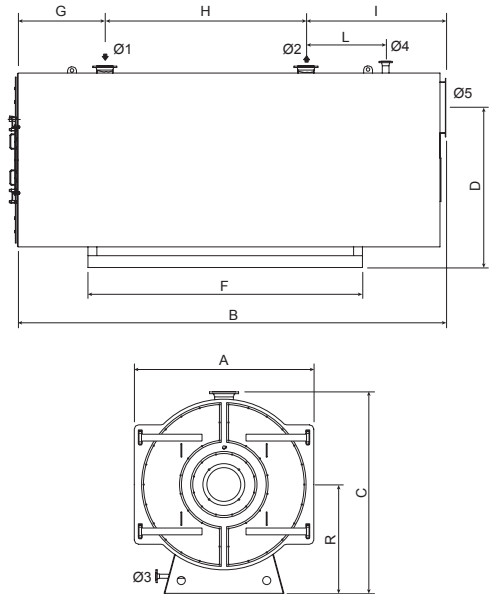
Description	Back-pressure in combustion chamber (mbar)	Gas burner												Dual fuel burner								Control panels	
		Blue flame (Low NOx)												Blue flame (Low NOx)									
		Modulating												Modulating									
		Mechanical cam						Electronic cam						Mechanical cam									
		RS 310/M BLU FS1	RS 410/M BLU FS1	RS 510/M BLU FS1	RS 610/M BLU FS1	RS 810/M BLU FS1	(1)	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 510/E BLU FS1	RS 610/E BLU FS1	RS 810/E BLU FS1	(1)	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	RLS 610/M MX	RLS 800/M MX	RLS 1000/M C13	RLS 1200/M C13	(1)	Riello 5000 CL-M	Riello 5000 TMR2
		20068245	20068284	20069845	20069847	20155846	(1)	20068261	20068294	20056930	20056932	20160126	(1)	20147807	20147810	20147812	20147813	20147802	20147815	20147814	(1)	20020036	07200123
RTQ 3000 T	6	●																				●	
	6							●														●	
	6													●									●
RTQ 3500 T	8		●																			●	
	8								●													●	
	8														●								●
RTQ 4000 T	8			●																		●	
	8									●												●	
	8															●							●
RTQ 5000 T	8				●																	●	
	8										●											●	
	8																●						●
RTQ 6000 T	9					●																●	
	9											●										●	
	9																	●					●
RTQ 7000 T	9						●															●	
	9												●									●	
	9																		●				●
RTQ 8000 T	8						●															●	
	8												●									●	
	8																		●				●
RTQ 9000 T	8						●															●	
	8												●									●	
	8																			●			●
RTQ 10000 T	9						●															●	
	9												●									●	
	9																				●		●
RTQ 11000 T	9						●															●	
	9												●									●	
	9																				●		●
RTQ 12000 T	11						●															●	
	11												●									●	
	11																				●		●
RTQ 14000 T	11						●															●	
	11												●									●	
	11																				●		●
RTQ 16000 T	12						●															●	
	12												●									●	
	12																				●		●
RTQ 18000 T	13						●															●	
	13												●									●	
	13																				●		●

(1) For combination with large burners, please contact the pre-sales service. Note: the gas burners must be completed with the gas train.
Note: light oil burners are equipped with light oil injectors.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Three flue gas passes steel jet burner boilers

RTQ TK





ERP
LIGHT OIL

- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners

Description		4000	4500	5000	6000	7000	8000	9000	10000	11000	12000	14000	16000	18000	20000
A	mm	2010	2050	2100	2350	2400	2480	2580	2750	2800	2900	3000	3080	3280	3370
B	mm	5164	5310	5425	6115	6332	6415	6432	6466	6732	6732	7332	8102	8492	8902
C	mm	2370	2400	2450	2700	2750	2830	3000	3150	3300	3400	3500	3700	3900	4000
D	mm	1790	1820	1795	2050	2095	2115	2300	2400	2400	2500	2600	2800	3000	3100
F	mm	2800	3000	3000	3800	3500	4000	3700	4020	4000	4250	4400	4500	5000	5200
G	mm	801	801	881	851	791	851	800	755	800	800	800	800	800	800
H	mm	2900	3080	2800	3600	3600	3900	3700	3920	4000	4000	4600	5200	5800	6200
I	mm	1463	1429	1741	1658	1941	1663	1932	1658	1932	1932	1932	2102	1892	1902
L	mm	800	800	1050	1000	1050	1000	1050	1000	1050	1050	1050	1050	1050	1050
R	mm	1240	1250	1275	1400	1425	1465	1515	1625	1625	1675	1725	1765	1865	1910
Ø1 - straight pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 250	DN 250	DN 250	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450
Ø2 - return pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 250	DN 250	DN 250	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450
Ø3 - drain from the boiler (**)		DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 40
Ø4 - joining a security group (*)		DN 80	DN 80	DN 80	DN 100	DN 100	DN 100	DN 100	DN 100	DN 125	DN 125	DN 125	DN 125	DN 125	DN 125
Ø5 - flue gas outlet	mm	600	600	700	700	700	800	800	900	900	900	1000	1100	1100	1200

(*) PN16
(**) PN40

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole.
Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.
The body is thermally insulated with high density stone wool and protected by an aluminium sheet.
These boilers are available in 14 models with useful output from 4000 to 20,000 kW.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

RTQ TK models can be equipped with control panels of the RIELLO 5000 series with various functional contents:
MR2 - thermostatic panel for controlling a single-circuit boiler with one or two-stage burners;ÜL-M is an electronic climate control panel for controlling a modulating, one- or two-stage burner, built-in or free-standing storage ank or a DHW flow-through heat exchanger. Cascade control of a group of up to four boilers. Possibility to control 6 separate heating circuits (when ordering additional control units).
Control panels can be installed both on the top and on the side of the boiler.
To install the control panel on the side panel of the boiler, a special bracket is required (article no. 4031059).
The control panel is not included in the boiler delivery set and must be ordered separately!

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)	
RTQ 4000 TK	4000	4348	92.0	93.0	**20149272**
RTQ 4500 TK	4500	4891	92.0	93.0	**20149273**
RTQ 5000 TK	5000	5435	92.0	93.0	**20149274**
RTQ 6000 TK	6000	6522	92.0	93.0	**20149275**
RTQ 7000 TK	7000	7609	92.0	93.0	**20065060**
RTQ 8000 TK	8000	8696	92.0	93.0	**20065062**
RTQ 9000 TK	9000	9783	92.0	93.0	**20065063**
RTQ 10000 TK	10000	10870	92.0	93.0	**20065064**
RTQ 11000 TK	11000	11957	92.0	93.0	**20065065**
RTQ 12000 TK	12000	13043	92.0	93.0	**20065066**
RTQ 14000 TK	14000	15217	92.0	93.0	**20065067**
RTQ 16000 TK	16000	17391	92.0	93.0	**20065068**
RTQ 18000 TK	18000	19565	92.0	93.0	**20065069**
RTQ 20000 TK	20000	21739	92.0	93.0	**20065070**

CONTROL PANELS

Description	**Code**	Boiler model
Riello 5000 TMR2	07200123	All models
Riello 5000 CL-M	20020036	All models

NOTE: for specific accessories and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS

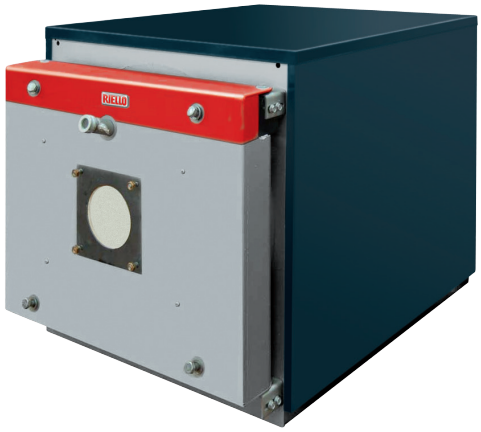
Description	Back-pressure in combustion chamber (mbar)	Gas burner					Dual fuel burner		Control panels	
		Yellow Flame (Standard)								
		Modulating					Two-stage	Modulating		
		Mechanical cam					-			
		RS 510/M MZ FS1	RS 610/M MZ FS1	RS 1000/M C01	RS 1200/M C01	(1)	(1)	(1)	Riello 5000 CL-M	Riello 5000 TMR2
		20068027	20066706	20145938	20145936	(1)	(1)	(1)	20020036	07200123
RTQ 4000 TK	8	●							●	
	8						●	●		●
RTQ 4500 TK	10		●						●	
	10						●	●		●
RTQ 5000 TK	10			●					●	
	10						●	●		●
RTQ 6000 TK	10			●					●	
	10						●	●		●
RTQ 7000 TK	12			●					●	
	12						●	●		●
RTQ 8000 TK	12				●				●	
	12						●	●		●
RTQ 9000 TK	11				●				●	
	11						●	●		●
RTQ 10000 TK	11					●			●	
	11						●	●		●
RTQ 11000 TK	12					●			●	
	12						●	●		●
RTQ 12000 TK	12					●			●	
	12						●	●		●
RTQ 14000 TK	14					●			●	
	14						●	●		●
RTQ 16000 TK	14					●			●	
	14						●	●		●
RTQ 18000 TK	16					●			●	
	16						●	●		●
RTQ 20000 TK	17					●			●	
	17						●	●		●

(1) For combination with large burners, please contact the pre-sales service.
Note: the gas burners must be completed with the gas train.
Note: light oil burners are equipped with light oil injectors.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Two flue gas passes steel jet burner boilers

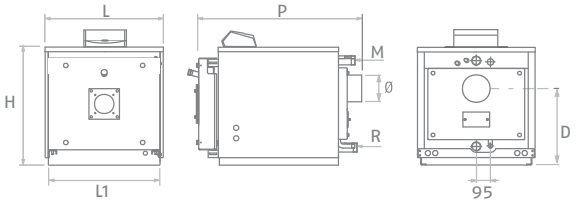
RTQ 3S

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

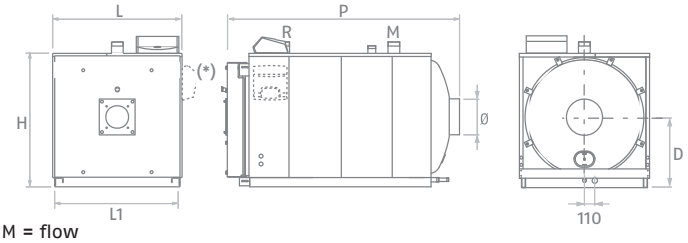


- Single-piece steel boilers
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range)

RTQ 3S 35-166



RTQ 3S 217-4000 (*) From RTQ 1100 3S to RTQ 4000 3S model



M = flow
R = return

Description	H mm	L mm	P mm	L1 mm	D mm	M Ø	R Ø	Ø mm	Net weight kg
RTQ 35 3S	605	605	880	560	310	1" ¼	1" ¼	139	137
RTQ 55 3S	605	605	1030	560	310	1" ¼	1" ¼	139	160
RTQ 70 3S	740	705	970	660	384	1" ½	1" ½	179	199
RTQ 91 3S	740	705	1120	660	384	1" ½	1" ½	179	225
RTQ 115 3S	905	805	1230	753	500	G2"	G2"	180	283
RTQ 166 3S	955	853	1405	803	525	G2"	G2"	180	355
RTQ 217 3S	1060	925	1580	875	525	G2"½	G2"½	200	455
RTQ 255 3S	1060	925	1580	875	525	G2"½	G2"½	200	473
RTQ 318 3S	1110	975	1810	925	550	G2"½	G2"½	250	610
RTQ 349 3S	1110	975	1810	925	550	G2"½	G2"½	250	610
RTQ 448 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 511 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 575 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 639 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 766 3S	1440	1285	2550	1235	715	DN100	DN100	350	1406
RTQ 896 3S	1530	1360	2865	1310	755	DN125	DN125	400	1817
RTQ 1100 3S	1630	1450	3130	1400	820	DN125	DN125	400	2280
RTQ 1300 3S	1725	1535	3155	1485	865	DN125	DN125	450	2780
RTQ 1600 3S	1822	1610	3235	1555	900	DN150	DN150	500	3160
RTQ 2100 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4170
RTQ 2400 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4180
RTQ 2700 3S	2090	1865	3560	1895	1050	DN175	DN175	500	4826
RTQ 3000 3S	2162	1935	3670	1885	1080	DN175	DN175	500	5346
RTQ 3500 3S	2240	2040	4010	1990	1155	DN200	DN200	550	6195
RTQ 4000 3S	2270	2070	4260	2020	1170	DN200	DN200	600	6790

Provided with high-performance stainless steel turbulators ensuring wide exchange surface, in order to optimize the heat exchange and allow a homogeneous thermal load. The front door features an ambidextrous opening and is provided with a highly-insulating mineral-wool double seal. Casing is made of stove-enamelled sheet. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control panels.

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Notes	Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)		
RTQ 35 3S	33.8	34.8	94.2	95.9	(1)	**20025617**
RTQ 55 3S	53.2	55.0	93.8	95.5	(1)	**20025618**
RTQ 70 3S	67.8	69.0	94.2	95.9	(1)	**20025619**
RTQ 91 3S	87.1	90.0	94.2	95.9	(1)(2)	**20024200**
RTQ 115 3S	109.7	115.0	95.8	95.1	(1)(2)	**4032606.0**
RTQ 166 3S	158.7	166.0	95.6	95.6	(1)(2)	**4032607.0**
RTQ 217 3S	206.8	217.0	95.3	96.3	(1)(2)	**4032608.0**
RTQ 255 3S	243.3	255.0	95.8	96.5	(1)(2)	**4032609.0**
RTQ 318 3S	303.4	318.0	95.6	96.5	(1)(2)	**4032610.0**
RTQ 349 3S	332.0	348.0	95.4	96.7	(1)(2)	**4032611.0**
RTQ 448 3S	427.4	448.0	95.4	96.7		**4032613.0**
RTQ 511 3S	487.5	511.0	95.4	96.7		**4032614.0**
RTQ 575 3S	548.6	575.0	95.4	96.7		**4032615.0**
RTQ 639 3S	609.6	639.0	95.4	96.7		**4032616.0**
RTQ 766 3S	730.8	766.0	95.4	96.7		**4032617.0**
RTQ 896 3S	854.8	896.0	95.4	96.7		**20008436**
RTQ 1100 3S	1049.4	1100.0	95.4	96.7		**20012427**
RTQ 1300 3S	1240.2	1300.0	95.4	96.7		**20008435**
RTQ 1600 3S	1526.4	1600.0	95.4	96.7		**20016656**
RTQ 2100 3S	2003.4	2100.0	95.4	96.7		**20016657**
RTQ 2400 3S	2289.6	2400.0	95.4	96.7		**20018817**
RTQ 2700 3S	2576.0	2700.0	95.4	96.7		**20106515**
RTQ 3000 3S	2860.0	3000.0	95.4	96.7		**20106514**
RTQ 3500 3S	3339.0	3500.0	95.4	96.7		**20107462**
RTQ 4000 3S	3816.0	4000.0	95.4	96.7		**20107467**

Maximum operating pressure 5 bar for RTQ 35 3S - RTQ 766 3S models.
Maximum operating pressure 6 bar for RTQ 896 3S - RTQ 4000 3S models.
(1) Gas products and oil products (models 35, 55 and 70) are only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.
(2) Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013).

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031395
Burner flange	20076596
Burner flange	**20076618**
Burner flange	**4031198**
Burner flange	**4031391**

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 3S 90-2400	**4031064**
RIELLOtech CLIMA COMFORT	Vertical	RTQ 3S 448-4000	**4031069**
RIELLOtech PRIME	Horizontal / Vertical	All models	**20010820**
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	**20010437**

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner														Burner accessory	Control panels				
		Yellow flame (Standard)																			
		Two stage						Modulating													
								Mechanical cam													
		RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Extended head	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3789111	3784703	3785103	3785303	3785503	3785813	3781623	3789611	3789711	3789811	3787623	3788411	20068343	20068356	3010443	20010820	4031069	4031064	4031067	20013035
RTQ 448 3S	3.5	●															●			●	
	3.5							●											●		●
RTQ 511 3S	4.2		●														●			●	
	4.2							●											●		●
RTQ 575 3S	3.4			●													●			●	
	3.4								●										●		●
RTQ 639 3S	4.5			●													●			●	
	4.5								●										●		●
RTQ 766 3S	5.3				●												●			●	
	5.3									●									●		●
RTQ 896 3S	6.0				●												●			●	
	6.0									●									●		●
RTQ 1100 3S	3.3					●											●			●	
	3.3										●								●		●
RTQ 1300 3S	5.3					●											●			●	
	5.3										●								●		●
RTQ 1600 3S	4.7						●									●	●			●	
	4.7											●				●			●		●
RTQ 2100 3S	5.1												●						●		●
RTQ 2400 3S	7.6													●					●		●
RTQ 2700 3S	8.0													●				●			●
RTQ 3000 3S	6.5													●				●			●
RTQ 3500 3S	7.1														●			●			●
RTQ 4000 3S	8.0														●			●			●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner											Dual fuel burner										Burner accessory	Burner flange			Control panels				
		Yellow flame (Standard)																				Blue flame (Low NOx)									
		Two stage						Modulating					Two stage				Modulating														
		-						Mechanical cam					-				Mechanical cam														
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3474633	3475033	3475233	3475433	3475613	3470010	20166504	20166476	20166484	20166487	20169231	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097869	4031395	20076596	20076618	20010820	4031069	4031064	4031067	20013035
RTQ 448 3S	3.5	●																								●			●	
	3.5							●															●					●		●
	3.5												●									●				●			●	
RTQ 511 3S	4.2	●																								●			●	
	4.2							●															●					●		●
	4.2													●												●			●	
RTQ 575 3S	3.4	●																					●			●			●	
	3.4								●																			●		●
	3.4													●												●			●	
RTQ 639 3S	4.5		●																							●			●	
	4.5								●																			●		●
	4.5													●												●			●	
RTQ 766 3S	5.3			●																						●			●	
	5.3									●																		●		●
	5.3													●												●			●	
RTQ 896 3S	6.0			●																						●			●	
	6.0									●																		●		●
	6.0														●											●			●	
RTQ 1100 3S	3.3				●																					●			●	
	3.3										●																	●		●
	3.3														●											●			●	
RTQ 1300 3S	5.3				●																					●			●	
	5.3										●																	●		●
	5.3															●										●			●	
RTQ 1600 3S	4.7					●																				●			●	
	4.7											●																●		●
	4.7																●									●			●	
RTQ 2100 3S	5.1						●																			●			●	
	5.1											●																●		●
	5.1																	●								●			●	
RTQ 2400 3S	7.6																									●			●	
	7.6																											●		●
	7.6																		●					●		●			●	
RTQ 2700 3S	8.0																									●			●	
	8.0																										●			●
	8.0																		●					●		●			●	
RTQ 3000 3S	6.5																									●			●	
	6.5																										●			●
	6.5																		●					●		●			●	
RTQ 3500 3S	7.1																									●			●	
	7.1																										●			●
	7.1																			●					●	●			●	
RTQ 4000 3S	8.0																									●			●	
	8.0																										●			●
	8.0																				●				●	●			●	

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																						Burner accessory	Burner accessory		Control panels				
		Yellow flame (Standard)																	Blue flame (Low NOx)												
		Two stage							Modulating										One stage			Two stage										
		-							Mechanical cam										-			-										
		RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	BS1	BS2	BS3	BS1D	BS2D	BS3D	Extended head	Extended head	Extended head	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3789011	3789111	3784703	3785103	3785303	3785503	3785813	3788711	3788811	3781623	3789611	3789711	3789811	3787623	3788411	20068343	20068356	3761158	3761258	3761316	3761558	3761658	3761716	3010443	3001007	3001009	20010820	4031069	4031064	4031067	20013035
RTQ 35 3S	0.4																		●									●				
	0.4																					●						●			●	
RTQ 55 3S	0.9																			●						●		●				
	0.9																						●			●		●			●	
RTQ 70 3S	0.6																			●						●		●				
	0.6																						●			●		●			●	
RTQ 91 3S	2.0																				●						●	●				
	2.0																							●			●	●			●	
RTQ 115 3S	1.5																				●						●	●				
	1.5																							●			●	●			●	
RTQ 166 3S	1.3																				●						●	●				
	1.3																							●			●	●			●	
RTQ 217 3S	2.2	●																									●				●	
	2.2								●																				●			●
RTQ 255 3S	2.8	●																									●				●	
	2.8								●																				●			●
RTQ 318 3S	3.2	●																									●				●	
	3.2									●																				●			●
RTQ 349 3S	3.9		●																								●				●	
	3.9									●																				●			●
RTQ 448 3S	3.5		●																								●				●	
	3.5										●																				●			●
RTQ 511 3S	4.2			●																							●				●	
	4.2										●																				●			●
RTQ 575 3S	3.4				●																						●				●	
	3.4											●																				●			●
RTQ 639 3S	4.5				●																						●				●	
	4.5											●																				●			●
RTQ 766 3S	5.3					●																					●				●	
	5.3												●																			●			●
RTQ 896 3S	6.0					●																					●				●	
	6.0												●																			●			●
RTQ 1100 3S	3.3						●																				●				●	
	3.3													●																		●			●
RTQ 1300 3S	5.3						●																				●				●	
	5.3													●																		●			●
RTQ 1600 3S	4.7							●																	●		●				●	
	4.7														●										●						●			●
RTQ 2100 3S	5.1															●															●			●
RTQ 2400 3S	7.6																●														●			●
RTQ 2700 3S	8.0																●												●					●
RTQ 3000 3S	6.5																●												●					●
RTQ 3500 3S	7.1																	●											●					●
RTQ 4000 3S	8.0																	●											●					●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner																						Burner accessory							Burner flange			Control panels				
		Yellow flame (Standard)																																				
		One stage					Two stage												Modulating																				
		-					-												Mechanical cam																				
		RG1NR	RG2	RG3	RG5S	RL 34/1 MZ TL	RG2KD	RG3D	RG4D	RG5D	RL 34 MZ TL	RL 44 MZ TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	Extended head	Extended head	Extended head	Extended head	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3736405	3737750	3739300	3739950	3470111	3738100	3739450	3739750	3739850	3470211	3470311	3474633	3475033	3475233	3475433	3475613	3470010	20166495	20166499	20166504	20166476	20166484	20166487	20169231	3000964	3000965	3000963	3000969	3001068	3000981	3010426	4031198	4031395	4031391	20010820	4031069	4031064	4031067	20013035
RTQ 35 3S	0.4	●																								●									●				
RTQ 55 3S	0.9		●																						●										●				
	0.9						●																												●			●	
RTQ 70 3S	0.6						●																												●			●	
RTQ 91 3S	2			●																						●									●				
	2							●																		●									●			●	
RTQ 115 3S	1.5							●																											●			●	
RTQ 166 3S	1.3				●																														●				
	1.3								●																			●							●			●	
	1.3																		●														●				●		●
RTQ 217 3S	2.2				●																								●				●		●				
	2.2									●																				●			●		●			●	
	2.2																		●																		●		●
RTQ 255 3S	2.8				●																								●				●		●				
	2.8										●																			●						●		●	
	2.8																		●																		●		●
RTQ 318 3S	3.2					●																													●				
	3.2										●																								●			●	
	3.2																			●																	●		●
RTQ 349 3S	3.9											●																								●		●	
	3.9																			●																	●		●
RTQ 448 3S	3.5												●																							●		●	
	3.5																				●												●				●		●
RTQ 511 3S	4.2												●																							●		●	
	4.2																				●												●				●		●
RTQ 575 3S	3.4												●																				●		●			●	
	3.4																					●															●		●
RTQ 639 3S	4.5													●																						●		●	
	4.5																					●															●		●
RTQ 766 3S	5.3														●																						●		●	
	5.3																						●															●		●
RTQ 896 3S	6														●																						●		●	
	6																						●															●		●
RTQ 1100 3S	3.3															●																						●		●	
	3.3																							●															●		●
RTQ 1300 3S	5.3															●																						●		●	
	5.3																							●															●		●
RTQ 1600 3S	4.7																●																						●		●	
	4.7																								●															●		●
RTQ 2100 3S	5.1																	●																						●		●	
	5.1																								●															●		●

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

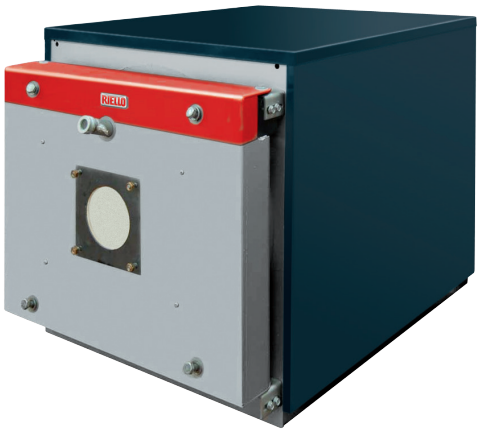
Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner											Burner accessory			Burner flange		Control panels	
		Yellow flame (Standard)										Blue flame (Low NOx)							
		Two stage						Modulating											
		-						Mechanical cam											
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Extended head	Extended head	Burner flange	Burner flange	Riellotech Prime	Two stage burner management kit
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097868	20097869	20097840	20076596	20076618	20010820	4031067
RTQ 217 3S	2.2	●													●			●	●
RTQ 255 3S	2.8	●													●			●	●
RTQ 318 3S	3.2		●										●					●	●
RTQ 349 3S	3.9		●										●					●	●
RTQ 448 3S	3.5			●										●				●	●
RTQ 511 3S	4.2				●													●	●
RTQ 575 3S	3.4				●													●	●
RTQ 639 3S	4.5				●													●	●
RTQ 766 3S	5.3				●													●	●
RTQ 896 3S	6.0					●												●	●
RTQ 1100 3S	3.3					●												●	●
RTQ 1300 3S	5.3						●											●	●
RTQ 1600 3S	4.7							●										●	●
RTQ 2100 3S	5.1								●									●	●
RTQ 2400 3S	7.6									●						●		●	●
RTQ 2700 3S	8.0									●						●		●	●
RTQ 3000 3S	6.5									●						●		●	●
RTQ 3500 3S	7.1										●						●	●	●
RTQ 4000 3S	8.0											●					●	●	●

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Two flue gas passes steel jet burner boilers

RTQ 2S

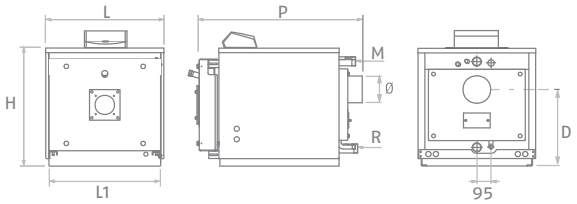
Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.



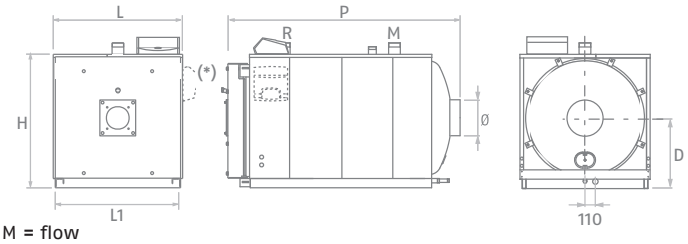
ERP
LIGHT OIL

- Single-piece steel boilers, that can be matched with any fuel jet burners
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range).

RTQ 2S 50-235



RTQ 2S 297-5000



M = flow
R = return

Description	H mm	L mm	L1 mm	P mm	D mm	Ø mm	Net weight kg
RTQ 50 2S	605	605	560	885	325	139	127
RTQ 64 2S	605	605	560	1035	325	139	160
RTQ 82 2S	740	705	660	970	384	179	199
RTQ 105 2S	740	705	660	1120	384	179	225
RTQ 154 2S	790	805	753	1220	500	180	288
RTQ 203 2S	840	853	803	1400	525	180	382
RTQ 235 2S	840	853	803	1400	525	180	382
RTQ 297 2S	980	925	875	1550	525	200	458
RTQ 323 2S	980	925	875	1550	525	200	458
RTQ 357 2S	980	925	875	1550	525	200	478
RTQ 418 2S	1030	975	925	1770	550	250	630
RTQ 467 2S	1030	975	925	1770	550	250	630
RTQ 537 2S	1030	975	925	1945	550	250	731
RTQ 597 2S	1030	975	925	1945	550	250	726
RTQ 715 2S	1210	1150	1100	2115	655	300	953
RTQ 837 2S	1210	1150	1100	2210	655	300	1037
RTQ 920 2S	1280	1220	1170	2380	690	300	1237
RTQ 1020 2S	1335	1285	1235	2515	715	450	1530
RTQ 1250 2S	1430	1360	1310	2835	755	400	2257
RTQ 1500 2S	1530	1450	1400	2965	820	400	2570
RTQ 1700 2S	1610	1535	1485	3125	865	450	2841
RTQ 2020 2S	1680	1605	1555	3115	900	450	3340
RTQ 2320 2S	1750	1655	1605	3210	925	450	3725
RTQ 2620 2S	1925	1800	1750	3455	1015	450	4667
RTQ 2920 2S	1995	1865	1815	3560	1050	500	4826
RTQ 3200 2S	1996	1865	1815	3611	1050	500	4905
RTQ 3500 2S	2055	1935	1885	3670	1080	500	5346
RTQ 4000 2S	2140	2040	1990	4004	1155	550	6195
RTQ 4500 2S	2170	2070	2020	4254	1170	600	6790
RTQ 5000 2S	2355	2230	2180	4521	1250	650	7965

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and flame-inversion. Equipped with removable high-efficiency stainless steel turbulators ensuring an optimized heat exchange and a homogeneous thermal load.
The front door features an ambidextrous opening and is provided with a mineral-wool double seal. Casing is made of stove-enamelled sheet.
The control panel should be ordered separately.

- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELL0tech control boards.

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)	
RTQ 50 2S	50	54.2	92.2	95.1	**20136573**
RTQ 64 2S	64	69.3	92.3	95.3	**20136574**
RTQ 82 2S	82	88.8	92.3	95.4	**20136575**
RTQ 105 2S	105	113.6	92.4	95.7	**20136577**
RTQ 154 2S	154	166	92.9	91.4	**20136578**
RTQ 203 2S	203	217	93.4	-	**20136579**
RTQ 235 2S	235	255	92.3	92.8	**20136580**
RTQ 297 2S	297	318	93.4	-	**20136581**
RTQ 323 2S	323	348	92.8	93.3	**20136582**
RTQ 357 2S	357	384	92.9	93.3	**20136583**
RTQ 418 2S	418	448	93.3	-	**20136584**
RTQ 467 2S	467	500	93.4	93.3	**20136585**
RTQ 537 2S	537	575	93.4	-	**20136587**
RTQ 597 2S	597	639	93.4	93.3	**20136588**
RTQ 715 2S	715	766	93.4	-	**20136589**
RTQ 837 2S	837	896	93.4	93.3	**20136590**
RTQ 920 2S	920	990	92.9	93	**20136592**
RTQ 1020 2S	1020	1100	92.7	92.9	**20136594**
RTQ 1250 2S	1250	1338	93.4	93.3	**20136595**
RTQ 1500 2S	1500	1606	93.4	93.3	**20136598**
RTQ 1700 2S	1700	1820	93.4	93.3	**20136599**
RTQ 2020 2S	2020	2162	93.4	93.3	**20136600**
RTQ 2320 2S	2320	2485	93.4	93.3	**20136601**
RTQ 2620 2S	2620	2830	92.5	92.8	**20136602**
RTQ 2920 2S	2920	3150	92.7	92.9	**20136603**
RTQ 3200 2S	3200	3450	92.7	92.9	**20136605**
RTQ 3500 2S	3500	3780	92.7	92.9	**20136606**
RTQ 4000 2S	4000	4315	92.7	92.9	**20136607**
RTQ 4500 2S	4500	4854	92.7	92.9	**20136608**
RTQ 5000 2S	5000	5394	92.7	92.9	**20136609**

Maximum operating pressure 6 bar for RTQ 2S 50 - 5000 models.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	**20043900**
Burner flange	**20047680**
Burner flange	**4031188**
Burner flange	**4031395**
Burner flange	**20076596**
Burner flange	**20076618**
Burner flange	**20067631**
Burner flange	**4031196**
Burner flange	**20043899**
Burner flange	**4031186**
Burner flange	**4031192**
Burner flange	**4031198**

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 2S 50-2620	**4031064**
RIELLOtech CLIMA COMFORT	Vertical	RTQ 2S 715-5000	**4031069**
RIELLOtech PRIME	Horizontal / Vertical	All models	**20010820**
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	**20010437**

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																				Burner flange							Control panels				
		Yellow flame (Standard)																															
		One stage	Two stage							Modulating																							
		-	-							Mechanical cam																							
		RS 44/1 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3788611	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	20043900	20047680	4031188	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067	20013035
RTQ 418 2S	2.9	●																						●				●				
	2.9		●																					●				●			●	
	2.9									●														●						●		●
RTQ 467 2S	3.3			●																				●				●			●	
	3.3										●													●						●		●
RTQ 537 2S	3.0				●																		●					●			●	
	3.0											●											●							●		●
RTQ 597 2S	5.1				●																		●					●			●	
	5.1											●											●							●		●
RTQ 715 2S	4.7				●																		●					●			●	
	4.7												●										●							●		●
RTQ 837 2S	8.1					●																	●					●			●	
	8.1												●										●							●		●
RTQ 920 2S	4.6					●																	●					●			●	
	4.6												●										●							●		●
RTQ 1020 2S	4.6					●															●							●			●	
	4.6												●								●									●		●
RTQ 1250 2S	5.8						●														●							●			●	
	5.8													●							●									●		●
RTQ 1500 2S	5.4							●													●							●			●	
	5.4													●							●									●		●
RTQ 1700 2S	7.2								●													●						●			●	
	7.2														●							●								●		●
RTQ 2020 2S	4.8								●																		●	●			●	
	4.8														●												●			●		●
RTQ 2320 2S	4.2															●											●			●		●
RTQ 2620 2S	6.0																●								●					●		●
RTQ 2920 2S	6.3																●								●				●			●
RTQ 3200 2S	7.9																	●							●				●			●
RTQ 3500 2S	7.9																	●							●				●			●
RTQ 4000 2S	7.7																		●							●			●			●
RTQ 4500 2S	8.0																			●						●			●			●
RTQ 5000 2S	7.9																			●						●			●			●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner												Dual fuel burner								Burner accessory			Burner flange							Control panels				
		Yellow flame (Standard)																																		
		Two stage						Modulating						Two stage						Modulating																	
		-						Mechanical cam						-						Mechanical cam																	
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3474633	3475033	3475233	3475433	20011008	3470010	20166499	20166504	20166476	20166484	20166487	20169231	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	3010422	20043900	20047680	4031188	4031196	4031395	20076596	20067631	20010820	4031069	4031064	4031067	20013035
	2.9	●																										●			●			●	
RTQ 418 2S	2.9							●																				●					●		●
	2.9													●							●							●			●			●	
	3.3	●																										●			●			●	
RTQ 467 2S	3.3								●																			●					●		●
	3.3														●							●						●			●			●	
	3	●																										●			●			●	
RTQ 537 2S	3								●																			●					●		●
	3															●										●					●			●	
	5.1		●																							●					●			●	
RTQ 597 2S	5.1									●																●							●		●
	5.1															●										●					●			●	
	4.7		●																							●					●			●	
RTQ 715 2S	4.7									●																●							●		●
	4.7															●										●					●			●	
	8.1			●																						●					●			●	
RTQ 837 2S	8.1										●															●							●		●
	8.1																●										●				●			●	
	4.6			●																						●					●			●	
RTQ 920 2S	4.6										●															●							●		●
	4.6																●										●				●			●	
	4.6			●																				●							●			●	
RTQ 1020 2S	4.6										●													●									●		●
	4.6																●							●							●			●	
	5.8				●																			●							●			●	
RTQ 1250 2S	5.8											●												●									●		●
	5.8																	●						●							●			●	
	5.4					●																			●						●			●	
RTQ 1500 2S	5.4											●												●									●		●
	5.4																		●						●						●			●	
	7.2					●																			●						●			●	
RTQ 1700 2S	7.2												●												●								●		●
	7.2																		●						●						●			●	
	4.8					●																								●	●			●	
RTQ 2020 2S	4.8												●																	●			●		●
	4.8																			●										●	●			●	
	4.2						●																●							●	●			●	
RTQ 2320 2S	4.2																																●		●
RTQ 2620 2S	6.0						●																						●		●			●	

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																										Burner flange											Control panels			
		Yellow flame (Standard)																										Blue flame (Low NOx)													
		One stage		Two stage								Modulating																One stage		Two stage													
		-		-								Mechanical cam																-		-													
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	BS2	BS3	BS2D	BS3D	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	3761258	3761316	3761658	3761716	20043899	20043900	20047680	4031186	4031188	4031192	4031198	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067	20013035
RTQ 50 2S	0.3																							●															●				
	0.3																									●													●			●	
RTQ 64 2S	0.8																							●															●				
	0.8																									●													●			●	
RTQ 82 2S	0.8																								●			●											●				
	0.8																										●	●											●			●	
RTQ 105 2S	1.4																								●			●											●				
	1.4																										●	●											●			●	
RTQ 154 2S	1.6																								●						●								●				
	1.6																										●				●								●			●	
RTQ 203 2S	1.8	●																															●						●				
	1.8			●																													●						●			●	
	1.8											●																					●								●		●
RTQ 235 2S	2.7	●																															●						●				
	2.7			●																													●						●			●	
	2.7												●																				●								●		●
RTQ 297 2S	3.5	●																																●						●				
	3.5			●																														●						●			●	
	3.5													●																				●								●		●
RTQ 323 2S	3.9		●																														●						●				
	3.9				●																													●						●			●	
	3.9												●																				●								●		●
RTQ 357 2S	4.1		●																															●						●				
	4.1				●																													●						●			●	
	4.1												●																					●								●		●
RTQ 418 2S	2.9		●																															●						●				
	2.9				●																													●						●			●	
	2.9												●																					●								●		●
RTQ 467 2S	3.3					●																												●						●			●	
	3.3													●																				●								●		●
RTQ 537 2S	3.0						●																										●						●			●	
	3.0														●																		●								●		●
RTQ 597 2S	5.1						●																										●						●			●	
	5.1														●																		●								●		●
RTQ 715 2S	4.7						●																										●						●			●	
	4.7															●																	●								●		●
RTQ 837 2S	8.1							●																									●						●			●	
	8.1															●																	●								●		●
RTQ 920 2S	4.6							●																									●						●			●	
	4.6															●																	●								●		●
RTQ 1020 2S	4.6							●																					●										●			●	
	4.6															●													●											●			●	
RTQ 1250 2S	5.8								●																				●										●			●	
	5.8																●												●												●		●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Gas burner																										Burner flange											Control panels				
		Yellow flame (Standard)																						Blue flame (Low N0x)																		
		One stage		Two stage								Modulating												One stage		Two stage																		
		-		-								Mechanical cam												-		-																		
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	BS2	BS3	BS2D	BS3D	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	3761258	3761316	3761658	3761716	20043899	20043900	20047680	4031186	4031188	4031192	4031198	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067	20013035
RTQ 1500 2S	5.4									●																			●										●			●	
	5.4																●												●												●		●
RTQ 1700 2S	7.2										●																			●										●			●	
	7.2																	●												●												●		●
RTQ 2020 2S	4.8										●																												●	●			●	
	4.8																	●																						●			●		●
RTQ 2320 2S	4.2																		●																				●			●		●
RTQ 2620 2S	6.0																			●																	●					●		●
RTQ 2920 2S	6.3																			●																	●				●			●
RTQ 3200 2S	7.9																				●																●				●			●
RTQ 3500 2S	7.9																				●																●				●			●
RTQ 4000 2S	7.7																					●																●				●			●
RTQ 4500 2S	8.0																						●															●				●			●
RTQ 5000 2S	7.9																						●															●				●			●

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Light oil burner																			Burner accessory			Burner flange										Control panels				
		Yellow flame (Standard)																																					
		One stage				Two stage									Modulating																									
		-													Mechanical cam																									
		RG2	RG3	RG4S	RL 34/1 MZ TL	RG3D	RG4D	RL 34 MZ TL	RL 44 MZ TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3737750	3739300	3739650	3470111	3739450	3739750	3470211	3470311	3474633	3475033	3475233	3475433	20011008	3470010	20166495	20166499	20166504	20166476	20166484	20166487	20169231	3000964	3000965	3010422	20043900	20047680	4031186	4031188	4031192	4031196	4031198	4031395	20076596	20067631	20010820	4031069	4031064	4031067	20013035
RTQ 50 2S	0.3	●																					●													●				
RTQ 64 2S	0.8	●																					●													●				
RTQ 82 2S	0.8		●																					●												●				
RTQ 82 2S	0.8					●																		●												●			●	
RTQ 105 2S	1.4		●																																	●				
	1.4					●																		●												●			●	
RTQ 154 2S	1.6			●																								●								●				
	1.6						●																					●								●			●	
RTQ 203 2S	1.8				●																										●				●				
	1.8							●																				●								●			●	
	1.8															●															●					●		●	
RTQ 235 2S	2.7				●																										●				●				
	2.7							●																							●				●			●	
	2.7															●															●					●		●	
RTQ 297 2S	3.5				●																									●					●				
	3.5							●																						●					●			●	
	3.5																●													●							●		●
RTQ 323 2S	3.9								●																					●					●			●	
	3.9																●													●							●		●
RTQ 357 2S	4.1									●																							●		●			●	
	4.1																●																●					●		●
RTQ 418 2S	2.9									●																							●		●			●	
	2.9																●																●					●		●
RTQ 467 2S	3.3									●																							●		●			●	
	3.3																	●															●					●		●
RTQ 537 2S	3.0									●																							●		●			●	
	3.0																	●															●					●		●
RTQ 597 2S	5.1										●																		●								●			●	
	5.1																		●										●									●		●
RTQ 715 2S	4.7										●																		●								●			●	
	4.7																		●										●									●		●
RTQ 837 2S	8.1											●																		●								●			●	
	8.1																			●										●									●		●
RTQ 920 2S	4.6											●																		●								●			●	
	4.6																			●										●									●		●
RTQ 1020 2S	4.6											●														●												●			●	
	4.6																			●						●													●		●
RTQ 1250 2S	5.8												●													●												●			●	
	5.8																				●					●													●		●
RTQ 1500 2S	5.4													●													●												●			●	
	5.4																				●					●													●		●
RTQ 1700 2S	7.2													●													●												●			●	
	7.2																					●					●													●		●
RTQ 2020 2S	4.8													●																						●		●			●	
	4.8																					●														●		●			●	
RTQ 2320 2S	4.2														●										●											●					●	
RTQ 2620 2S	6.0														●																					●					●	

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner								Burner accessory		Burner flange								Control panels	
		Yellow flame (Standard)																			
		Two stage						Modulating													
		-						Mechanical cam													
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Two stage burner management kit
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	20043900	20047680	4031188	4031192	4031196	4031198	4031395	20067631	20010820	4031067
RTQ 203 2S	1.8	●															●			●	●
RTQ 235 2S	2.7	●															●			●	●
RTQ 297 2S	3.5		●												●					●	●
RTQ 323 2S	3.9		●												●					●	●
RTQ 357 2S	4.1		●															●		●	●
RTQ 418 2S	2.9		●							●								●		●	●
RTQ 467 2S	3.3			●							●							●		●	●
RTQ 537 2S	3.0				●									●						●	●
RTQ 597 2S	5.1				●									●						●	●
RTQ 715 2S	4.7				●									●						●	●
RTQ 837 2S	8.1					●										●				●	●
RTQ 920 2S	4.6					●										●				●	●
RTQ 1020 2S	4.6					●						●								●	●
RTQ 1250 2S	5.8						●					●								●	●
RTQ 1500 2S	5.4							●					●							●	●
RTQ 1700 2S	7.2							●					●							●	●
RTQ 2020 2S	4.8								●										●	●	●

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 393.

CAST IRON JET BURNER BOILERS GAS/OIL

THREE FLUE GAS PASSES

THREE FLUE GAS PASSES

TREGÌ N

TREGÌ 3N (23,9 KW)
TREGÌ 4N (31,5 KW)
TREGÌ 5N (40,2 KW)
TREGÌ 6N (48,2 KW)
TREGÌ 7N (56,2 KW)
TREGÌ 8N (63,8 KW)
TREGÌ 9N (72,5 KW)
TREGÌ 10N (83,5 KW)

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TREGÌ NK

TREGÌ 3/60 NK (23,9 KW)
TREGÌ 4/60 NK (31,5 KW)
TREGÌ 3/100 NK (23,9 KW)
TREGÌ 4/100 NK (31,5 KW)
TREGÌ 5/100 NK (40,2 KW)

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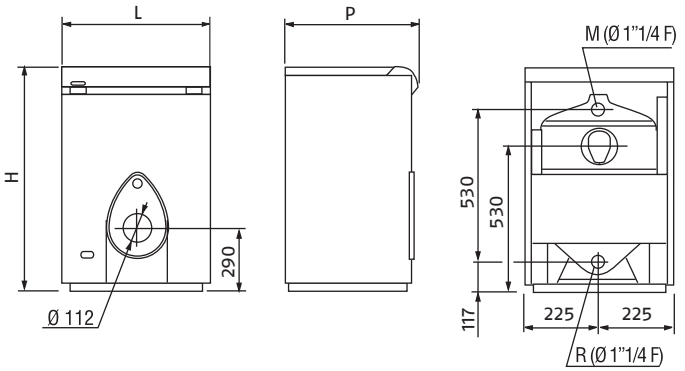
Three flue gas passes cast iron jet burner boilers

Tregì N



- Cast-iron boilers with three flue gas passes, removable turbulators, wet combustion chamber and winged pipes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	Ø mm	Net weight kg
TREGÌ 3 N	850	450	490	130	109
TREGÌ 4 N	850	450	590	130	135
TREGÌ 5 N	850	450	690	130	161
TREGÌ 6 N	850	450	790	130	187
TREGÌ 7 N	850	450	890	130	213
TREGÌ 8 N	850	450	990	130	239
TREGÌ 9 N	965	450	995	180	267
TREGÌ 10 N	965	450	1095	180	297

The front door, with ambidextrous opening, is provided with a glass wool insulation, while the boiler body is insulated through a high-density glass wool layer. The built-in control panel is equipped with safety devices and can manage an one-stage burner. Casing is made of stove-enamelled steel sheet.

- Possible combination with a separated DHW tank
- Allowed return temperature up to 35 °C for all fuels
- Easy handling: this product is supplied in one only pre-assembled item inside a wooden box on a pallet.

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)	
TREGÌ 3 N	23.9	26.5	90.2	90.9	**4040719**
TREGÌ 4 N	31.5	34.8	90.5	91.3	**4040720**
TREGÌ 5 N	40.2	44.3	90.7	91.6	**4040721**
TREGÌ 6 N	48.2	53.1	90.8	92.0	**4040722**
TREGÌ 7 N	56.2	62.0	90.6	91.8	**4040723**
TREGÌ 8 N	63.8	70.0	91.1	92.0	**4040724**
TREGÌ 9 N	72.5	80.0	90.63	90.3	**4040725**
TREGÌ 10 N	83.5	92.0	90.76	90.5	**4040726**

ACCESSORIES

Description	Code
Global shut-off kit	4047318

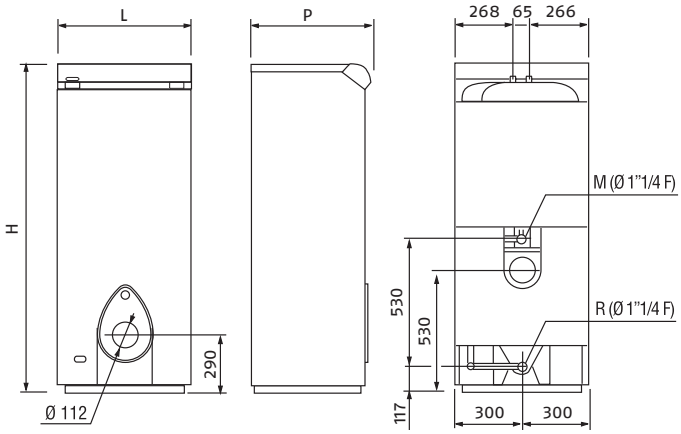
RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Gas burner		Light oil burner			
		Blue flame (Low NOx)		Yellow flame (Standard)			
		One stage					Two stage
		BS2	BS1	RG2	RG0.R	RG1NR	RG2KD
		3761258	3761158	3737750	3736550	3736405	3738100
TREGÌ 3 N	0.1		•				
	0.1				•		
TREGÌ 4 N	0.17		•				
	0.17					•	
TREGÌ 5 N	0.26		•				
	0.26					•	
TREGÌ 6 N	0.36	•					
	0.36			•			
TREGÌ 7 N	0.42	•					
	0.42			•			
TREGÌ 8 N	0.6	•					
	0.6						•

NOTE: the gas burners must be completed with the gas train.
NOTE: the light oil burners must be completed with the light oil nozzles.

Three flue gas passes cast iron jet burner boilers

Tregì NK



- Cast-iron boilers with three flue gas passes with storage cylinder, removable turbulators, wet combustion chamber and winged pipes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	Ø mm	Net weight kg
TREGÌ 3/60 NK	1470	450	580	130	157
TREGÌ 4/60 NK	1470	450	580	130	182
TREGÌ 3/100 NK	1470	600	580	130	157
TREGÌ 4/100 NK	1470	600	580	130	182
TREGÌ 5/100 NK	1510	600	690	130	223

Enamelled storage tank, of 60 lt or 100 lt capacity, perfectly insulated with a styrofoam cover, complete with hydraulic circuit and high efficiency circulator. The front door, with ambidextrous opening, is provided with a glass wool insulation, while the boiler body is insulated through a high-density glass wool layer.
The built-in control panel is equipped with safety devices and can manage an one-stage burner. Casing is made of stove-enamelled steel sheet.

- Allowed return temperature up to 35 °C for all fuels
- Easy handling: this product is supplied in one only pre-assembled item inside a wooden box on a pallet (models 3NK and 4NK) or in separated parcels (boiler and casing) on a pallet

TECHNICAL DATA

Description	Power - kW		Efficiency - %		Tank capacity liters	Code
	Output useful 80°/60° max	Furnace input min-max	Useful Pn (80°/60°)	Useful 30% Pn (30 °C)		
TREGÌ 3/60 NK	23.9	26.5	90.2	90.9	60	**20101199**
TREGÌ 4/60 NK	31.5	34.8	90.5	91.3	60	**20101200**
TREGÌ 3/100 NK	23.9	26.5	90.2	90.9	100	**20101201**
TREGÌ 4/100 NK	31.5	34.8	90.5	91.3	100	**20101202**
TREGÌ 5/100 NK	40.2	44.3	90.7	91.6	100	**20101203**

ACCESSORIES

Description	Code
Global shut-off kit	**4047318**

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Gas burner	Light oil burner	
		Blue flame (Low NOx)	Yellow flame (Standard)	
		One stage		
		BS1	RGO.R	RG1NR
		3761158	3736550	3736405
TREGÌ 3/60 NK	0.10	•		
	0.10		•	
TREGÌ 4/60 NK	0.17	•		
	0.17			•
TREGÌ 3/100 NK	0.10	•		
	0.10		•	
TREGÌ 4/100 NK	0.17	•		
	0.17			•
TREGÌ 5/100 NK	0.26	•		
	0.26			•

NOTE: the gas burners must be completed with the gas train.
NOTE: the light oil burners must be completed with the light oil nozzles.

CONTROL PANELS AND THERMOREGULATIONS

	APPLICATION	
ELECTRONIC	 RIELLOTECH CLIMA COMFORT RIELLOTECH CLIMA MIX page 395	 RIELLO 5000 CL-M page 397
THERMOSTATIC	 RIELLOTECH PRIME RIELLOTECH PRIME ACS page 399	 RIELLO 5000 TMR2 page 401

APPLICATION	ELECTRONIC			THERMOSTATIC		
	CLIMA COMFORT	**CLIMA MIX**	**RIELLO 5000 CL-M**	**PRIME**	**PRIME ACS**	**RIELLO 5000 TMR2**
HORIZONTAL	•		•	•	•	•
VERTICAL	•	•				
FOR ELECTRICAL CABINET	•	•				
BURNER	Modulating*		Modulating	One stage/two stage (with kit code 4031067)	One stage/two stage (with kit code 4031067)	One stage/two stage
CASCADE APPLICATION	• Immersion or clip probe		•			
SOLAR SYSTEM	• Probes 2 x 20010103 1 x 4031913					
DHW TANK	○ Probe 1 x 20010103		•		• Probe included	•
DIRECT ZONE	•		•	•	•	•
1st MIXED ZONE	• Immersion or clip probe	• Immersion or clip probe	With kit 20022775			
	Optional: indoor probe or remote control RC3					
2nd MIXED ZONE	• With kit 20102310, immersion or clip probe	• With kit 20011194, immersion or clip probe	With kit 20022775			
	Optional: indoor probe or remote control RC3					
ALTERNATIVE SOURCE GENERATOR	• For biomass: immersion probe					

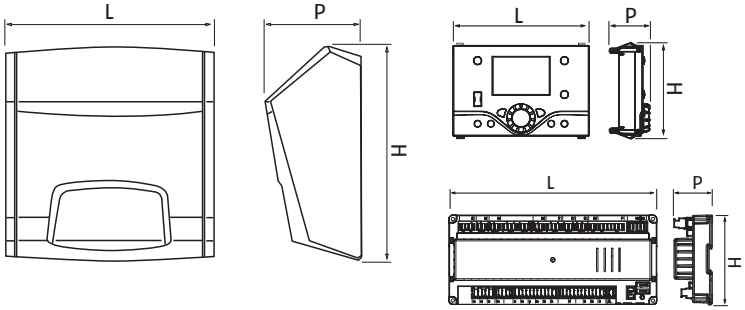
* For modulating burner matched with cabinet installation control panel, add kit code 20013035.

USE OF RIELLOTECH REGULATION SYSTEMS

RIELLOTECH regulation systems are specifically designed for the following ranges: TAU N, RTS 3S, RTQ and RTQ 3S. Besides they allow the addition of more functions concerning the thermoregulations integrated in the model TAU UNIT OIL.
The complete compositions and the communication kits are to be checked on the specific accessories tables in the sections concerning boilers and thermal groups.

Control panels and thermoregulations

RIELLOtech Clima Comfort
RIELLOtech Clima Mix



- RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech CLIMA COMFORT/MIX	360	350	165	3
CLIMA COMFORT	360	350	165	3
CLIMA MIX	120	180	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech is an electronic control panel for the climatic management of a furnace with single-stage, two-stage or modulating burner. Ideal for complex systems as well as for the management of simpler installations. The range includes:

RIELLOtech Climate Comfort: it is the climatic regulation of even complex systems in single- or multi-family installations. It manages modulating burners, cascades of boilers, solar systems and the integration of several types of heat generators. The system side manages a mixed area (expandable to 2 with a special dedicated kit), one direct and the production of domestic hot water. Clima Comfort also offers the possibility to control modulating circulators (0-10V and PWM) with the specific expansion.

RIELLOtech Clima Mix: this is the system regulation that can manage 1 mixed area expandable to 2 with a special kit.
The RIELLOtech Clima Comfort versions include a boiler probe and an external probe.
All RIELLOtech Clima regulations can be integrated via BUS.
RIELLOtech features IP X4D protection level.

- It is possible to personalise the control panel through programmable inputs and outputs (e.g. 0/10V input, generator anti-condensation pump)
- Frost protection, anti-blocking pump function and anti-legionnaires' disease protection
- Energy saving thanks to the system thermoregulation according to the external weather conditions
- Easy to program thanks to a user-friendly menu and a large display
- Quick to install: terminals and connectors, identifiable through silk-screen prints, are included in the supply
- Great flexibility of installation: they can be horizontally or vertically installed on the boilers or wall-mounted by means of a specific kit
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

TECHNICAL DATA

Description	Functional description	Installation type	Notes	Code
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation	Horizontal	(1)	**4031064**
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation	Vertical	(1)	**4031069**
RIELLOtech CLIMA MIX	Electrical panel with zone regulator	Vertical		**20010428**
CLIMA DISPLAY	User interface for adjustments CLIMA COMFORT			**20010906**
CLIMA MIX	Zone regulator			**20010904**
CLIMA COMFORT	Climatic regulation			**20010903**

(1) Supplied as standard 1 immersion probe and 1 external sensor.

Deductible products only within a system refurbishment and building energy redevelopment. Therefore, please always check the specific procedures for accessing the incentive.

ACCESSORIES

Description	Code
Programmable expansion kit (CLIMA COMFORT)	**20102310**
Programmable expansion kit (CLIMA MIX)	**20011194**
Relay kit for modulating burner (CLIMA COMFORT)	**20013035**
RIELLOtech wall-hung installation kit (to be used only for vertical installation)	**20010056**
RC3 remote control kit	**20155028**
MODBUS connection kit	**20185704**
Indoor probe	**20012456**
NTC immersion probe (10kΩ) - 5 metres	**20010068**
NTC DHW-tank probe (10kΩ) - 5 metres	**20010103**
Solar collector probe NTC (10 k ohm)	**4031913**
NTC O-ring probe (10kΩ)	**20168680**
NTC external probe (10 k ohm)	**20164232**

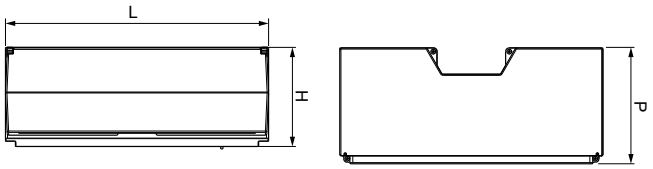
APPLICATION CHART

Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1st mixed zone	2nd mixed zone
RIELLOtech CLIMA COMFORT *								With specific additional mixed zone control kit
RIELLOtech CLIMA MIX								With additional mixed zone control kit
Compulsory accessories		1 NTC clip probe		2 NTC DHW-tank probes and 1 NTC immersion probe solar collector	1 NTC DHW-tank probe		1 NTC clip probe or 1 NTC immersion probe	1 NTC clip probe or 1 NTC immersion probe
Optional accessories			1 NTC immersion probe (only for biomass boiler)				1 indoor probe or RC3 remote control	1 indoor probe or RC3 remote control

* For modulating burner adjustment, order the relay kit accessory.

Control panels and thermoregulations

RIELLO 5000 CL-M



- RIELLO 5000 CL-M range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLO 5000 CL-M	165	451	207	3

The RIELLO 5000 CL-M control panel is designed for climatic management of a one or two-circuit boiler equipped with a modulating, single or two-stage ventilated burner, built-in or free-standing boiler and pump heating system circulation.
Two to four boilers with CL-M control panels can be connected to the cascade control system.
At the same time, up to 6 additional control modules can be connected to each control panel for a separate heating circuit or a continuous flow heat exchanger of the DHW system (modules are supplied as accessories, see section "Accessories".
Installation on the side of the boiler is allowed, using the support bracket available as an accessory.

TECHNICAL DATA

Description	Functional description	Installation type	Notes	Code
RIELLO 5000 CL-M	Control panel with climatic regulation	Horizontal	(1)	**20020036**

(1) Supplied as standard 1 immersion probe and 1 external sensor.

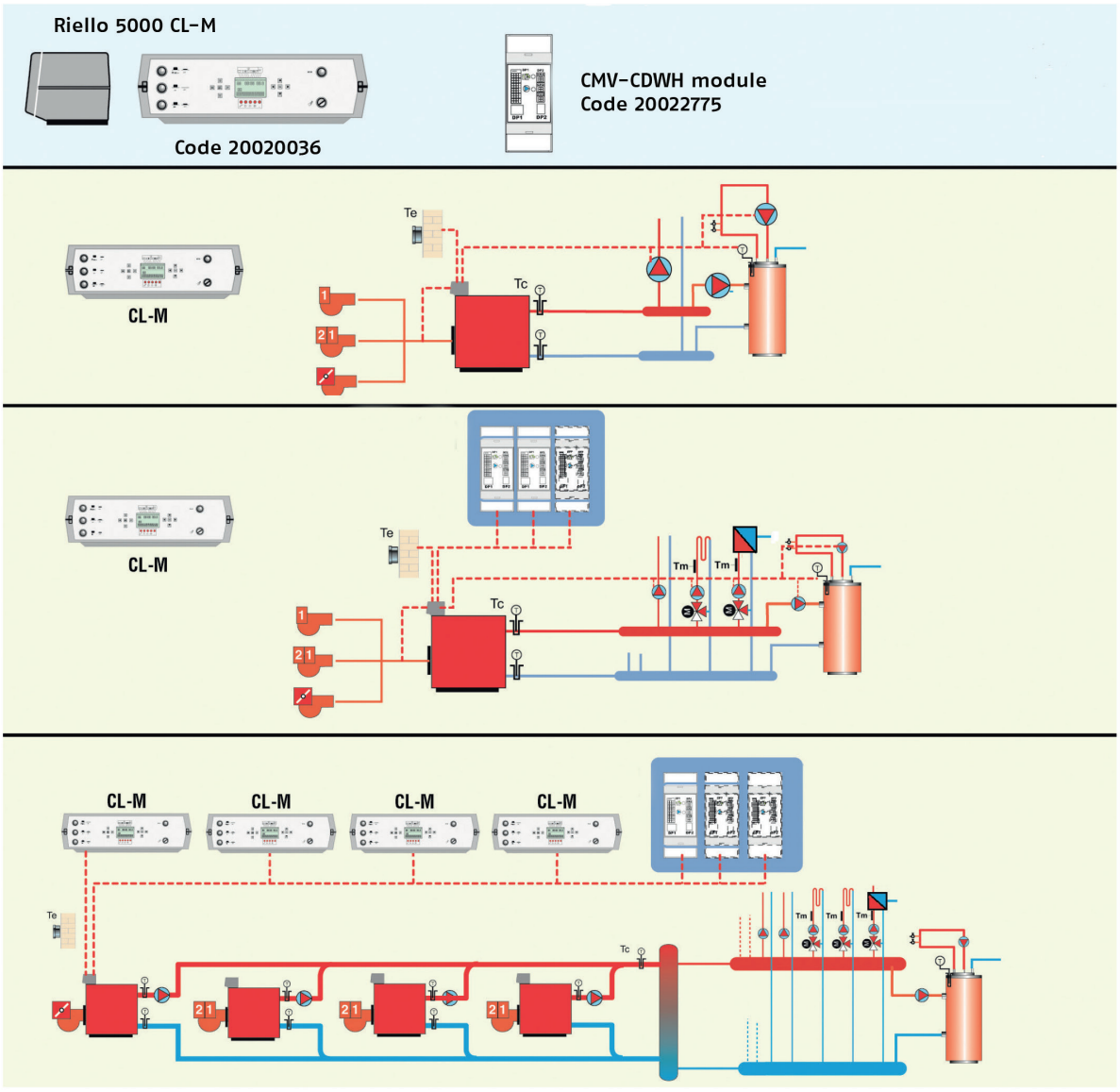
ACCESSORIES

Drawing	Description	Code
	CDHW accessory module	**20022775**
	Lateral adapter kit	**4031059**

APPLICATION CHART

Description	Burner	Boiler in cascade	Solar system	DHW storage cylinder	Direct zone	1st mixed zone	2nd mixed zone
RIELLO 5000 CL-M							With specific additional mixed zone control kit
Compulsory accessories		1 NTC clip probe	2 NTC DHW-tank probes and 1 NTC immersion probe solar collector	1 NTC DHW-tank probe		1 CDHW	1 CDHW

* For modulating burner adjustment, order the relay kit accessory.

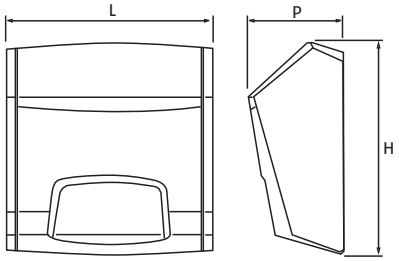


RECOMMENDATIONS FOR THE USE OF CONTROL PANELS WITH RIELLO BOILERS

Description	RIELLO 3500 SAT	RTQ	RTS	RTQ T (K)	TAU N
RIELLO 5000 CL-M	•	•	•	•	•

Control panels and thermoregulations

RIELLOtech Prime
RIELLOtech Prime ACS



- RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech Prime	360	350	165	3
RIELLOtech Prime ACS	360	350	165	3

RIELLOtech Prime is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit) and one direct zone. RIELLOtech Prime ACS is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit), the production of DHW and one direct zone.
IPX4D electrical protection.

- Easy to use and install
- Safety thermostat with manual-reset
- Over-temperature disposal function
- Adjustable anti-condensation function on heating and DHW production
- These control panels feature a wide internal space and allow maximum ease of connections
- These control panels are available as horizontal version; for the vertical installation you just have to rotate the front panel by 180°.

TECHNICAL DATA

Description	Type	Code
RIELLOtech Prime	Thermostatic control panel heating-only single stage (1) - horizontal installation (2)	**20010820**
RIELLOtech Prime ACS	Thermostatic control panel heating and DHW production single stage (1) - horizontal installation (2)	**20010437**

(1) Two stage burner controlled by kit code 4031067.
(2) For vertical installation turn the frontal panel by 180°.

ACCESSORIES

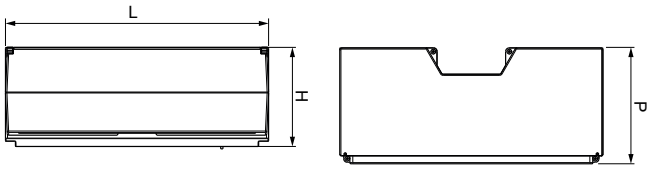
Description	Code
Two stage burner management kit (to install in Riellotech Prime and Riellotech Prime ACS)	**4031067**
RIELLOtech wall-hung installation kit (to be used only for vertical installation models)	**20010056**

APPLICATION CHART

Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1st mixed zone	2nd mixed zone
RIELLOtech PRIME	 Two-stage with special kit							
RIELLOtech PRIME ACS	 Two-stage with special kit							
Compulsory accessories					1 storage tank probe NTC			

Control panels and thermoregulations

RIELLO 5000 TMR2



- RIELLO 5000 TMR2 range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLO 5000 TMR2	165	451	207	3

RIELLO 5000 TMR2 is the thermostatic product line for the control of 1-stage and 2-stage burners, the production of DHW and one direct zone. IPX4D electrical protection.
- Easy to use and install
- Safety thermostat with manual-reset
- Over-temperature disposal function
- Adjustable anti-condensation function on heating and DHW production
- These control panels feature a wide internal space and allow maximum ease of connections
- These control panels are available as horizontal installation.

TECHNICAL DATA

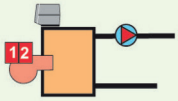
Description	Functional description	Installation type	Code
RIELLO 5000 TMR2	Control panel with climatic regulation	Horizontal	**07200123**

APPLICATION CHART

Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1st mixed zone	2nd mixed zone
RIELLO 5000 TMR2	 Two-stage with special kit							
Compulsory accessories					1 storage tank probe NTC			

Riello 5000 TMR2

Code 7200123

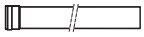
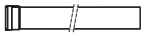
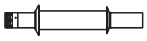
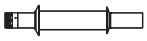


RECOMMENDATIONS FOR THE USE OF CONTROL PANELS WITH RIELLO BOILERS

Description	RIELLO 3500 SAT	RTQ	RTS	RTQ T (K)
RIELLO 5000 TMR2	•	•	•	•

FLUE OPTIONS SYSTEM

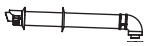
SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

Drawing	Description	Material (*)	Condexa Pro 57-70P	TAU UNIT 35-70	Notes	Code
	45° bend Ø80 mm	PP	•	•	(2)	**20137503**
	90° bend Ø80 mm	PP	•	•	(2)	**20137506**
	Extension Ø80 mm, L=500	PP	•	•	(2)	**20137508**
	Extension Ø80 mm L=1000	PP	•	•	(2)	**20137509**
	Extension Ø80 mm L=2000	PP	•	•	(2)	**20137511**
	Flexible extension 12.5 m with 8 spacers Ø80 mm	PP	•	•	(2)	**20132509**
	Horizontal terminal Ø80 mm	PP	•	•	(2)	**20137517**
	Air suction terminal Ø80 mm	PP	•	•	(2)	**20137515**
	T-junction kit Ø80 mm with support bracket	PP	•	•	(2)	**20132504**
	Pipe spacers in the flue gases pipe	PP	•	•		**20132505**
	Straight inspection manifold Ø80 mm	PP	•	•	(2)	**20132506**
	Flue cover Ø80 mm	PP	•	•	(2)	**20132508**
	Flue cover Ø80 for rigid/flexible system	PP	•	•	(2)	**20131271**
	Flue support shelf kit	Met	•	•		**20145888**
	Rigid-flexible fitting Ø80 mm	PP	•	•	(2)	**20132510**
	Flexible-flexible fitting Ø80 mm	PP	•	•	(2)	**20132511**
	Flexible-rigid-fitting Ø80 mm	PP	•	•	(2)	**20132512**
	Drain pipe kit	PP	•	•		**20132518**
	Ø80 mm T-junction kit	PP	•	•	(2)	**20132513**
	Ø80 mm T-junction closure kit for condensate drain	Met	•	•	(2)	**20132514**
	Plume kit Ø80 mm	PP	•	•	(2)	**20197690**

(*) PP material: colour may change over time because of sun's rays exposure.
(2) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

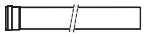
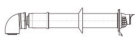
Ø60/100 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 57-70P	Notes	Code
	Double adaptor Ø80/80 mm - concentric Ø60/100 mm	PP/Met	•	(2)(3)	**20137535**
	Wall collector Ø60/100 mm	PP/PPu	•	(2)(3)	**20132018**

(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
(3) Check the maximum equivalent lengths by consulting the technical data sheet and / or by contacting the pre-sales service.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

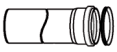
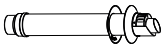
Ø80/125 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 57-70P	TAU UNIT 35-70	Notes	Code
	Universal tile for sloping roofs	Nylon	•	•		**20132050**
	Element kit Ø80/125 mm connection to flue	PP	•	•	(2)	**20132520**
	45° bend Ø80/125 mm	PP/ABS	•	•	(2)	**20131054**
	90° bend Ø80/125 mm	PP/ABS	•	•	(2)	**20131083**
	90° bend with inspection Ø80/125 mm	PP/ABS	•	•	(2)	**20131095**
	Double adaptor Ø80/80 mm - concentric Ø80/125 mm	PP/ABS	•	•	(2)	**20131055**
	Extension Ø80/125 mm, L=500 mm	PP/ABS	•	•	(2)	**20131084**
	Extension Ø80/125 mm, L=1000 mm	PP/ABS	•	•	(2)	**20131085**
	Vertical terminal Ø80/125 mm	PP/ABS	•	•	(2)	**20131113**
	Wall discharge terminal Ø80/125 mm	PP/ABS	•	•	(2)	**20131098**
	Plume kit Ø80 mm	PP	•	•	(2)	**20197690**

(*) PP material: colour may change over time because of sun's rays exposure.
(2) H1 pressure level according to EN 1443.
NOTE: please, refer to boiler installation manual for maximum flue line length.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

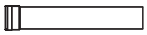
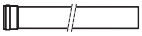
SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø110 mm

Drawing	Description	Material (*)	Condexa Pro 90-135	TAU UNIT 100-140	Notes	Code
	45° bend Ø110 mm	PP	•	•	(2)	**20131205**
	90° bend Ø110 mm with inspection	PP	•	•	(2)	**20131202**
	90° bend Ø110 mm	PP	•	•	(2)	**20131208**
	Extension Ø110 mm, L=1000 mm	PP	•	•	(2)	**20131210**
	Ø110 T-junction kit with condensate drain	PP	•	•	(2)	**20131218**
	Ø110 mm T-junction kit with stack support condensate drain	PP	•	•	(2)	**20131221**
	Ø110 mm T-junction kit	PP	•	•	(2)	**20131222**
	Flue cover Ø110 mm with terminal	PP	•	•	(2)	**20131225**
	Horizontal terminal Ø110 mm	PP	•	•	(2)	**20197688**
	Air suction terminal Ø110 mm	PP	•	•	(2)	**20197689**

(*) PP material: colour may change over time because of sun's rays exposure.
(2) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

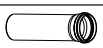
Ø110/160 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 90-135	TAU UNIT 100-140	Notes	Code
	Tile Ø160 mm 25-45% slope	-	•	•		**20131145**
	Adaptor Ø80/Ø110 mm	PP		•	(2)	**20131238**
	Extension Ø110 mm, L=145 mm	PP		•	(2)	**20144853**
	Extension Ø110/160 mm, L=500 mm	PP/Met	•	•	(2)	**20131046**
	Extension Ø110/160 mm, L=1000 mm	PP/Met	•	•	(2)	**20131050**
	45° bend Ø110/160 mm	PP/Met	•	•	(2)	**20131036**
	90° bend Ø110/160 mm	PP/Met	•	•	(2)	**20131040**
	90° bend with inspection Ø110/160 mm	PP/Met	•	•	(2)	**20131147**
	Double adaptor Ø110/110 mm - concentric Ø110/160 mm	PP/Met	•	•	(2)	**20131059**
	Ø110/160 concentric horizontal flue terminal	PP/Met	•	•	(2)	**20131149**
	Outlet on roof Ø110/160 mm	PP/PE	•	•	(2)	**20147403**

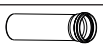
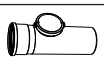
(*) PP material: colour may change over time because of sun's rays exposure.
(2) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

PLASTIC FLUE SYSTEM Ø160 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160 mm	PP	**20062445**
	45° bend Ø160 mm	PP	**20032646**
	90° bend Ø160 mm	PP	**20032644**
	Inspection bend Ø160 mm	PP	**20062446**
	Extention Ø160 mm, L=500 mm	PP	**20060940**
	Extention Ø160 mm, L =1000 mm	PP	**20060941**
	Extention Ø160 mm, L=2000 mm	PP	**20060942**
	Inspection extention Ø160 mm	PP	**20060945**
	Chimney support Ø160 mm	PP	**20062703**
	Chimney cover Ø160 mm (stainless steel)	PP	**20060953**
	Condensate drain pipe Ø160 mm	PP	**20062447**
	T connection Ø160 mm with condensate drain and chimney support	PP	**20063419**
	T connection Ø160 mm with condensate drain	PP	**20062448**

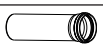
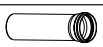
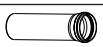
PLASTIC FLUE SYSTEM Ø200 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Concentric adapter Ø200-160 mm	PP	**20062567**
	30° bend Ø200 mm	PP	**20062539**
	45° bend Ø200 mm	PP	**20062542**
	90° bend Ø200 mm	PP	**20062543**
	Inspection bend Ø200 mm	PP	**20062545**
	Extention Ø200 mm L =500 mm	PP	**20062527**
	Extention Ø200 mm L =1000 mm	PP	**20062530**
	Extention Ø200 mm L =2000 mm	PP	**20062532**
	Inspection extention Ø200 mm	PP	**20062534**
	Chimney support Ø200 mm	PP	**20062548**
	Chimney cover Ø200 mm (stainless steel)	PP	**20062547**
	Condensate drain pipe Ø200 mm	PP	**20062537**
	T connection Ø200 mm with condensate drain and chimney support	PP	**20063420**
	T connection Ø200 mm with condensate drain	PP	**20062550**

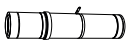
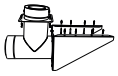
PLASTIC FLUE SYSTEM Ø250 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø250-160 mm	PP	**20062606**
	Concentric adapter Ø250-200 mm	PP	**20062607**
	Eccentric adapter Ø250-200 mm	PP	**20132393**
	30° bend Ø250 mm	PP	**20062593**
	45° bend Ø250 mm	PP	**20062594**
	90° bend Ø250 mm	PP	**20062595**
	Inspection bend Ø250 mm	PP	**20062598**
	Extention Ø250 mm, L=500 mm	PP	**20062576**
	Extention Ø250 mm, L=1000 mm	PP	**20062577**
	Extention Ø250 mm, L=2000 mm	PP	**20062578**
	Inspection extention Ø250 mm	PP	**20062591**
	Chimney support Ø250 mm	PP	**20062600**
	Chimney cover Ø250 mm (stainless steel)	PP	**20062599**
	Condensate drain pipe Ø250 mm	PP	**20062592**
	T connection Ø250 mm with condensate drain and chimney support	PP	**20063421**
	T connection Ø250 mm with condensate drain	PP	**20062601**

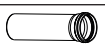
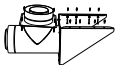
PLASTIC FLUE SYSTEM Ø300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300-160 mm	PP	**20158581**
	Eccentric adapter Ø300-250 mm	PP	**20158580**
	45° bend Ø300 mm	PP	**20145293**
	90° bend Ø300 mm	PP	**20145294**
	Inspection bend Ø300 mm	PP	**20158567**
	Extention Ø300 mm, L=500 mm	PP	**20145292**
	Extention Ø300 mm, L=1000 mm	PP	**20145295**
	Extention Ø300 mm, L=2000 mm	PP	**20145296**
	Inspection extention Ø300 mm	PP	**20145290**
	Chimney support Ø300 mm	PP	**20158569**
	Condensate drain pipe Ø300 mm	PP	**20158566**
	T connection Ø300 mm with condensate drain and chimney support	PP	**20158572**
	T connection Ø300 mm with condensate drain	PP	**20158571**

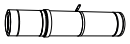
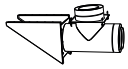
DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø160-225 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160-225 mm	PP/Met	**20062658**
	45° bend Ø160-225 mm	PP/Met	**20062659**
	90° bend Ø160-225 mm	PP/Met	**20062660**
	Extention Ø160-225 mm, L=500 mm	PP/Met	**20062655**
	Extention Ø160-225 mm, L=1000 mm	PP/Met	**20062656**
	Inspection extention Ø160-225 mm, L=1000 mm	PP/Met	**20062657**
	Pipe for terminal Ø160-225 mm	PP/Met	**20062662**
	Terminal Ø160-225 mm	PP/Met	**20062663**
	Chimney support Ø160-225 mm	PP/Met	**20062661**

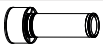
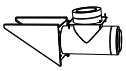
DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø200-300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø200-300 mm	PP/Met	**20062669**
	45° bend Ø200-300 mm	PP/Met	**20062670**
	90° bend Ø200-300 mm	PP/Met	**20062671**
	Extention Ø200-300 mm, L=500 mm	PP/Met	**20062666**
	Extention Ø200-300 mm, L=1000 mm	PP/Met	**20062667**
	Inspection extention Ø200-300 mm	PP/Met	**20062668**
	Pipe for terminal Ø200-300 mm	PP/Met	**20062673**
	Terminal Ø200-300 mm	PP/Met	**20062674**
	Chimney support Ø200-300 mm	PP/Met	**20062672**

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø250-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	45° bend Ø250-350 mm	PP/Met	**20062689**
	Extention Ø250-350 mm, L=500 mm	PP/Met	**20062676**
	Extention Ø250-350 mm, L=1000 mm	PP/Met	**20062677**
	Inspection extention Ø250-350 mm	PP/Met	**20062688**
	Pipe for terminal Ø250-350 mm	PP/Met	**20062691**
	Terminal Ø250-350 mm	PP/Met	**20062692**
	Chimney support Ø250-350 mm	PP/Met	**20062690**

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø300-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300/350 mm - 250/350 mm	PP/Met	**20158598**
	45° bend Ø300-350 mm	PP/Met	**20158600**
	Extention Ø300-350 mm, L=500 mm	PP/Met	**20158601**
	Extention Ø300-350 mm, L=1000 mm	PP/Met	**20158602**
	Inspection extention Ø300-350 mm	PP/Met	**20158603**
	Pipe for terminal Ø300-350 mm	PP/Met	**20158604**
	Terminal Ø300-350 mm	PP/Met	**20158605**
	Chimney support Ø300-350 mm	PP/Met	**20158606**
	Boiler cnnection Ø300-350 mm (STEEL PRO POWER)	PP/Met	**20158607**
	Condensate drain pipe Ø300-350 mm	PP/Met	**20158594**

FLUE SYSTEM ACCESSORIES

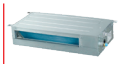
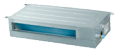
Drawing	Description	Code
	Siphon Long John	**20062443**
	Tool Ø160 mm	**20062510**
	Tool Ø200 mm	**20062563**
	Tool Ø250 mm	**20062604**
	Spacers Ø300-500 mm	**20158577**
	Spacers Ø160 mm	**20062444**
	Spacers Ø160 mm (5pz)	**20060948**
	Spacers Ø200 mm	**20062564**
	Spacers Ø225 mm	**20062664**
	Spacers Ø250 mm	**20062605**
	Grid Ø160 mm	**20062513**
	Grid Ø200 mm	**20062575**
	Grid Ø250 mm	**20062636**
	Grid Ø300 mm	**20158576**
	Wall cover Ø160 mm	**20062512**
	Wall cover Ø200 mm	**20062574**
	Wall cover Ø225 mm	**20062665**

Drawing	Description	Code
	Wall cover Ø250 mm	**20062635**
	Wall cover Ø300 mm	**20062675**
	Wall cover Ø350 mm	**20062693**
	Wall feeder Ø160-225 mm	**20062449**
	Wall feeder Ø200-300 mm	**20062556**
	Wall feeder Ø250-350 mm	**20062602**

AIR CONDITIONING

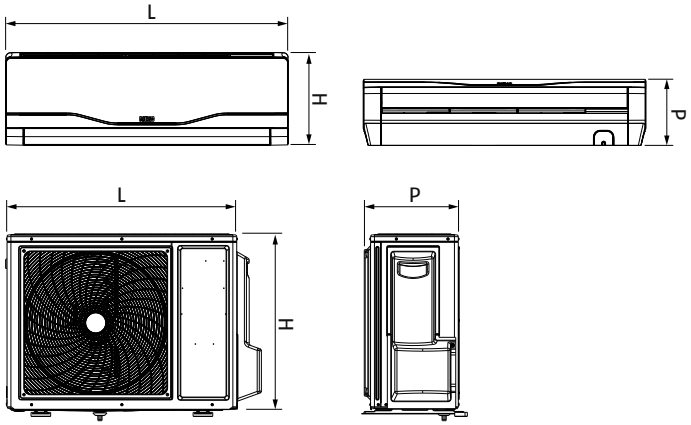
AIR CONDITIONERS

AIR CONDITIONERS FOR SMALL- AND MEDIUM-SIZED ROOMS

	WALL-MOUNTED	CEILING/FLOOR	CASSETTE	DUCTED
MONO INVERTER	 AARIA MONO PLUS AMW AARIA AMW 25 PLUS SET AARIA AMW 35 PLUS SET AARIA AMW 50 PLUS SET page 418	 AARIA MONO PLUS AMS AARIA AMS 35 P SET AARIA AMS 50 P SET page 420	 AARIA MONO PLUS AMK AARIA AMK 35 P SET AARIA AMK 50 P SET page 423	 AARIA MONO PLUS AMD AARIA AMD 35 P SET AARIA AMD 50 P SET page 425
		 AARIA MONO PLUS AMC AARIA AMC 25 P SET AARIA AMC 35 P SET AARIA AMC 42 P SET page 421		
	 AARIA START AARIA START 25 AARIA START 35 AARIA START 50 AARIA START 70 page 426			
MULTI INVERTER	 AARIA MULTI WALL-MOUNTED AMW 20 P AMW 25 P AMW 35 P AMW 50 P AMW 70 P page 428	 AARIA MULTI CEILING/FLOOR AMS 35 P AMS 50 P AMS 70 P page 428	 AARIA MULTI CASSETTE AMK 25 P AMK 35 P AMK 50 P AMK 70 P page 428	 AARIA MULTI DUCTED AMD 25 PA AMD 35 PA AMD 50 PA AMD 70 PA AMD 70 PB page 428
		 AARIA MULTI CONSOLE AMC 25 P AMC 35 P AMC 42 P page 428		
MONOBLOC		 AARIA ONE INVERTER AARIA ONE INVERTER page 431		

Wall-mounted mono inverter air conditioners

AARIA MONO PLUS-AMW



ERP

- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- High energy efficiency class A+++/A++, for limited consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 P	Indoor	280	855	200	10,0
AARIA MONO 25 PLUS	Outdoor	550	800	280	29,0
AMW 35 P	Indoor	280	855	200	10,0
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMW 50 P	Indoor	322	997	230	13,0
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS air conditioners, for installation on a wall, the ideal Riello solutions for small and medium sized homes, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.
Outdoor is unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation.
AARIA MONO PLUS range has three models from 2.5 kW to 5.0 kW.
Using the infra-red remote control that is supplied it is possible to manage all the unit's function.
The AAARIA MONO PLUS air conditioners can be equipped with an optional Wi-Fi kit, for complete remote management via Dedicated APP RiCLOUD AC.

- Indoor unit equipped with a hidden LED DISPLAY
- SMART mode for automatic operation
- SLEEP function for maximum night comfort
- QUIET function for ultra silent operation
- ANTIFREEZE function to start the unit when the internal temperature falls below 10 °C
- AUTORESTART function in case of power failure
- Outdoor unit complete with attachment covers.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AMW 25 P	2.6	107	2.4	731	Indoor				A+++	A++	**20127839**
AARIA MONO 25 PLUS					Outdoor						**20151556**
AARIA AMW 25 PLUS SET						6.35	9.52	15/10			**20127854**
AMW 35 P	3.5	144	2.8	854	Indoor				A+++	A++	**20127841**
AARIA MONO 35 PLUS					Outdoor						**20151557**
AARIA AMW 35 PLUS SET						6.35	9.52	15/10			**20127858**
AMW 50 P	5.2	253	4.6	1401	Indoor				A++	A++	**20127842**
AARIA MONO 50 PLUS					Outdoor						**20151558**
AARIA AMW 50 PLUS SET						6.35	12.7	25/15			**20127859**

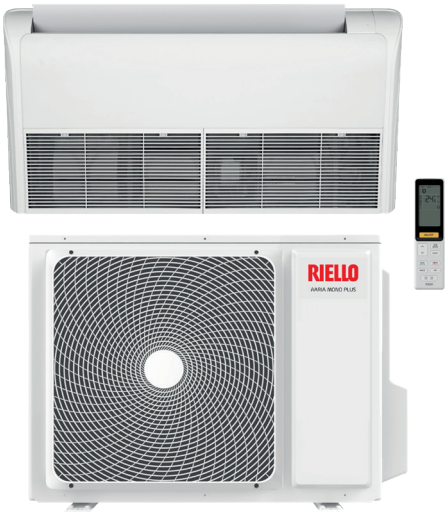
The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.
The performances refer to the following conditions:
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

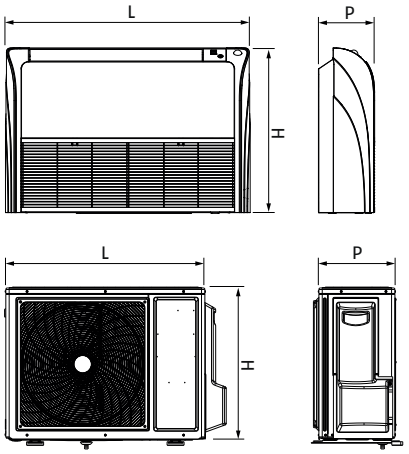
ACCESSORIES

Drawing	Description	Code
	Air conditioner Wi-Fi interface kit for model AMW P	**20194065**

Ceiling/floor-standing mono inverter air conditioners

AARIA MONO PLUS-AMS





ERP

- Ceiling/floor-standing Inverter Monosplit
- R32 heat pump, low environmental impact
- High A+++/A+ energy class, for low consumption
- With infrared control

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 35 P	Indoor	680	1000	230	26,0
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMS 50 P	Indoor	680	1000	230	26,0
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS-AMS air conditioners, with ceiling/floor-standing installation, are designed for medium and small spaces, to allow proposals with high energy yields and a functional design. The unit with low environmental impact R32 refrigerant achieves A+++/A+ energy efficiency classes.
The unit consists of an outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds. The AARIA MONO PLUS unit that can be paired is available in two output ratings from 3.5 kW to 5.0 kW. The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Indoor unit with on-board DISPLAY
- SMART mode for automatic operation
- QUIET function for ultra quiet operation
- AUTORESTART function in case of blackout
- Outdoor unit complete with connection covers
- Wired control on request.

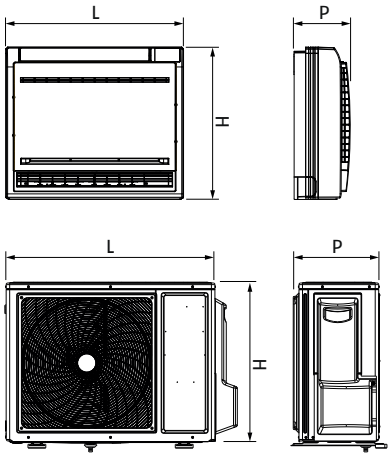
TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AMS 35 P	3.50	146	3.00	945	Indoor				A+++	A+	**20151552**
AARIA MONO 35 PLUS					Outdoor						**20151557**
AARIA AMS 35 P SET						6.35	9.52	15/10			**20161590**
AMS 50 P	5.00	240	4.40	1491	Indoor				A+++	A+	**20151553**
AARIA MONO 50 PLUS					Outdoor						**20151558**
AARIA AMS 50 P SET						6.35	12.7	25/15			**20161592**

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone.
Performance refers to the following conditions:
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Floor-standing mono inverter air conditioners

AARIA MONO PLUS-AMC



ERP

- Ceiling/floor-standing Inverter Monosplit
- R32 heat pump, low environmental impact
- High A++/A++ energy class, for low consumption
- With infrared control

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMC 25 P	Indoor	600	700	210	16,5
AARIA MONO 25 PLUS	Outdoor	550	800	280	29,0
AMC 35 P	Indoor	600	700	210	16,5
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMC 42 P	Indoor	600	700	210	16,5
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

The AARIA MONO PLUS-AMC air conditioners, for floor-standing installation, are suitable for medium and small environments, to allow proposals with high energy efficiency and functional design. The unit with low environmental impact R32 refrigerant achieves A++/A + energy efficiency classes. The unit consists of an outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds. The AARIA MONO PLUS unit that can be paired is available in three output ratings from 2.5 kW to 5.0 kW. The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Dual airflow management
- SMART mode for automatic operation
- DRY operation for dehumidification
- QUIET function for ultra quiet operation
- AUTORESTART function in case of blackout
- Outdoor unit complete with connection covers
- Infrared remote control.

TECHNICAL DATA

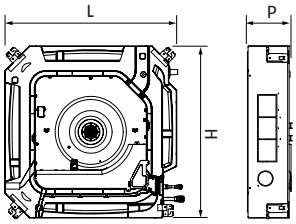
Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AMC 25 P	2.50	107	2.40	798	Indoor				A++	A+	**20151549**
AARIA MONO 25 PLUS					Outdoor						**20151556**
AARIA AMC P MONO 25 PLUS						6.35	9.52	15/10			**20161593**
AMC 35 P	3.50	157	2.90	962	Indoor				A++	A+	**20151550**
AARIA MONO 35 PLUS					Outdoor						**20151557**
AARIA AMC P MONO 35 PLUS						6.35	9.52	15/10			**20161594**
AMC 42 P	4.20	208	3.20	1115	Indoor				A++	A+	**20151551**
AARIA MONO 50 PLUS					Outdoor						**20151558**
AARIA AMC P MONO 50 PLUS						6.35	12.7	25/15			**20161595**

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone.
Performance refers to the following conditions:
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

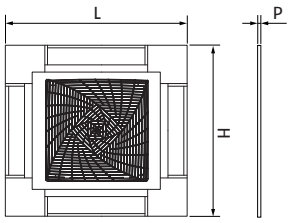
Cassette mono inverter air conditioners

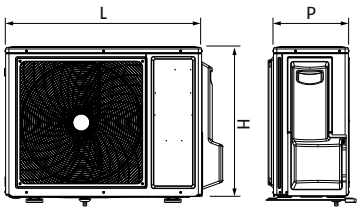
AARIA MONO PLUS-AMK

AMK P



PANNELLO 4 VIE





ERP

- Monosplit Inverter with cassettes
- R32 heat pump, low environmental impact
- With remote control
- Condensate drain pump on the unit

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 35 P	Indoor	570	570	260	19
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
4 WAY PANEL AMK 25-35-50 P	Panel	700	700	60	2
AMK 50 P	Indoor	570	570	260	19
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8
4 WAY PANEL AMK 25-35-50 P	Panel	700	700	60	2

AARIA MONO PLUS air conditioners, Cassette installation, are designed as a medium and small size residential environment, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.
The centrifugal fan of the indoor unit has three speeds that allow to reach low level of noise at super-low speed. The unit is ultra compact with a depth of 260 mm with a 700x700 mm cover panel. The outdoor unit has a high efficiency rotary compressor which reduces vibrations to a minimum and is characterized by perfect sound-proofing insulation..

- QUIET function for ultra silent operation
- DEHUMIDIFICATION operation
- AUTORESTART function in case of power failure
- POWER mode for fast temperature reaching
- Outdoor unit complete with attachment covers
- Infrared remote control as standard

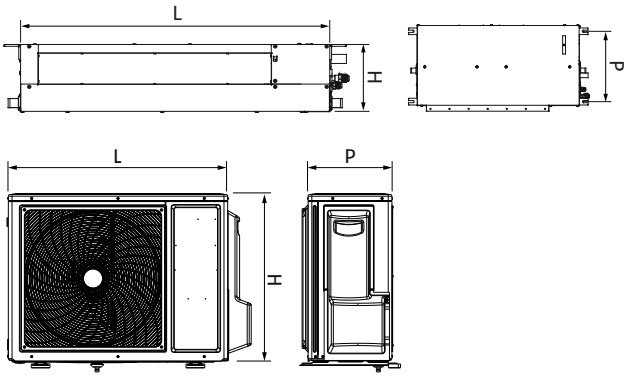
TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AMK 35 P	3.5	187	3	1025	Indoor				A++	A	**20151429**
AARIA MONO 35 PLUS					Outdoor						**20151557**
4 WAY PANEL AMK 25-35-50 P						6.35	9.52	15/10			**20151431**
AARIA AMK 35 P SET											**20161587**
AMK 50 P	5	264	4.5	1425	Indoor				A++	A	**20151430**
AARIA MONO 50 PLUS					Outdoor						**20151558**
4 WAY PANEL AMK 25-35-50 P						6.35	12.7	25/15			**20151431**
AARIA AMK 50 P SET											**20161589**

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.
The performances refer to the following conditions:
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

Duct-connected mono inverter air conditioners

AARIA MONO PLUS-AMD



ERP

- Monosplit Ducted inverter
- R32 heat pump, low environmental impact
- With wired remote control
- The indoor unit with 185 mm in height

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 35 PA	Indoor	185	850	420	15,5
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMD 50 PA	Indoor	185	1170	420	21,5
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS air conditioners, with Duct installation, are designed as a medium and small size residential environment, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.
AARIA MONO PLUS - AMD range has two models from 3.5 kW and 5.0 kW.
The fan of the indoor unit is ductable, with three speeds allowing to reach high levels of silence. With a height of 185 mm the unit is one of the most compact in its category. The outdoor unit has a high efficiency rotary compressor to minimize vibrations and is characterized by a perfect sound insulation.

- QUIET function for ultra silent operation
- DEHUMIDIFICATION operation
- AUTORESTART function in case of power failure
- POWER mode for fast temperature reaching
- Outdoor unit complete with attachment covers
- Standard wired control.

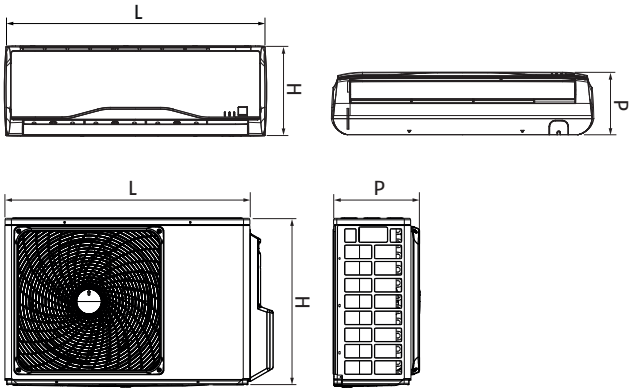
TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attach-ments mm	Gas attach-ments mm	L/H max m	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AMD 35 PA	3.5	187	3	1025	Indoor				A++	A	**20151424**
AARIA MONO 35 PLUS					Outdoor						**20151557**
AARIA AMD 35 PA SET						6.35	9.52	15/10			**20161585**
AMD 50 PA	5	264	4.5	1425	Indoor				A++	A	**20151425**
AARIA MONO 50 PLUS					Outdoor						**20151558**
AARIA AMD 50 PA SET						6.35	12.7	25/15			**20161586**

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.
The performances refer to the following conditions:
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

Wall-mounted mono inverter air conditioners

AARIA START



ERP

- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- Energy efficiency class A++/A+

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 ST	Indoor	280	820	195	8,8
AARIA START 25	Outdoor	540	780	245	27,0
AMW 35 ST	Indoor	280	820	195	8,8
AARIA START 35	Outdoor	540	780	245	28,0
AMW 50 ST	Indoor	318	1008	225	11,6
AARIA START 50	Outdoor	614	820	338	37,8
AMW 70 ST	Indoor	335	1125	240	14,0
AARIA START 70	Outdoor	697	890	353	51,0

The AARIA START air conditioners, for installation on a wall, the ideal Riello solutions for small and medium sized homes. The unit with the low environmental impact R32 refrigerant attains energy efficiency values equivalent to class A++/A+, thanks to the Inverter technology.
The AARIA START range has four models, from 2.6 kW up to 7.0 kW when cooling.
The fan of the 4-speed indoor wall unit allows you to reach high levels of silence, up to 20 dB(A), at an extremely ow speed. The outdoor unit has a high efficiency rotary compressor with sound-absorbing insulation.
Using the infra-red remote control that is supplied it is possible to manage all the unit's function.
The AARIA START air conditioners are equipped with an optional Wi-Fi kit, for complete management using a specific RiCLOUD AC APP.

- SMART mode for automatic operation
- SLEEP function for maximum night-time comfort
- QUIET function for ultra-silent operation
- AUTORESTART function if the power supply is interrupted
- Outdoor unit complete with connection covers
- Infra-red remote control supplied

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AMW 25 ST	2.6	147	2.4	839	Indoor				A++	A+	**20139544**
AARIA START 25					Outdoor						**20139542**
AARIA AMW 25 START SET						6.35	9.52	15/10			**20140092**
AMW 35 ST	3.6	186	3.2	1123	Indoor				A++	A+	**20139545**
AARIA START 35					Outdoor						**20139546**
AARIA AMW 35 START SET						6.35	9.52	15/10			**20140095**
AMW 50 ST	5.2	268	5.2	1819	Indoor				A++	A+	**20139547**
AARIA START 50					Outdoor						**20139548**
AARIA AMW 50 START SET						6.35	12.7	25/15			**20140096**
AMW 70 ST	7.0	350	5.6	1963	Indoor				A++	A+	**20139549**
AARIA START 70					Outdoor						**20139550**
AARIA AMW 70 START SET						6.35	12.7	25/15			**20140106**

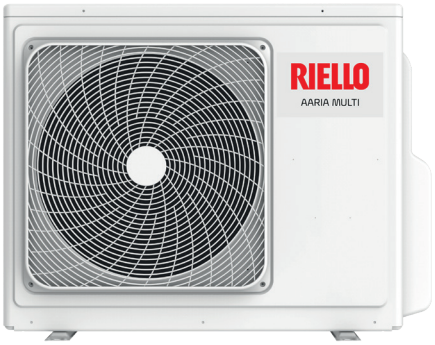
The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.
The performances refer to the following conditions:
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

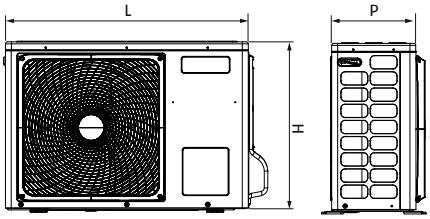
ACCESSORIES

Drawing	Description	Code
	Air conditioner Wi-Fi interface kit	**20194065**

Multi inverter air conditioners

AARIA MULTI PLUS





ERP

- Multisplit DC inverter air conditioner
- Multi range of up to 4 indoor units
- R32 heat pump with low environmental impact

Description	Unit type	H mm	L mm	P mm	Net weight kg
AARIA MULTI 250 P	Outdoor	553	800	275	36
AARIA MULTI 355 P	Outdoor	700	890	340	51
AARIA MULTI 370 P	Outdoor	700	890	340	54
AARIA MULTI 475 P	Outdoor	700	890	340	61
AARIA MULTI 485 P	Outdoor	700	890	340	61
AARIA MULTI 590 P	Outdoor	760	920	372	66

The AARIA MULTI PLUS range has been designed to serve several rooms with the use of just a single outdoor unit. The main feature is the flexibility of the choices of the indoor units with a wide selection of wall-mounted, duct-connected and cassettes.
AARIA MULTI PLUS is available in 5 models from 5 kW to 8.5 kW of delivered cooling capacity, providing state-of-the-art energy performances. The unit with the low environmental impact R32 refrigerant attains energy efficiency values equivalent to class A++/A+, thanks to the Inverter technology. The metal outdoor unit that is pre-coated to withstand the elements has attachment covers and a plastic front grille.
The high efficiency TWIN ROTARY compressor can reduce vibrations to a minimum.

- Condensing unit with up to 4 attachments for the indoor units
- Wide range of indoor units: wall, cassettes and duct-connected
- DC Inverter technology
- High SCOP and SEER
- Up to 100 m long pipes
- Operating limit of the outdoor unit: AARIA MULTI 250 P down to -15°C in heating mode and up to +43°C in cooling mode; AARIA MULTI 355 - 590 P down to -25°C in heating mode and up to +43°C in cooling mode
- Compact dimensions
- High energy efficiency class for low consumption.

TECHNICAL DATA

Description	Unit type	Indoor unit combination	Output in cooling (T=+35°C) kW	Output in heating (Pdesign T=-10°C) kW	Liquid attachments mm	Gas attachments mm	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AARIA MULTI 250 P	DUAL (1:2)	2x3,5	5.0	5.2	2x6.35	2x9.52	A++	A+	**20171566**
AARIA MULTI 355 P	TRIAL (1:3)	3x2,5	5.5	4.7	3x6.35	3x9.52	A++	A+	**20175226**
AARIA MULTI 370 P	TRIAL (1:3)	3x2,5	7.0	6.0	3x6.35	3x9.52	A++	A+	**20175227**
AARIA MULTI 475 P	QUADRI (1:4)	4x2,5	7.5	6.3	4x6.35	3x9.52+1x12.7	A++	A+	**20175228**
AARIA MULTI 485 P	QUADRI (1:4)	4x2,5	8.5	7.0	4x6.35	3x9.52+1x12.7	A++	A+	**20175229**
AARIA MULTI 590 P	PENTA (1:5)	5x2,5	9.0	7.2	5x6.35	3x9.52+2x12.7	A++	A+	**20175230**

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.
The performances refer to the following conditions:
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

TECHNICAL DATA OF WALL-MOUNT INDOOR UNITS

Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMW 20 P	2	2.3	25	230/1/50	600	280/855/200	6.35	9.52	**20148316**
AMW 25 P	2.5	2.8	25	230/1/50	600	280/855/200	6.35	9.52	**20127839**
AMW 35 P	3.5	3.8	25	230/1/50	650	280/855/200	6.35	9.52	**20127841**
AMW 50 P	5.2	6.0	40	230/1/50	900	332/997/230	6.35	12.70	**20127842**
AMW 70 P	7.0	8.1	45	230/1/50	1100	336/1115/243	9.52	15.88	**20148318**

TECHNICAL DATA OF CEILING/FLOOR INDOOR UNITS

Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMS 35 P	3.5	4.0	30	230/1/50	750	680/1000/230	6.35	9.52	**20151552**
AMS 50 P	5.0	5.8	30	230/1/50	880	680/1000/230	6.35	12.70	**20151553**
AMS 70 P	7.0	7.5	120	230/1/50	1250	680/1325/230	9.52	15.88	**20151554**

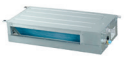
TECHNICAL DATA OF FLOOR INDOOR UNITS

Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMC 25 P	2.5	2.8	40	230/1/50	400	600/700/210	6.35	9.52	**20151549**
AMC 35 P	3.4	3.5	40	230/1/50	450	600/700/210	6.35	9.52	**20151550**
AMC 42 P	4.2	4.7	40	230/1/50	530	600/700/210	6.35	9.52	**20151551**

TECHNICAL DATA OF INDOOR CASSETTE UNITS

Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMK 25 P	2.6	3.2	33	230/1/50	510	260/570/570	6.35	9.52	**20151428**
4 WAY PANEL AMK 25-35-50 P						60/700/700			**20151431**
SET AMK 25 P									**20154918**
AMK 35 P	3.5	4.0	35	230/1/50	620	260/570/570	6.35	9.52	**20151429**
4 WAY PANEL AMK 25-35-50 P						60/700/700			**20151431**
SET AMK 35 P									**20154921**
AMK 50 P	5.0	5.5	38	230/1/50	700	260/570/570	6.35	12.70	**20151430**
4 WAY PANEL AMK 25-35-50 P						60/700/700			**20151431**
SET AMK 50 P									**20154920**
AMK 70 P	7.1	8.0	50	230/1/50	1260	204/840/840	9.52	15.88	**20151432**
4 WAY PANEL AMK 70 P						50/950/950			**20151433**
SET AMK 70 P									**20155179**

TECHNICAL DATA OF DUCTED INDOOR UNITS



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMD 25 PA	2.5	3.0	17	230/1/50	530	185/850/420	6.35	9.52	**20151422**
AMD 35 PA	3.5	4.0	28	230/1/50	600	185/850/420	6.35	9.52	**20151424**
AMD 50 PA	5.0	5.5	55	230/1/50	900	185/1170/420	6.35	12.70	**20151425**
AMD 70 PA	7.1	7.5	65	230/1/50	1000	185/1170/420	9.52	15.88	**20151426**
AMD 70 PB	7.1	8.0	200	230/1/50	1440	248/1100/700	9.52	15.88	**20151427**

ACCESSORIES

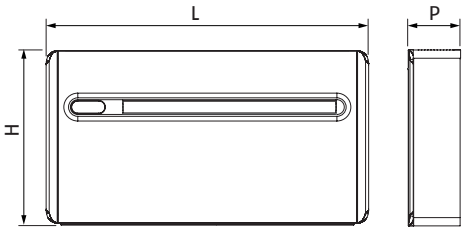
Drawing	Description	Code
	Air conditioner Wi-Fi interface kit for model AMW P	**20194065**
	IR remote control	**20192803**
	IR remote control receiver panel	**20160625**
	Wired remote control for AMK P models	**20187243**
	Centralised touch screen control N (compatible with models from AARIA MULTI 355 P)	**20133642**

The data and the efficiency classes are declared in conformity with EN 14825:
- Cooling: Input air temperature 27 °C Tb.s., 19 °C Tb.u.; Outdoor air temperature 35 °C Tb.s.
- Heating: Input air temperature 20 °C Tb.s., outdoor air temperature 7 °C Tb.s./6 °C Tb.u.

For system configurations, see the technical data sheet.

Monobloc air conditioners

AARIA ONE INVERTER



- Without outdoor unit
- Inverter monobloc with remote control
- Refrigerant R410A
- Heat pump operation

Description	H mm	L mm	P mm	Net weight kg
AARIA ONE INVERTER 25	555	1030	170	46,5

AARIA ONE INVERTER is the Riello proposal for air conditioners without outdoor unit, which eliminates any disturbance from the decorative point of view outside the house. In fact, it allows you to considerably reduce the aesthetic impact of the outdoor units, especially in all the cases in which it is necessary to preserve the artistic heritage, such as historic buildings, museums, villas, where you do not want to give up the summer air conditioning and winter heating, or for all applications in which you want to eliminate the presence of the outdoor unit.
The AARIA ONE INVERTER unit can be installed on any perimeter wall in floor-standing or hanging version, making 162 millimetres holes in the wall.
The aesthetic impact is reduced significantly also inside the house thanks to a depth of only 170 mm, smaller than conventional indoor climate control units. The cooling power delivered in comfort conditions is 2.04 kW and in heat pump mode is 2.1 kW. If necessary, the Power mode can be selected, which allows the desired temperature to be reached in the shortest time possible; once reached, AARIA ONE INVERTER will return to comfort mode operation.
The infrared remote control is supplied as standard, and there is also a control panel on board the machine that allows you to set any function, including the "lock" function that prevents any inappropriate use of the appliance.

- Inverter compressor
- Power operation
- Easy installation: only two holes
- Floor-standing or hanging installation
- Reduced depth
- Condensate tray constantly heated.

TECHNICAL DATA

Description	Cooling power kW	Thermal power kW	Cooling absorbed power W	Heating absorbed power W	(Max/min) sound pressure level dB(A) (1)	Energy efficiency class SEER	Energy efficiency class SCOP	Code
AARIA ONE INVERTER 25	2.04	2.1	630	638	40/31	A+	A	**20131342**

Performance refers to the following conditions:
- cooling: room air temperature 27°C, outdoor air temperature 35°C.
- heating: room air temperature 20°C, outdoor air temperature 7°C.

(1) Values referred to 2 m distance from the machine on the inside.

PROFESSIONAL AIR CONDITIONERS

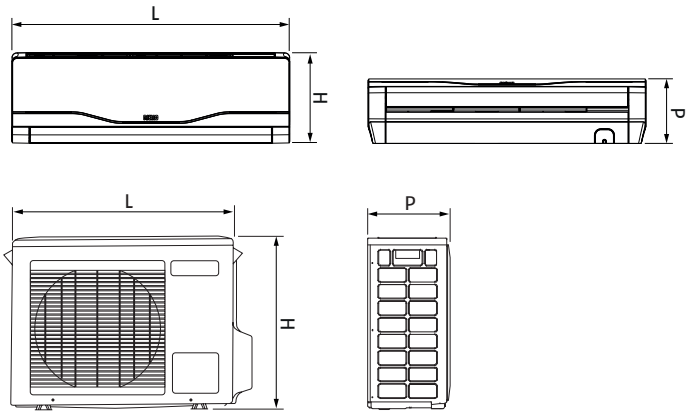
AIR CONDITIONERS FOR COMMERCIAL ENVIRONMENTS

MONO INVERTER MATCHING

WALL	CEILING/FLOOR	CASSETTE	DUCTED
			
AARIA PRO AMW 70 P	AARIA PRO AMS 70-170 P	AARIA PRO AMK 70-170 P	AARIA PRO AMD 70-170 P
page 434	page 435	page 437	page 439

Wall-hung mono inverter air conditioners

AARIA PRO P-AMW



ERP

- Wall-hung Inverter monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+++/A++ for low consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 70 P	Indoor	336	1115	243	16,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46

The AARIA PRO P-AMW series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7.3 to 12.9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.
The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps.
All the machines allow a connection for the introduction of fresh air into the indoor space.
The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

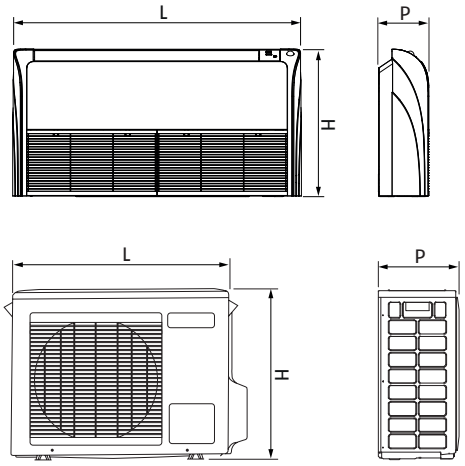
TECHNICAL DATA

Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
						kW	SEER	kW	SCOP	SEER	SCOP	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A+	**20153499**
AMW 70 P	Indoor	230/1/50								-	-	**20148318**
AARIA PRO P 70 M SET			9.52	15.88	25/15	7.0	7.1	8.0	4.0	-	-	**20166998**

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.
Performance refers to the following conditions:
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Ceiling/floor-standing mono inverter air conditioners

AARIA PRO P-AMS



ERP

- Ceiling/floor-standing Inverter Monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 70 P	Indoor	680	1000	230	26,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMS 100 P	Indoor	680	1325	230	33,5
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMS 140 P	Indoor	680	1650	230	43
AARIA PRO P 1140 T	Outdoor	1350	950	370	105

The AARIA PRO P-AMS series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7.3 to 12.9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.
The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency.
The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps. All the machines allow a connection for the introduction of fresh air into the indoor space.
The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

TECHNICAL DATA

Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
						kW	SEER	kW	SCOP	SEER	SCOP	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A	**20153499**
AMS 70 P	Indoor	230/1/50								-	-	**20151554**
AARIA PRO AMS P 70M SET			9.52	15.88	25/15	6.9	6.1	7.5	3.8	-	-	**20166939**
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	A	**20159411**
AMS 100 P	Indoor	230/1/50								-	-	**20159404**
AARIA PRO AMS P 100M SET			9.52	15.88	50/30	9.5	6.03	10.2	3.8	-	-	**20167018**
AARIA PRO P 1125 M	Outdoor	230/1/50										**20159412**
AMS 125 P	Indoor	230/1/50								-	-	**20159405**
AARIA PRO AMS P 125M SET			9.52	15.88	50/30	12	5.86	12.5	3.81			**20167019**
AARIA PRO P 1125 T	Outdoor	400/3/50										**20159413**
AMS 125 P	Indoor	230/1/50								-	-	**20159405**
AARIA PRO AMS P 125T SET			9.52	15.88	50/30	12	5.86	12.5	3.81			**20167020**
AARIA PRO P 1140 T	Outdoor	400/3/50										**20159414**
AMS 140 P	Indoor	230/1/50								-	-	**20159406**
AARIA PRO AMS P 140T SET			9.52	15.88	75/30	12.9	6.1	14.1	4.0			**20167021**

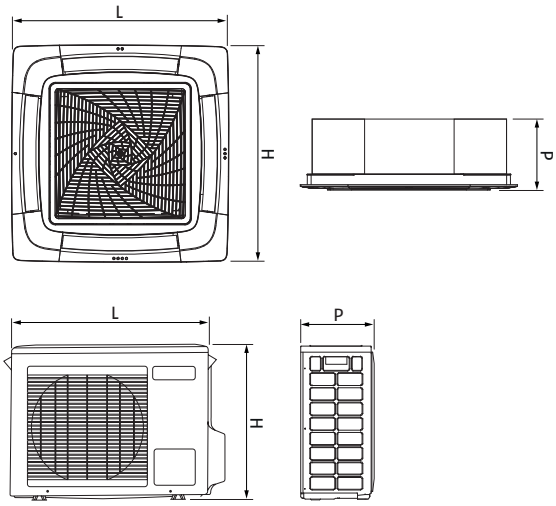
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.
Performance refers to the following conditions:
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Code
	Wired control	**20187243**

Mono inverter-case air conditioners

AARIA PRO P-AMK



ERP

- Monosplit Inverter cassette
- Heat pump in R32 with low environmental impact
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 70 P	Interna	840	840	204	27
AARIA PRO P 1070 M	Esterna	730	860	308	46
Cover panel		950	950	50	6,5
AMK 100 P	Interna	840	840	246	31
AARIA PRO P 1100 M	Esterna	760	920	372	60
Cover panel		950	950	50	6,5
AMK 125 P	Interna	840	840	288	32,0
AARIA PRO P 1125 M	Esterna	965	950	370	83
Cover panel		950	950	50	6,5
AMK 125 P	Interna	840	840	288	32,0
AARIA PRO P 1125 T	Esterna	965	950	370	85
Cover panel		950	950	50	6,5
AMK 140 P	Interna	840	840	288	32,0
AARIA PRO P 1140 T	Esterna	1350	950	370	105
Cover panel		950	950	50	6,5

The AARIA PRO P-AMK series is the ideal cassette solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.
AARIA PRO P offers cooling power ratings from 7.1 kW to 12.2 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1025 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The AMK-P indoor cassette units are designed for recessed ceiling installation and their dimensions are 840x840 mm.
The design features a plastic cover panel with central air intake and 4-way delivery, with individually orientable ventilation. The unit is complete with infrared control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Condensate pump on board of the unit
- Easy filter maintenance and accessibility
- Possible intake of additional air
- Infrared control.

TECHNICAL DATA

Description	Unit type	Electrical power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
						kW	SEER	kW	SCOP	SEER	SCOP	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A	**20153499**
AMK 70 P	Indoor	230/1/50								–	–	**20151432**
Cover panel										–	–	**20151433**
AARIA PRO AMK P 70M SET			9.52	15.88	25/15	7.1	6.1	8.0	3.8	–	–	**20167000**
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	A	**20159411**
AMK 100 P	Indoor	230/1/50								–	–	**20158940**
Cover panel										–	–	**20151433**
AARIA PRO AMK P 100M SET			9.52	15.88	50/30	9.0	5.7	10.1	3.8	–	–	**20167001**
AARIA PRO P 1125 M	Outdoor	230/1/50								–	–	**20159412**
AMK 125 P	Indoor	230/1/50								–	–	**20158941**
Cover panel										–	–	**20151433**
AARIA PRO AMK P 125M SET			9.52	15.88	50/30	12	5.9	12.3	3.7	–	–	**20167003**
AARIA PRO P 1125 T	Outdoor	400/3/50								–	–	**20159413**
AMK 125 P	Indoor	230/1/50								–	–	**20158941**
Cover panel										–	–	**20151433**
AARIA PRO AMK P 125T SET			9.52	15.88	50/30	12	5.9	12.3	3.7	–	–	**20167004**
AARIA PRO P 1140 T	Outdoor	400/3/50								–	–	**20159414**
AMK 140 P	Indoor	230/1/50								–	–	**20158942**
Cover panel										–	–	**20151433**
AARIA PRO AMK P 140T SET			9.52	15.88	75/30	12.2	5.1	14.3	3.7	–	–	**20167005**

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.
Performance refers to the following conditions:
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

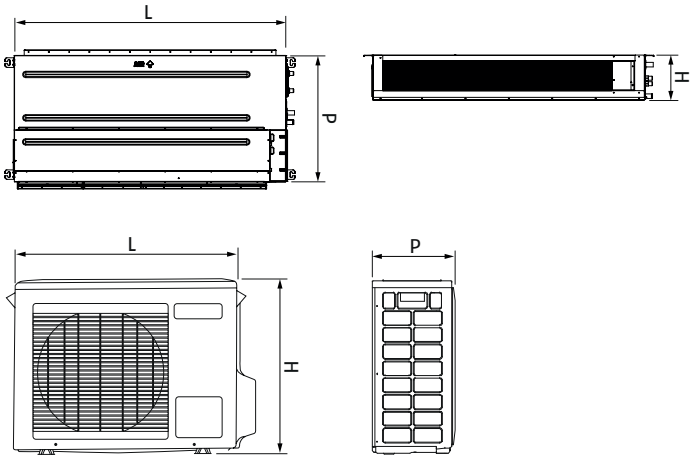
ACCESSORIES

Drawing	Description	Notes	Code
	IR remote control	(1)	**20192803**
	IR remote control receiver panel	(1)	**20160625**
	Wired control		**20187243**

(1) Already included as standard in AMK models.

Mono inverter air conditioners-ductable

AARIA PRO P-AMD



ERP

- Ducted Inverter Monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 70 PA	Indoor	185	1170	420	21,5
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMD 70 PB	Indoor	248	1100	700	36
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMD 100 PB	Indoor	248	1500	700	35
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMD 125 PB	Indoor	248	1500	700	52
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMD 125 PB	Indoor	248	1500	700	52
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMD 140 PB	Indoor	248	1500	700	52,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105
AMD 140 PC	Indoor	425	1350	490	61,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105

The AARIA PRO P-AMD series is the ideal ductable solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.
AARIA PRO P-AMD offers cooling power ratings from 7.1 kW to 13.5 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with seasonal efficiency among the highest on the market. AMD indoor units are preset for installations requiring air ducting.
The compact size and the versatility of the range, with heads up to 250 Pa, allow a high variety of installations. The offer is complete with the wired control.

- AUTORESTART function in case of blackout
- Easy filter maintenance and accessibility
- Wired control included

TECHNICAL DATA

Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Head Pa	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
							kW	SEER	kW	SCOP	SEER	SCOP	
AARIA PRO P 1070 M	Outdoor	230/1/50									A++	A	**20153499**
AMD 70 PA	Indoor	230/1/50									-	-	**20151426**
AARIA PRO AMD P 70M SET A			9.52	15.88	25/15	0/40	7.1	6.1	7.5	3.8	-	-	**20167006**
AARIA PRO P 1070 M	Outdoor	230/1/50									A++	A+	**20153499**
AMD 70 PB	Indoor	230/1/50									-	-	**20151427**
AARIA PRO AMD P 70M SET B			9.52	15.88	25/15	25/150	7.1	6.1	8.0	4.0	-	-	**20167008**
AARIA PRO P 1100 M	Outdoor	230/1/50									A+	A	**20159411**
AMD 100 PB	Indoor	230/1/50									-	-	**20158936**
AARIA PRO AMD P 100M SET B			9.52	15.88	50/30	25/150	9.5	5.6	10.2	3.8	-	-	**20167009**
AARIA PRO P 1125 M	Outdoor	230/1/50									-	-	**20159412**
AMD 125 PB	Indoor	230/1/50									-	-	**20158937**
AARIA PRO AMD P 125M SET B			9.52	15.88	50/30	25/150	11.9	5.6	12.2	3.8	-	-	**20167010**
AARIA PRO P 1125 M	Outdoor	230/1/50									-	-	**20159412**
AMD 125 PC	Indoor	230/1/50									-	-	**20159407**
AARIA PRO AMD P 125M SET C			9.52	15.88	50/30	40/250	12	5.8	12.2	3.7	-	-	**20167014**
AARIA PRO P 1125 T	Outdoor	400/3/50									-	-	**20159413**
AMD 125 PB	Indoor	230/1/50									-	-	**20158937**
AARIA PRO AMD P 125T SET B			9.52	15.88	50/30	25/150	11.9	5.6	12.2	3.6	-	-	**20167012**
AARIA PRO P 1125 T	Outdoor	400/3/50									-	-	**20159413**
AMD 125 PC	Indoor	230/1/50									-	-	**20159407**
AARIA PRO AMD P 125T SET C			9.52	15.88	50/30	40/250	12	5.8	12.2	3.7	-	-	**20167015**
AARIA PRO P 1140 T	Outdoor	400/3/50									-	-	**20159414**
AMD 140 PB	Indoor	230/1/50									-	-	**20158938**
AARIA PRO AMD P 140T SET B			9.52	15.88	75/30	25/150	12.5	6.1	14.5	3.8	-	-	**20167016**
AARIA PRO P 1140 T	Outdoor	400/3/50									-	-	**20159414**
AMD 140 PC	Indoor	230/1/50									-	-	**20159408**
AARIA PRO AMD P 140T SET C			9.52	15.88	75/30	40/250	13.5	6.1	15	4	-	-	**20167017**

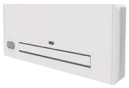
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.
Performance refers to the following conditions:
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Code
	IR remote control	**20192803**
	IR remote control receiver panel	**20160625**

TERMINAL UNITS

FAN COILS

	FAN COILS	FAN COILS WITH RADIANT PLATE
WALL-MOUNTED FAN COILS	 HELIOTERM DESIGN WALL 11-23 page 451 INSTALLATION VERTICAL R	
FAN COILS WITH PANELS	 HELIOTERM DESIGN INVERTER 11-46 page 451 INSTALLATION VERTICAL HORIZONTAL L R  HELIOTERM DESIGN S INVERTER 6-32 page 454 INSTALLATION VERTICAL L	 HELIOTERM DESIGN INVERTER PLUS 11-46 page 448 INSTALLATION VERTICAL L
FAN COILS FOR RECESSED INSTALLATION	 HELIOTERM IN INVERTER 11-46 page 465 INSTALLATION VERTICAL HORIZONTAL L R	 HELIOTERM IN INVERTER PLUS 11-46 page 465 INSTALLATION VERTICAL L
FAN COILS FOR RECESSED INSTALLATION IN BOX	 HELIOTERM INVISIBLE INVERTER 11-46 page 456 INSTALLATION VERTICAL L R  HELIOTERM INVISIBLE INVERTER CEILING 11-46 page 462 INSTALLATION HORIZONTAL L R	 HELIOTERM INVISIBLE INVERTER PLUS 11-46 page 459 INSTALLATION VERTICAL L

FAN COILS

COMMERCIAL

WALL-MOUNTED FAN COILS

NUOVO ACU
NUOVO ACU F

ACU 12-93

page 473

FAN COILS FOR RECESSED INSTALLATION/DUCTED

FCU N

FCU 09-43

page 470

"CASSETTE" FAN COILS

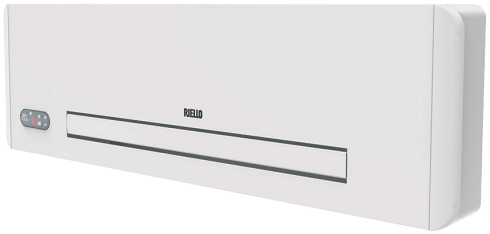
RK N HYDROLINE

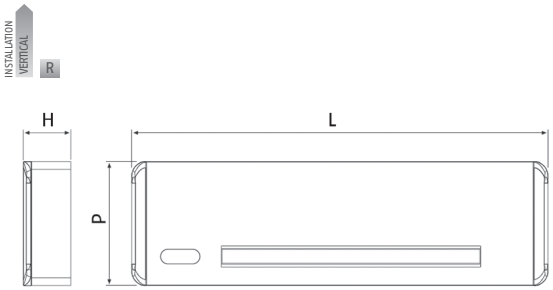
RK 24N-96N

page 468

Wall-mounted Fan coils

Design Wall





- Wall-mounted fan coils with Brushless Inverter motor

Description	H mm	L mm	P mm
DESIGN WALL 11	335	902	128
DESIGN WALL 17	335	1102	128
DESIGN WALL 23	335	1302	128

DESIGN WALL is the new Riello wall-mounted fan coils range suitable for residential and small commercial applications.
Thanks to the DC-Brushless motor, the DESIGN WALL fan coils are able to operate with an high modulation of air flow rate, from 0 up to 100%, in order to keep a comfortable temperature inside the room and to ensure the minimum-noise operation.
The range is characterized by an ultra slim aesthetic, with a depth of only 128 mm, to guarantee a perfect integration within the spaces.
Motorized flaps distribute air uniformly throughout the room.
The DESIGN WALL is available in two versions: equipped with remote control and on board touch display or in combination with control panel wall mounted TOP (Design Wall 11-23P).
Three models are available, with power from 1140 W up to 2340 W in cooling mode from 1610 W to 3250 W in heating mode.
All three are available in the two versions with remote control or control panel wall mounted TOP.

- Ultra slim design
- 128 mm of depth, also with 2-3 way valve on board
- Motorized flaps for a comfortable air distribution
- Touch display control

TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m^3/h	Sound pressure irradiation max-min (5) dB(A)	Notes	Code
WITH REMOTE CONTROL							
DESIGN WALL 11	1140	1610	2780	320	39.7-24.9		**20186360**
DESIGN WALL 17	1620	2350	4120	430	42.4-25.2		**20186361**
DESIGN WALL 23	2340	3250	5720	540	42.6-25.8		**20186362**
IN COMBINATION WITH CONTROL PANEL WALL MOUNTED TOP							
DESIGN WALL 11 P	1140	1610	2780	320	39.7-24.9	(A)	**20186363**
DESIGN WALL 17 P	1620	2350	4120	430	42.4-25.2	(A)	**20186364**
DESIGN WALL 23 P	2340	3250	5720	540	42.6-25.8	(A)	**20186365**

Performance refer to the following conditions:
(1) Room air temperature 27 °C Tb.s. and 19 °C Tb.u.
(2) Air temperature 20 °C Tb.s. and the same water flow rate achieved in cooling mode.
(3) Air temperature 20 °C Tb.s.
(4) Air flow rate measured with cleaned filters.
(5) According to UNI EN ISO 7779:2001.
(A) Mandatory accessory.

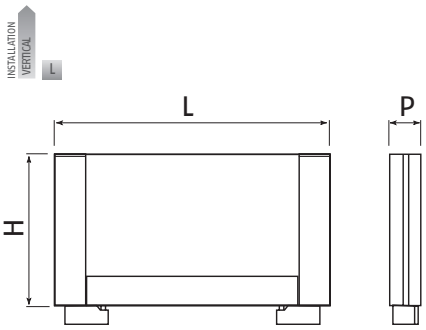
ACCESSORIES

Drawing	Decription	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Motorized 3 – ways valve kit.		**20099251**
	Motorized 2 – ways valve kit.		**20099250**
	2 - ways taps kit.		**20117090**

(1) Mandatory accessory for Design Wall 11P-23P.

Fan coil

Design Inverter Plus



- Tangential fan coils with radiant plate and Brushless inverter motor

Description	H mm	L mm	P mm
DESIGN INVERTER PLUS 11	580	760	130
DESIGN INVERTER PLUS 21	580	960	130
DESIGN INVERTER PLUS 33	580	1160	130
DESIGN INVERTER PLUS 40	580	1360	130
DESIGN INVERTER PLUS 46	580	1560	130

DESIGN INVERTER PLUS is the TOP of what Riello has to offer for fan coils. It is ideal for providing superior comfort in heating mode.
DESIGN INVERTER PLUS unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room.
In addition to the radiating effect, the entire range is equipped with the DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.
The DESIGN INVERTER PLUS very quickly heat and cool any area, with the possibility of selecting between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.
Thanks to the use of the DC Brushless motors, the DESIGN INVERTER PLUS save up to 50% on electricity compared to the fan coils with traditional motors (type ON/OFF). Just like the entire HELIOTERM range, the DESIGN INVERTER PLUS range has an ULTRA FLAT appearance, with a depth of just 13 cm and an automatic suction system.
The range is available in 5 models with outputs in cooling mode from 830 W up to 4560 W and in heating mode from 1150 W up to 4860 W.
The vast range of accessories and controls with touch DISPLAY support a wide range of applications. The versions that can be installed vertically with connections on the left.
The structure is made of galvanised sheet metal with sides made of ABS; the front delivery grille is made of aluminium.

- FULL FLAT with an automatic suction system
- Depth of 13 cm
- Terminal with radiating effect
- Easy to remove and clean the filters
- Touch Display commands

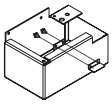
TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH RADIANT HEAT PLATE AND AUTOMATIC AIR VENTILATION									
DESIGN INVERTER PLUS 11B	1095	830	1515	1150	197	162	42.2-24.2	39.4-24.2	**20116258**
DESIGN INVERTER PLUS 21B	2120	1760	2885	2460	389	320	43.1-25.3	40.2-25.3	**20116260**
DESIGN INVERTER PLUS 33B	3310	2650	4140	3410	560	461	45.5-25.6	42.2-25.6	**20116261**
DESIGN INVERTER PLUS 40B	3875	3340	5015	4400	699	576	45.9-26.3	42.5-26.3	**20116263**
DESIGN INVERTER PLUS 46B	4560	3800	5910	5200	787	648	47.2-27.6	43.9-27.6	**20116264**

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode.
(3) Air temperature 20 °C
(4) Air temperature 20 °C; main fan in "off".
(5) Air flow rate measured with cleaned filters.
(6) According to UNI EN ISO 7779:2001
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Decription	Notes	Code
	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		**20116484**
	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		**20181365**
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20101063**
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		**4013453**
	2-ways taps kit.		**4013450**

Drawing	Decription	Notes	Code
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		**4013458**
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		**20069423**
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		**4013452**
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		**20069422**

(1) Both codes are necessary for the first fan coil.
(2) It must be installed 1 piece for every remoted fan coil.

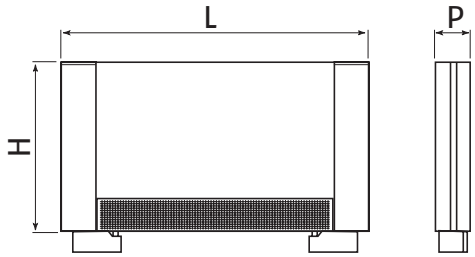
MATCHING ACCESSORIES

Drawing	Description	Size					Notes	Code
		11	21	33	40	46		
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus	•					(D)	**20116460**
			•				(D)	**20116461**
				•			(D)	**20116462**
					•		(D)	**20116463**
						•	(D)	**20116464**

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design Inverter



- Tangential fan coils
- Vertical or horizontal installation (with accessory)

Description	H mm	L mm	P mm
DESIGN INVERTER 11	580	760	130
DESIGN INVERTER 21	580	960	130
DESIGN INVERTER 33	580	1160	130
DESIGN INVERTER 40	580	1360	130
DESIGN INVERTER 46	580	1560	130

The DESIGN INVERTER are the Riello fan coils with DC Brushless Inverter motors, for a continuous variation from 0 to 100% of the air flow and consequently the heating and cooling capacity. The DESIGN INVERTER quickly heat and cool any area, and it is possible to choose between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the DESIGN INVERTER save up to 50% in electricity compared to the fan coils with traditional motors (ON/OFF). Just like the whole HELIOTERM family, the DESIGN INVERTER range is extremely thin, with a depth of just 13 cm.
The range comes in 5 models with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W. The wide range of accessories and e controls with a touch DISPLAY support a wide application range.
All versions can be installed vertically or horizontally (using a specific accessory), with connections on the left. The structure is made of zinc-coated sheet with ABS side parts; the front delivery grille is made of aluminium.

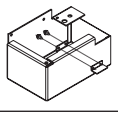
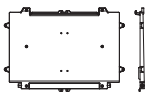
- Extremely thin
- Depth of 13 cm
- Units can be installed both vertically and horizontally
- Ease of installation with left connections
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL									
DESIGN INVERTER 11B	1095	830	1415	1090	197	162	42.2-24.2	39.4-24.2	**20116254**
DESIGN INVERTER 21B	2120	1760	2775	2350	389	320	43.1-25.3	40.2-25.3	**20116244**
DESIGN INVERTER 33B	3310	2650	3905	3190	560	461	45.5-25.6	42.2-25.6	**20116246**
DESIGN INVERTER 40B	3875	3340	4665	4100	699	576	45.9-26.3	42.5-26.3	**20116250**
DESIGN INVERTER 46B	4560	3800	5705	4860	787	648	47.2-27.6	43.9-27.6	**20116252**

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
(3) Air temperature 20 °C
(4) Air flow rate measured with cleaned filters
(5) According to UNI EN ISO 7779:2001
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Decription	Notes	Code
	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		**20116484**
	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		**20181365**
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20101063**
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		**4013453**
	2-ways taps kit.		**4013450**
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		**4013458**
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		**20069423**
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		**4013452**
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		**20069422**
	Condensate drain 11 for horizontal installation.	(3)	**20025185**
	Condensate drain 21 for horizontal installation.	(3)	**20025186**
	Condensate drain 33 for horizontal installation.	(3)	**20025187**
	Condensate drain 40 for horizontal installation.	(3)	**20025188**
	Condensate drain 46 for horizontal installation.	(3)	**20025189**

Drawing	Decription	Notes	Code
	Cables kit for right-side connections. It is compulsory for the connections reversal.		**20069415**

(1) Both codes are necessary for the first fan coil.
(2) It must be installed 1 piece for every remoted fan coil.
(3) The accessory is necessary for the horizontal installation of fan coil.

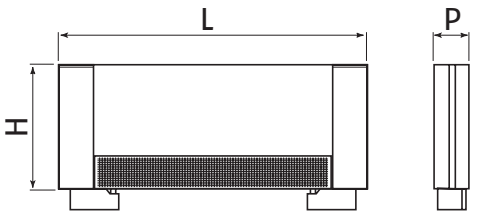
MATCHING ACCESSORIES

Drawing	Description	Size					Notes	Code
		11	21	33	40	46		
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus	•					(D)	**20116460**
			•				(D)	**20116461**
				•			(D)	**20116462**
					•		(D)	**20116463**
						•	(D)	**20116464**

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design S Inverter



- Tangential fan coils with Brushless inverter motor

Description	H mm	L mm	P mm
DESIGN INVERTER 6BS	379	760	130
DESIGN INVERTER 11BS	379	960	130
DESIGN INVERTER 17BS	379	1160	130
DESIGN INVERTER 23BS	379	1360	130
DESIGN INVERTER 32BS	379	1560	130

The DESIGN S INVERTER have a height of 379 mm and are lower than traditional fan coils. This feature allow their installation in limited spaces.
The whole range is provided with DC Brushless Inverter motors, allowing a continuous modulation from 0 to 100% of the air flow and consequently of the heating and cooling capacity, heating and cooling any room very rapidly.
Thanks to the DC Brushless motors, the DESIGN S INVERTER have an electrical consumption that is 50% lower than the fan coils with traditional motors. The DESIGN S INVERTER range features an ultra flat design, thanks to a depth of just 13 cm.
The structure is made of zinc-coated sheet with the frontal grille made of aluminium. The range comes in 5 models with a cooling capacity from 560 W to 3140 W and a heating capacity from 780 W till 3910 W.
The wide range of accessories and controls with a touch DISPLAY support a wide application range.

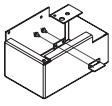
- Extremely thin
- Height 379 mm
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m³/h	Sound pressure irradiation max-min (5) dB(A)	Code
WHITE FAN COIL						
DESIGN INVERTER 6BS	560	780	1390	140	38.8-23.8	**20116265**
DESIGN INVERTER 11BS	1040	1570	2730	250	39.5-24.9	**20116267**
DESIGN INVERTER 17BS	1640	2380	4140	390	41.4-25.1	**20116271**
DESIGN INVERTER 23BS	2310	3250	5650	540	41.6-25.7	**20116272**
DESIGN INVERTER 32BS	3140	3910	6620	600	42.6-26.8	**20116273**

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
(3) Air temperature 20 °C
(4) Air flow rate measured with cleaned filters
(5) According to UNI EN ISO 7779:2001

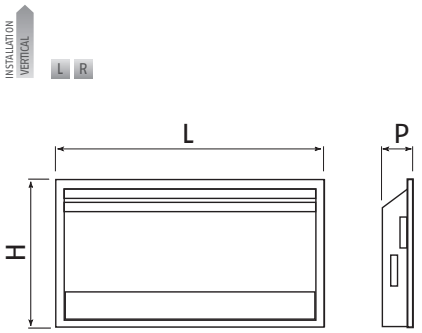
ACCESSORIES

Drawing	Decription	Notes	Code
	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		**20116484**
	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		**20181365**
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE) Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20076544**
	2-ways valve kit. The kit is composed by a valve with thermo-electric head, it allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management.		**20076590**
	2-ways taps kit.		**4013450**
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		**4013458**
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		**20069423**
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		**4013452**
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		**20069422**

(1) Both codes are necessary for the first fan coil
(2) It must be installed 1 piece for every remoted fan coil

Fan coil

Invisible Inverter



- Tangential fan coils with Brushless inverter motor for recessed installation in the wall (with template)

Description	H mm	L mm	P mm
INVISIBLE INVERTER 11	750	770	152
INVISIBLE INVERTER 21	750	970	152
INVISIBLE INVERTER 33	750	1170	152
INVISIBLE INVERTER 40	750	1370	152
INVISIBLE INVERTER 46	750	1570	152

INVISIBLE INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box. The white front panel with a grey intake grille in the same aesthetic line as the DESIGN INVERTER fan coil. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode. The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.
INVISIBLE INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.
Thanks to the DC Brushless motors, the INVISIBLE INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).
The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 4860 W with a wide range of accessories.

- Ultra flat design
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH TEMPLATE FOR RECESSED INSTALLATION IN THE WALL									
INVISIBLE INVERTER 11	1095	830	1415	1090	197	162	42.2-24.2	39.4-24.2	**20069349**
BOX (for recessed installation)									**20025164**
FRONTAL PANEL AND GRID									**20116418**
INVISIBLE INVERTER 21	2120	1760	2775	2350	389	320	43.1-25.3	40.2-25.3	**20069370**
BOX (for recessed installation)									**20025166**
FRONTAL PANEL AND GRID									**20116419**
INVISIBLE INVERTER 33	3310	2650	3905	3190	560	461	45.5-25.6	42.2-25.6	**20069371**
BOX (for recessed installation)									**20025167**
FRONTAL PANEL AND GRID									**20116420**
INVISIBLE INVERTER 40	3875	3340	4665	4100	699	576	45.9-26.3	42.5-26.3	**20069372**
BOX (for recessed installation)									**20025169**
FRONTAL PANEL AND GRID									**20116421**
INVISIBLE INVERTER 46	4560	3800	5705	4860	787	648	47.2-27.6	43.9-27.6	**20069373**
BOX (for recessed installation)									**20025171**
FRONTAL PANEL AND GRID									**20116423**

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
(3) Air temperature 20 °C
(4) Air flow rate measured with cleaned filters
(5) According to UNI EN ISO 7779:2001
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

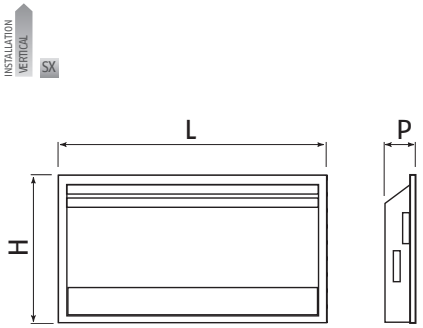
Drawing	Decription	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20101063**
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		**4013453**

Drawing	Decription	Notes	Code
	2-ways taps kit.		**4013450**
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		**20069423**
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		**4013452**
	Cables kit for right-side connections. It is compulsory for the connections reversal.		**20069415**

(1) Both codes are necessary for the first fan coil
(2) It must be installed 1 piece for every remoted fan coil

Fan coil

Invisible Inverter Plus



- Tangential fan coils with Brushless inverter motor, radiant heat plate effect of frontal panel for recessed installation in the wall (with template)

Description	H mm	L mm	P mm
INVISIBLE INVERTER PLUS 11	750	770	152
INVISIBLE INVERTER PLUS 21	750	970	152
INVISIBLE INVERTER PLUS 33	750	1170	152
INVISIBLE INVERTER PLUS 40	750	1370	152
INVISIBLE INVERTER PLUS 46	750	1570	152

INVISIBLE INVERTER PLUS is the Riello TOP of the range proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box.
The INVISIBLE INVERTER PLUS front panel unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode.
The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.
INVISIBLE INVERTER PLUS quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the INVISIBLE INVERTER PLUS range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).
The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 1090 4860 W.

- Ultra flat design
- Radiant effect in heating mode
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
WHITE FAN COIL WITH TEMPLATE FOR RECESSED INSTALLATION IN THE WALL										
INVISIBLE INVERTER PLUS 11	1095	830	1515	1090	197	162	42.2-24.2	39.4-24.2	(D)	**20069374**
BOX (for recessed installation)										**20025164**
FRONTAL PANEL AND GRID										**20116418**
INVISIBLE INVERTER PLUS 21	2120	1760	2885	2350	389	320	43.1-25.3	40.2-25.3	(D)	**20069375**
BOX (for recessed installation)										**20025166**
FRONTAL PANEL AND GRID										**20116419**
INVISIBLE INVERTER PLUS 33	3310	2650	4140	3190	560	461	45.5-25.6	42.2-25.6	(D)	**20069376**
BOX (for recessed installation)										**20025167**
FRONTAL PANEL AND GRID										**20116420**
INVISIBLE INVERTER PLUS 40	3875	3340	5015	4100	699	576	45.9-26.3	42.5-26.3	(D)	**20069377**
BOX (for recessed installation)										**20025169**
FRONTAL PANEL AND GRID										**20116421**
INVISIBLE INVERTER PLUS 46	4560	3800	5910	4860	787	648	47.2-27.6	43.9-27.6	(D)	**20069378**
BOX (for recessed installation)										**20025171**
FRONTAL PANEL AND GRID										**20116423**

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
(3) Air temperature 20 °C
(4) Air temperature 20 °C; Main fan in "off"
(5) Air flow rate measured with cleaned filters
(6) According to UNI EN ISO 7779:2001
(D) Availability of the material at our warehouse: 25 working days from the order validation date.
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

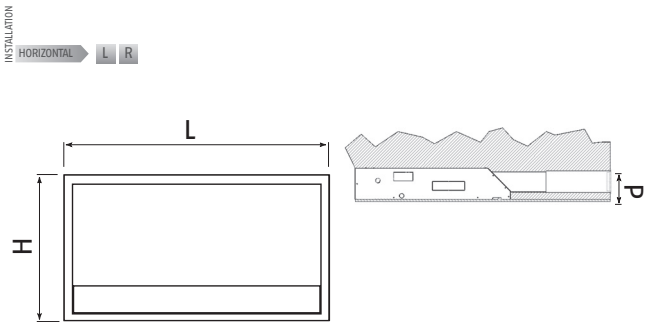
Drawing	Decription	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20101063**

Drawing	Decription	Notes	Code
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		**4013453**
	2-ways taps kit.		**4013450**
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		**20069423**
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		**4013452**

(1) Both codes are necessary for the first fan coil.
(2) It must be installed 1 piece for every remoted fan coil.

Ceiling-mounted fan coil units with formwork

Invisible Inverter Ceiling



- Fan coil unit with a built-in Brushless Inverter motor complete with template for ceiling installation.

Description	H mm	L mm	P mm
INVISIBLE INVERTER 11	750	770	152
INVISIBLE INVERTER 21	750	970	152
INVISIBLE INVERTER 33	750	1170	152
INVISIBLE INVERTER 40	750	1370	152
INVISIBLE INVERTER 46	750	1570	152

The INVISIBLE INVERTER ceiling-mounted unit is ideally designed for installation in false ceilings, such as in hotel rooms, where direct air intake, via a grille (not included), and air supply, via a distribution duct, are required. This unit can be fitted in false ceilings with limited thickness thanks to the unit's depth of only 14.2 cm.
The cover panel is white and equipped with an intake grille. The telescopic duct allows combination with any type of air outlet grille available on the market. INVISIBLE INVERTER is equipped with DC Brushless Inverter motors.
The DC Brushless motor allows a continuous variation from 0 to 100% of the air flow rate and therefore of the heating and cooling capacity. The INVISIBLE INVERTER heats and cools any room very quickly, with a choice of two dedicated mappings: PERFORMANCE for commercial environments, which require high performance and efficiency, and COMFORT for quiet residential environments. Thanks to the use of DC Brushless motors the INVISIBLE INVERTERs save up to 50% electricity compared to fan coil units with traditional motors (ON/OFF type).
The range is available in 5 models, with cooling capacities from 830 W up to 4560 W and heating capacities from 1090 W up to 4860 W with a wide range of accessories.

- Installation in false ceilings
- Particularly low noise level
- Reduced depth of 14.2 cm
- Wide range of accessories

TECHNICAL DATA

Description	Cooling power 7°C–12°C W (1)		Thermal output 50°C W (2)		Maximum air flow m³/h (4)		Sound pressure max-min dB(A) (5)		Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
WHITE FAN COIL UNIT COMPLETE WITH CEILING INSTALLATION TEMPLATE										
INVISIBLE INVERTER 11	1095	830	1415	1090	197	162	42.2-24.2	39.4-24.2		**20069349**
Built-in unit										**20025164**
Ceiling panel and suction grille									(D)	**20116425**
Telescopic air outlet duct									(D)	**4013486**
INVISIBLE INVERTER 21	2120	1760	2775	2350	389	320	43.1-25.3	40.2-25.3		**20069370**
Built-in unit										**20025166**
Ceiling panel and suction grille									(D)	**20116426**
Telescopic air outlet duct									(D)	**4013487**
INVISIBLE INVERTER 33	3310	2650	3905	3190	560	461	45.5-25.6	42.2-25.6		**20069371**
Built-in unit										**20025167**
Ceiling panel and suction grille									(D)	**20116427**
Telescopic air outlet duct									(D)	**4013488**
INVISIBLE INVERTER 40	3875	3340	4665	4100	699	576	45.9-26.3	42.5-26.3		**20069372**
Built-in unit										**20025169**
Ceiling panel and suction grille									(D)	**20116428**
Telescopic air outlet duct									(D)	**4013489**
INVISIBLE INVERTER 46	4560	3800	5705	4860	787	648	47.2-27.6	43.9-27.6		**20069373**
Built-in unit										**20025171**
Ceiling panel and suction grille									(D)	**20116429**
Telescopic air outlet duct									(D)	**4013490**

Performance refers to the following services:
(1) Ambient air temperature 27°C Tb.s. and 19°C Tb.u.
(2) Air temperature 20°C and same water flow rate as in cooling mode.
(3) Air temperature 20°C.
(4) Air flow rate measured with clean filters.
(5) According to UNI EN ISO 7779:2001.
(D) Availability of the material at our warehouse: 25 working days from the order validation date.
NOTA: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

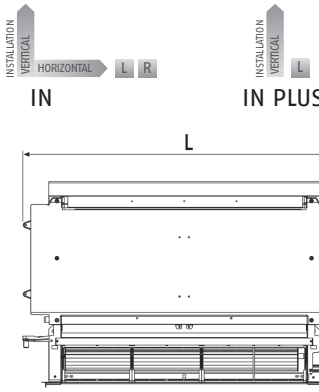
ACCESSORIES

Drawing	Decription	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20101063**
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		**4013453**
	2-ways taps kit.		**4013450**
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		**20069423**
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		**4013452**

(1) Both codes are necessary for the first fan coil
(2) It must be installed 1 piece for every remoted fan coil

Fan coil for recessed installation

In Inverter
In Inverter Plus



- Fan coils with Brushless inverter motor for recessed installation in the wall

Description	H mm	L mm	P mm
IN INVERTER 11	576	525	126
IN INVERTER 21	576	725	126
IN INVERTER 33	576	925	126
IN INVERTER 40	576	1125	126
IN INVERTER 46	576	1325	126
IN INVERTER PLUS 11	576	525	126
IN INVERTER PLUS 21	576	725	126
IN INVERTER PLUS 33	576	925	126
IN INVERTER PLUS 40	576	1125	126
IN INVERTER PLUS 46	576	1325	126

IN INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls that are relatively thin, thanks to the just 12.6 cm deep box.
The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.
IN INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.
Thanks to the DC Brushless motors, the IN INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type). The range comes in 5 models with (PLUS model) and without radiant effect, with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W.
The vast range of accessories and controls with DISPLAY support a wide range of applications.
All IN INVERTER versions can be installed vertically or horizontally (using a specific accessory), with standard connections on the left (on the right with the relative accessory).
The IN INVERTER PLUS versions can be installed vertically with connections on the left.
The structure is made of zinc-coated sheet metal.

- Ultra low-noise operation
- Just 12,6 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
FAN COIL FOR RECESSED INSTALLATION										
IN INVERTER 11	1095	830	1515	1090	197	162	42.2-24.2	39.4-24.2		**20069349**
IN INVERTER 21	2120	1760	2885	2350	389	320	43.1-25.3	40.2-25.3		**20069370**
IN INVERTER 33	3310	2650	4140	3190	560	461	45.5-25.6	42.2-25.6		**20069371**
IN INVERTER 40	3875	3340	5015	4100	699	576	45.9-26.3	42.5-26.3		**20069372**
IN INVERTER 46	4560	3800	5910	4860	787	648	47.2-27.6	43.9-27.6		**20069373**
FAN COIL WITH RADIANT HEAT PLATE FOR RECESSED INSTALLATION										
IN INVERTER PLUS 11	1095	830	1515	1090	197	162	42.2-24.2	39.4-24.2	(D)	**20069374**
IN INVERTER PLUS 21	2120	1760	2885	2350	389	320	43.1-25.3	40.2-25.3	(D)	**20069375**
IN INVERTER PLUS 33	3310	2650	4140	3190	560	461	45.5-25.6	42.2-25.6	(D)	**20069376**
IN INVERTER PLUS 40	3875	3340	5015	4100	699	576	45.9-26.3	42.5-26.3	(D)	**20069377**
IN INVERTER PLUS 46	4560	3800	5910	4860	787	648	47.2-27.6	43.9-27.6	(D)	**20069378**

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
(3) Air temperature 20 °C
(4) Air temperature 20 °C; main fan in "off"
(5) Air flow rate measured with cleaned filters
(6) According to UNI EN ISO 7779:2001
(D) Availability of the material at our warehouse: 25 working days from the order validation date.
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Decription	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	**20181383**
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	**20181395**
	Control panel for recessed installation.	(1)	**20147241**
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	**20116481**
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		**20116413**
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		**20101063**
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		**4013453**
	2-ways taps kit.		**4013450**

Drawing	Decription	Notes	Code
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	Cables kit for right-side connections for IN model (not for PLUS model). It is compulsory for the connections reversal.		20069415

(1) Both codes are necessary for the first fan coil
(2) It must be installed 1 piece for every remoted fan coil.

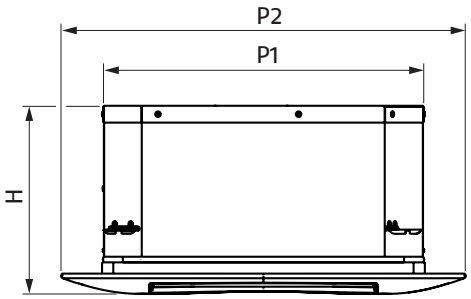
MATCHING ACCESSORIES

Drawing	Description	Size					Notes	Code
		11	21	33	40	46		
	90° air-inlet kit for recessed models IN Inverter (not for Plus models)	●					(D)	4013481
			●				(D)	4013482
				●			(D)	4013483
					●		(D)	4013484
						●	(D)	4013485
	Upper inlet kit for recessed models IN Inverter	●					(D)	4013486
			●				(D)	4013487
				●			(D)	4013488
					●		(D)	4013489
						●	(D)	4013490
	Suction kit for recessed models IN Inverter (not for Plus model)	●					(D)	4013491
			●				(D)	4013492
				●			(D)	4013493
					●		(D)	4013494
						●	(D)	4013495

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coils - Cassette

RK N Hydroline



- "Cassette" fan coils

Description	H mm	L1 mm	L2 mm
RK 24 N SET	298	720	569
RK 40 N SET	298	720	569
RK 47 N SET	298	720	569
RK 63 N SET	298	960	825
RK 72 N SET	298	960	825
RK 96 N SET	298	960	825

The RK N cassette fan coil range is designed for heating and/or cooling solutions both for residential or commercial applications wherever a ceiling installation is required in order to meet specific architectural needs.
Thanks to the pleasant aesthetic, the accurate design and the 4-ways adjustable air outlet, the RK N cassette fan coils are Riello's ideal solution for any setting. For a user-friendly interface, the whole range of RK N fan coils can be matched with the wall-hung control panels of Hydrocontrol line:

- TermoComfortPlus and TermoComfort.
- Extremely low noise level
- Washable air filter
- Condensate drain pump supplied as standard
- Ease of installation
- Excellent air distribution through 4 manual wings
- Filters easy to disassemble and clean.

TECHNICAL DATA

	Description	Power cooling kW	Power heating kW	Air flow rate m^3/h	Notes	Code
RK 24 N SET	RK 24 N	2.400	3.200	660	(1)(2)	**20051794**
	Grid panel				(2)	**4012190**
	Summer/Winter automatic switch kit				(2)	**4012226**
RK 40 N SET	RK 40 N	4.000	5.000	735	(1)(2)	**20051795**
	Grid panel				(2)	**4012190**
	Summer/Winter automatic switch kit				(2)	**4012226**
RK 47 N SET	RK 47 N	4.700	6.200	900	(1)(2)	**20051796**
	Grid panel				(2)	**4012190**
	Summer/Winter automatic switch kit				(2)	**4012226**
RK 63 N SET	RK 63 N	6.300	8.110	980	(1)(2)	**20051797**
	Grid panel				(2)	**20051800**
	Summer/Winter automatic switch kit				(2)	**4012226**
RK 72 N SET	RK 72 N	7.200	10.000	1160	(1)(2)	**20051798**
	Grid panel				(2)	**20051800**
	Summer/Winter automatic switch kit				(2)	**4012226**
RK 96 N SET	RK 96 N	9.600	13.000	1.600	(1)(2)	**20051799**
	Grid panel				(2)	**20051800**
	Summer/Winter automatic switch kit				(2)	**4012226**

(*) **TO PURCHASE THE COMPLETE PRODUCT, PLEASE REMEMBER TO ORDER ALL THE CODES** (RK N, GRID PANEL AND SUMMER/WINTER AUTOMATIC SWITCH KIT).
(1) The fan coil must be matched with an electrovalve that manages the functioning.
(2) Accessories "Grid panel" and "Summer/Winter automatic switch kit" must be ordered together with the base unit.
Performance refer to the following conditions:
- fan speed: maximum;
- cooling: flow water 7 °C; inlet air temperature 27 °C Td.b./ 19 °C Tw.b.; (Δt 5 °C);
- heating: flow water 50 °C; inlet air temperature 20 °C Td.b; same water flow rate reached in cooling mode;
- maximum flow water 80 °C.

ACCESSORIES

Description	Code
2-pipes valve kit (24-47 models)	**20035945**
2-pipes valve kit (63-96 models)	**20086595**
Primary air kit	**4012192**
Air lock kit	**4012225**

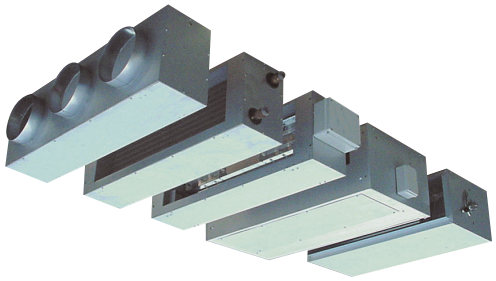
CONTROLS

Description	Notes	Code
2 pipes "Plus" control (wall-mounted)	(1)	**20081464**
Air probe kit	(2)	**20083816**
Water probe kit		**20083809**
Multiple kit	(3)	**20081499**

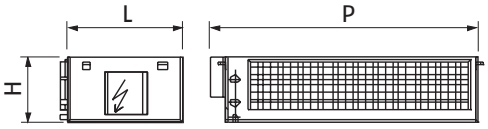
(1) Not included the water probe kit code 20083809.
(2) Sensor for remote reading.
(3) One control for each fan coil.

Ductable fan coils

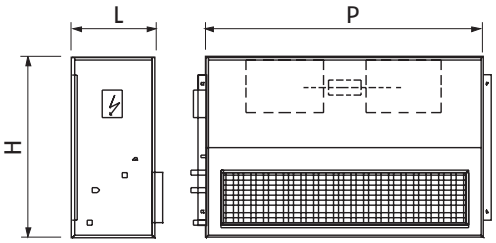
FCU N



FCU



FCU V



- Fan coils for horizontal and vertical installation

Description	H mm	L mm	P mm
FCU 09 N	296	520	645
FCU 15 N-17 N	296	520	1000
FCU 21 N	325	600	1100
FCU 24 N	325	600	1345
FCU 36 N-43 N	375	600	1345

FCU duct-connected fan coils are designed to provide a preliminary air treatment both for small-sized centralized installations and for installations with fun-coils unists. They are available in 7 models with an air flow rate ranging from 930 to 4.300 m3/h. The possibility to combine FCU units with a series of accessories, both on the outlet and on the intake side, makes them suitable for different uses, starting from the simple functions of cooling and/or heating up to treatments such as filtering, mixing, external air suction, re-heating both through water and electrical.
It is available in two basic versions: one for horizontal installation, having a reduced length, and one for vertical installation. These units consist of an aluzinc casing, provided with a thermal insulation layer made of polyethylene and polyester. All units are equipped with: a synthetic eff. EU3 filter, removable on guide rails, a heat-exchange coil with copper pipes and aluminium wings, a stainless steel AISI 304 condensate trap and double-suction fans with direct coupled motor. All units (except for 09 size because of its reduced electrical absorption) are also equipped with an electrical connection box with connectors protected by a relay.

- Compact dimensions
- Stainless steel AISI 304 condensate trap
- Motorized fan group, that can be inspected from the bottom
- Wide range of accessories enabling the units to be more flexible and suit different application needs.

TECHNICAL DATA

Description	Power cooling kW	Power heating kW	Maximum air loss m³/h	External static pressure Pa	Maximum power input W	Code
MODELS FOR HORIZONTAL INSTALLATION						
FCU 09 N	4.6	9.8	930	90	195	**20095872**
FCU 15 N	7.5	15.5	1.500	100	299	**20095873**
FCU 17 N	9.1	19.7	1.600	85	302	**20095874**
FCU 21 N	10.5	21.6	2.050	115	430	**20095876**
FCU 24 N	13.1	25.9	2.400	105	430	**20095877**
FCU 36 N	15.7	35.5	3.600	120	750	**20095878**
FCU 43 N	20.7	46.3	4.200	115	950	**20095879**

(1) Availability of the material in our warehouse: 20 working days of receipt of the order.
Performance refer to the following conditions:
- Cooling: inlet air temperature 26 °C with 50% r.h.; flow water 7 °C (Δt 5 °C at the nominal air flow)
- Heating: inlet air temperature 20 °C with 50% r.h.; flow water 70 °C (Δt 10 °C at the nominal air flow)

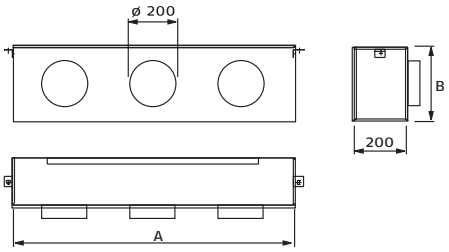
ACCESSORIES

Description	Notes	Code
CP-Basic: speed selector with OFF/cooling/heating button and 3-positions speed switch	(A)	**20083633**
CP-Comfort/R: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of the electrical resistance and fan speed selection (minimum, medium, maximum), for models with electrical resistance	(A)	**20083635**
CP-Comfort/V: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of water coil (0-10 V control) and fan speed selection (minimum, medium, maximum), for models with water coil	(A)	**20083637**

(A) The accessory cannot be ordered separately but only togheter with the unit. Anyway it will have be mounted because it is not pre-intalled on the product.

OUTLET PLENUM FOR ROUND DUCTS

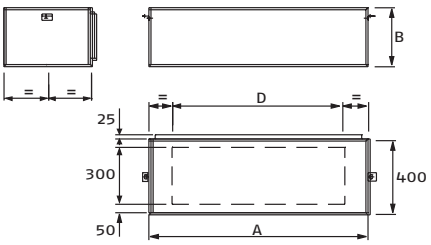
Destination	Description	Code
Model 09	Outlet plenum for round ducts for FCU 09	**4015962**
Models 15-17	Outlet plenum for round ducts for FCU 15-17	**4015963**
Model 21	Outlet plenum for round ducts for FCU 21	**4015964**
Model 24	Outlet plenum for round ducts for FCU 24	**4015965**
Models 36-43	Outlet plenum for round ducts for FCU 36-43	**4015966**



Model	Round ducts		Dimensions mm	
	Number	Diameter mm	A	B
Model 09	2	200	614	295
Models 15-17	3	200	974	295
Model 21	3	200	1074	322
Model 24	4	200	1314	322
Models 36-43	4	200	1314	372

INTAKE PLENUM 90°

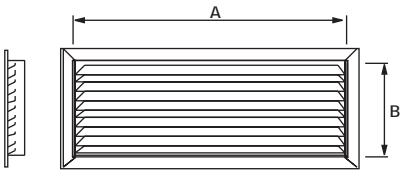
Destination	Description	Code
Model 09	Intake plenum 90° for FCU 09	**4015967**
Models 15-17	Intake plenum 90° for FCU 15-17	**4015968**
Model 21	Intake plenum 90° for FCU 21	**4015969**
Model 24	Intake plenum 90° for FCU 24	**4015970**
Models 36-43	Intake plenum 90° for FCU 36-43	**4015971**



Model	Dimensions mm		
	A	B	D
Model 09	550	278	500
Models 15-17	910	278	800
Model 21	1010	302	800
Model 24	1250	302	1200
Models 36-43	1250	328	1200

INTAKE GRID WITH FIXED WINGS (FOR INTAKE PLENUM)

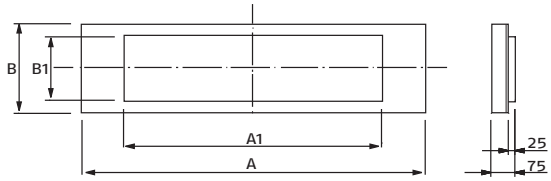
Destination	Description	Code
Model 09	Intake grid for FCU 09	4015972
Models 15-17-21	Intake grid for FCU 15-17-21	4015973
Models 24-36-43	Intake grid for FCU 24-36-43	4015974



Model	Dimensions mm	
	A	B
Model 09	500	300
Models 15-17-21	800	300
Models 24-36-43	1200	300

ADAPTER FRAME FOR RECTANGULAR DUCTS

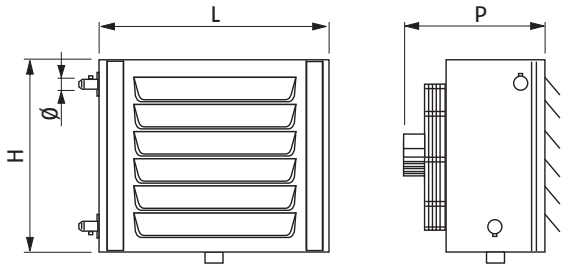
Destination	Description	Code
Model 09	Adapter frame for FCU 09	**4015978**
Models 15-17	Adapter frame for FCU 15-17	**4015979**
Model 21	Adapter frame for FCU 21	**4015980**
Model 24	Adapter frame for FCU 24	**4015981**
Models 36-43	Adapter frame for FCU 36-43	**4015982**



Model	Dimensions mm			
	A	A1	B	B1
Model 09	614	440	295	235
Models 15-17	974	800	295	235
Model 21	1074	800	322	235
Model 24	1314	1070	322	280
Models 36-43	1314	1070	372	280

Water hot air generators

Nuovo Acu-Nuovo Acu F



- Heating and cooling versions
- Helicoidal fan

Description	H mm	L mm	P mm	Ø mm	Net weight kg
NUOVO ACU 13 M	390	555	370	1"	15
NUOVO ACU 23 M	440	605	396	1"	18
NUOVO ACU 33 M	490	655	402	1"	21
NUOVO ACU 43 M	540	705	402	1"	24
NUOVO ACU 53 M	590	755	402	1"	28
NUOVO ACU 63 M	640	805	402	1"¼	32
NUOVO ACU 73 T	690	855	460	1"¼	43
NUOVO ACU 23 F	440	605	396	1"	18
NUOVO ACU 33 F	490	655	402	1"	21
NUOVO ACU 43 F	540	705	402	1"	24
NUOVO ACU 63 F	640	805	402	1" ¼	32

NUOVO ACU and NUOVO ACU F are water air-heaters designed for the heating and cooling of small and medium-sized areas, such as warehouses, storehouses, laboratories, sports centres.
The NUOVO ACU consists of 3-ranks coils for applications with low temperature warm water. The NUOVO ACU F is specifically designed for cooling and consists of 3-ranks copper coils with condensate trap.

- Low noise level
- Reduced dimensions
- Coil with coupling provided with vent
- Reversible hydraulic connections
- Possibility of ceiling installation with specific accessory kit (only heating version, not for F versions)
- Available as single-phase (16 models) and three-phase (1 model)
- 10 models
- Wide range of accessories
- The range consists of 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kW.
- Range consists of:
  7 models with 3 row coils with output from 17,3 to 63 kW
  4 models for cooling with 3 row coils with output from 19,6 to 42,2 kWa.

TECHNICAL DATA (HEATING VERSION)

Description	Power heating (*) kW	Air flow rate (**) m³/h	Motor	Nr. revs/min (***)	Code
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS					
NUOVO ACU 13M	17.3	1.550	Single-phase	1400-900-700	**4152422**
NUOVO ACU 23M	23.7	2.300	Single-phase	1400-900-700	**4152424**
NUOVO ACU 33M	28.5	2.550	Single-phase	1400-900-700	**4152426**
NUOVO ACU 43M	37.5	3.400	Single-phase	1400-900-700	**4152428**
NUOVO ACU 53M	44.0	3.850	Single-phase	1400-900-700	**4152430**
NUOVO ACU 63M	54.1	4.900	Single-phase	1400-900-700	**4152432**
NUOVO ACU 73T	61.2	6.150	Three-phase	900-700	**4152414**

(*) Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar, fan at the maximum speed.
(**) Performance refer to fan at the maximum speed.
(***) The variation of revolutions number can be obtained by applying specific accessories.

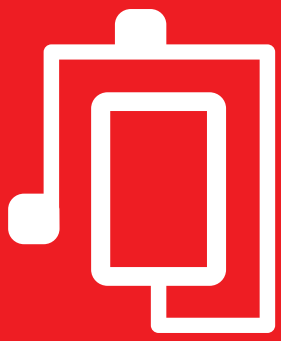
TECHNICAL DATA (COOLING VERSION)

Description	Power heating (*) kW	Power cooling (**) kW	Air flow rate m³/h	Motor	Nr. revs/min	Notes	Code
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS FOR COOLING							
NUOVO ACU 23F	19,6	10,2	1.520	Single-phase	900	(D)	**4152501**
NUOVO ACU 33F	24,5	12,9	1.900	Single-phase	900	(D)	**4152502**
NUOVO ACU 43F	27,9	15,1	2.000	Single-phase	900	(D)	**4152503**
NUOVO ACU 63F	42,2	21,5	3.150	Single-phase	900	(D)	**4152504**

(*) Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar.
(**) Performance refer to the following conditions: ΔT water 7-12 °C, inlet air termperature +30 °C, 60% r.h., 1013 mbar.
(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

ACCESSORIES

Description	Destination	Code
Single-phase 4-position speed regulator kit	NUOVO ACU 13-63 M NUOVO ACU 23-63 F	**20092637**
Three-phase control panel kit	NUOVO ACU 73 T	**4155602**
Three-phase speed manual selector kit	NUOVO ACU 73 T	**4155604**
Support brackets	All models	**4155606**
Ceiling installation kit	NUOVO ACU 13 M	**4155609**
Ceiling installation kit	NUOVO ACU 23 M	**4155611**
Ceiling installation kit	NUOVO ACU 33 M	**4155613**
Ceiling installation kit	NUOVO ACU 43 M	**4155615**
Ceiling installation kit	NUOVO ACU 53 M	**4155617**
Ceiling installation kit	NUOVO ACU 63 M	**4155619**
Ceiling installation kit	NUOVO ACU 73 T	**4155620**
Vertical dampers kit	NUOVO ACU 13 M	**4155626**
Vertical dampers kit	NUOVO ACU 23 M - 23 F	**4155628**
Vertical dampers kit	NUOVO ACU 33 M - 33 F	**4155630**
Vertical dampers kit	NUOVO ACU 43 M - 43 F	**4155632**
Vertical dampers kit	NUOVO ACU 53 M	**4155634**
Vertical dampers kit	NUOVO ACU 63 M - 63 F	**4155636**
Vertical dampers kit	NUOVO ACU 73 T	**4155638**



SYSTEM COMPLEMENTARY ITEMS

THERMOSTAT AND CHRONOTERMOSTAT

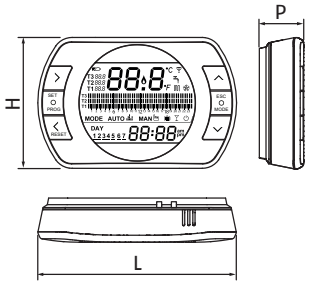
Smart remote control

Hi, Comfort T100 Wi-Fi

NEW

GET IT ON Google Play

Available on the iPhone App Store



- Modulating room controls
- Remote interface for boiler
- Remore management through APP

Description	H mm	L mm	P mm
Hi, Comfort T100 Wi-Fi	89	135	28

Hi, Comfort is the smart and easy solution by Riello to manage your domestic comfort both through the traditional wall control and the new app Hi, Comfort, freely downloadable for iOS and Android systems, that permits to easy control the boiler and the temperature inside the house, making a fantastic user experience for end user a real thing. Hi, Comfort app, in fact, meets and respect all the standards that current market requires in terms of simplicity of usage, wide compatibility and highest security.
Hi, Comfort is available for OT connection to better exploit modulation capability of the boiler (reaching A+ standard, according to EU Delegated Regulation No. 811/2013) or with On/Off to reach maximum simplicity.
It is possible to control up to 8 heating zones, each one controlled by its own Hi, Comfort to independently set temperature and time windows.
Installing Hi, Comfort is easy and in case of replacement of an old thermostat no renovation of the electric wiring is required. Hi, Comfort is powered by batteries, thus allowing a truly wireless installation: Hi, Comfort can be installed anywhere in the house and connected to the boiler through Hi, Comfort G100-W or radio base station Hi, Comfort G100-R. All procedures that with a traditional thermostat might look complicated, such as daily/weekly programming, are now easily within everyone's means thanks to touch screen technology.

TECHNICAL DATA

Description	Notes	Code
Hi, Comfort T100 Wi-Fi		**20193354**
Hi, Comfort T100		**20193352**
Hi, Comfort G100-W		**20193355**
Hi, Comfort G100-R		**20193356**
ITRF11 interface board	(1)	**20164477**

(1) Only for "old model" Family Condens.

RANGE DESCRIPTION

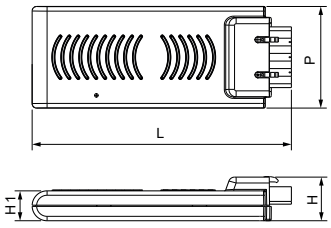
Drawing	Description	Code
	**Hi, Comfort T100 Wi-Fi** Complete KIT for wi-fi installation, containing a room control Hi, Comfort T100 and gateway Hi, Comfort G100-W. Package includes batteries, wires, transformer, screws, anchors, double-sided tape, magnetic tape and technical instructions. Class-ErP grant: VI-4% (*); I-1% (**).	**20193354**
	**Hi, Comfort T100** Room thermostat Hi, Comfort T100 ideal for replacement and new buildings, both for single zone and for multi-zones application. Hi, Comfort T100 can be connected to the internet coupled with Hi, Comfort G100-W (optional). Package includes batteries, screws, anchors, double-sided tape and technical instructions. Class-ErP grant: V-3% (*); I-1% (**).	**20193352**
	**Hi, Comfort G100-W** Hi, Comfort G100-W is the device permitting internet connection through domestic Wi-Fi net. It allows as well OT connection with the boiler for remote advanced control. Package includes wires, transformer, double-sided tape.	**20193355**
	**Hi, Comfort G100-R** Radio-frequency based device allowing wireless connection of control Hi, Comfort T100 to the boiler (both ON/OFF and through OTBus). It can be used as well when weakness of Wi-Fi signal preclude to install Hi, Comfort G100-W close to the boiler.	**20193356**
	**ITRF11 interface board** (Only for Family Condens "former version"). To be used according to the kind of boiler (consult dedicated section) in OTBus operation. For operation in ON/OFF mode it is not required.	**20164477**

(*) With connection via OTBus.
(**) In on/off connection.

Smart key

Hi, Comfort K100 NEW

GET IT ON Google Play
Available on the iPhone App Store



- Remote control
- Updated App
- Easy to install

Description	H mm	H1 mm	L mm	P mm
Hi, Comfort K100	14.6	10	86.8	34

Smart Key Hi, Comfort K100 permits to make boilers smart without necessarily changing your thermostat, for the highest installation easiness: its plug&play installation and guided commissioning permit to be operative quickly.
With Hi, Comfort K100 it is possible to control remotely the boiler, set parameters and reduce consumptions avoiding useless heating hours.
New Hi, Comfort App is enriched with newly developed functions to grant a great online experience for end-users, like baby function that set a maximum of DHW temperature supplied by shower. Hi, comfort K100 requires a ModBus connection in the boiler.

TECHNICAL DATA

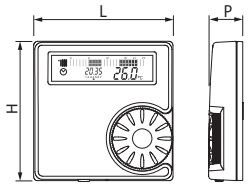
Description	Code
Hi, Comfort K100	**20168501**

NOTE: available from the second quarter of 2022.

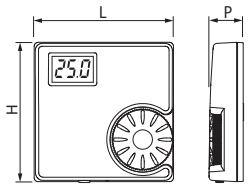
Thermostats and chronostats

ChronoRiello

CHRONORIELLO 7D



TERMORIELLO DGT



- The ChronoRiello are digital programmable thermostats for programming both daily and weekly temperature, in heating mode and allow optimal management of the system

Description	H mm	L mm	P mm
TERMORIELLO DGT	86	86	20
TERMORIELLO DGT WIRELESS	86	86	20
CHRONORIELLO 7D	86	86	20
CHRONORIELLO 7D WIRELESS	86	86	20

TERMORIELLO DGT
Room thermostat with digital display.

TERMORIELLO DGT WIRELESS
Room thermostat with digital display.

CHRONORIELLO 7D
Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze).
Personalized weekly programming. Cooling function (it is necessary for this function to install an external separation relay).
Party function (always warm up request and programmed time slots ignored). Daily band with time division in 60 minute segments.

CHRONORIELLO 7D WIRELESS
Digital weekly chronothermostat digital display in radio frequency.
Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze).
Personalized weekly programming. Party function (heating request always active at programmed time slots ignored). Daily band with time division in 60 minute segments.

- Simplicity of installation
- Ease of use
- Temperature selection knob on thermostat front
- Calibration probe on all models
- Series batteries on all models
- The wireless models work in radio frequency allowing the connection to the boiler without the use of electric cables
- On / off hysteresis can be calibrated on all models.

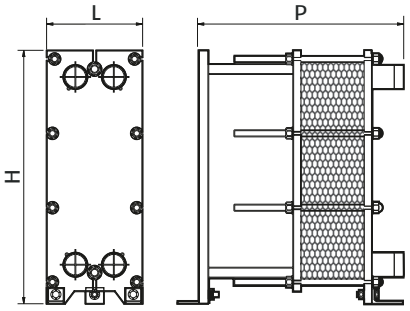
TECHNICAL DATA

Description	Type	Code
TERMORIELLO DGT	Thermostat	**20059640**
TERMORIELLO DGT WIRELESS	Radio frequency thermostat	**20063871**
CHRONORIELLO 7D	Weekly programmable thermostat	**20063873**
CHRONORIELLO 7D WIRELESS	Digital weekly chronothermostat digital display in radio frequency	**20101747**

HEAT-EXCHANGERS

Plate heat-exchanger

Riello HEATgate



- Plate heat-exchangers for heat generators, heat pumps and solar applications

Description	Plates Nr. from - to	H mm	L mm	P mm
SP 20	11 - 29	470	200	252
	41 - 49	470	200	352
SP 30	17 - 27	755	200	251
	37	755	200	351
	53 - 69	755	200	552
SP 35	25 - 39	950	400	408
	45 - 65	950	400	548
	75 - 93	950	400	688
	105 - 121	950	400	918
SP 40	19 - 35	819	310	418
	47 - 67	819	310	558
	75 - 99	819	310	718
	111 - 145	819	310	948
SP 60	43 - 101	1124	530	775
	117 - 167	1124	530	1275

RIELLO HEATgate is a range of inspectable plates heat-exchangers created by RIELLO to suit as many applications as possible. Its technical features make it a high-quality, long-lasting product, while ensuring the highest efficiency and reliability during the product life.
The RIELLO HEATgate range consists of heat-exchangers with plates made of stainless steel AISI316, NBR or EPDM peroxide gaskets (according to the application), and is equipped with threaded couplings made of AISI316.
The heat-exchanger structure ensure tightness up to 10 bars. The different sizes perfectly meet the thermal programmes and applications shown in the table, thus ensuring high efficiency and reduced pressure drops.
Ease of maintenance thanks to the quality of materials.

TECHNICAL DATA

Description	Plates Nr.	DN	MIX (*) %	Weight kg	Kit type (**)		Code
					Insulation	Feet	
HEAT-EXCHANGER AISI 316 L, WITH EPDM PEROXIDE GASKETS FOR SOLAR APPLICATION							
SP 20 - DN32 29 (29A) E	29	DN32	100	33	KIT C1	KIT P1	**20016729**
SP 20 - DN32 41 (41A) E	41	DN32	100	37	KIT C2	KIT P1	**20016730**
SP 30 - DN32 17 (17A) E	17	DN32	100	46	KIT C3	KIT P1	**20016734**
SP 30 - DN32 27 (27A) E	27	DN32	100	51	KIT C3	KIT P1	**20016735**
SP 30 - DN32 37 (37A) E	37	DN32	100	57	KIT C4	KIT P1	**20016736**
SP 30 - DN32 53 (53A) E	53	DN32	100	66	KIT C5	KIT P1	**20016738**
SP 30 - DN32 69 (69A) E	69	DN32	100	73	KIT C5	KIT P1	**20016739**
SP 40 - DN65 23 (10A) E	23	DN65	45	108	KIT C6	KIT P2	**20016731**
SP 40 - DN65 29 (13A) E	29	DN65	45	112	KIT C6	KIT P2	**20016732**
SP 40 - DN65 33 (15A) E	33	DN65	45	114	KIT C6	KIT P2	**20016733**
PLATE HEAT-EXCHANGER AISI 316 L, WITH NBR GASKETS							
SP 20 - DN32 11 (11A) N	11	DN32	100	28	KIT C1	KIT P1	**20016741**
SP 20 - DN32 21 (21A) N	21	DN32	100	30	KIT C1	KIT P1	**20016742**
SP 20 - DN32 29 (29A) N	29	DN32	100	33	KIT C1	KIT P1	**20014216**
SP 20 - DN32 41 (41A) N	41	DN32	100	37	KIT C2	KIT P1	**20014217**
SP 20 - DN32 49 (49A) N	49	DN32	100	39	KIT C2	KIT P1	**20014240**
SP 35 - DN50 25 (25A) N	25	DN50	100	89	KIT C17	KIT P2	**20140410**
SP 35 - DN50 31 (31A) N	31	DN50	100	92	KIT C17	KIT P2	**20140411**
SP 35 - DN50 35 (35A) N	35	DN50	100	94	KIT C17	KIT P2	**20140412**
SP 35 - DN50 39 (39A) N	39	DN50	100	96	KIT C17	KIT P2	**20140413**
SP 35 - DN50 45 (45A) N	45	DN50	100	103	KIT C18	KIT P2	**20140414**
SP 35 - DN50 49 (49A) N	49	DN50	100	105	KIT C18	KIT P2	**20140415**
SP 35 - DN50 57 (57A) N	57	DN50	100	109	KIT C18	KIT P2	**20140416**
SP 35 - DN50 65 (65A) N	65	DN50	100	113	KIT C18	KIT P2	**20140418**
SP 35 - DN50 75 (75A) N	75	DN50	100	122	KIT C19	KIT P2	**20140419**
SP 35 - DN50 81 (81A) N	81	DN50	100	125	KIT C19	KIT P2	**20140420**
SP 35 - DN50 93 (93A) N	93	DN50	100	131	KIT C19	KIT P2	**20140421**
SP 35 - DN50 105 (105A) N	105	DN50	100	143	KIT C20	KIT P2	**20140423**
SP 35 - DN50 121 (121A) N	121	DN50	100	151	KIT C20	KIT P2	**20140424**
SP 40 - DN65 19 (19A) N	19	DN65	100	105	KIT C6	KIT P2	**20014230**
SP 40 - DN65 23 (23A) N	23	DN65	100	108	KIT C6	KIT P2	**20014218**
SP 40 - DN65 27 (27A) N	27	DN65	100	111	KIT C6	KIT P2	**20014219**
SP 40 - DN65 35 (35A) N	35	DN65	100	116	KIT C6	KIT P2	**20014235**
SP 40 - DN65 47 (47A) N	47	DN65	100	128	KIT C7	KIT P2	**20014232**
SP 40 - DN65 59 (59A) N	59	DN65	100	136	KIT C7	KIT P2	**20014231**
SP 40 - DN65 67 (67A) N	67	DN65	100	144	KIT C7	KIT P2	**20140425**
SP 40 - DN65 75 (75A) N	75	DN65	100	154	KIT C8	KIT P2	**20140426**
SP 40 - DN65 93 (93A) N	93	DN65	100	166	KIT C8	KIT P2	**20140427**
SP 40 - DN65 99 (99A) N	99	DN65	100	171	KIT C8	KIT P2	**20140428**
SP 40 - DN65 111 (111A) N	111	DN65	100	185	KIT C21	KIT P2	**20140429**
SP 40 - DN65 121 (121A) N	121	DN65	100	192	KIT C21	KIT P2	**20140432**
SP 40 - DN65 145 (145A) N	145	DN65	100	209	KIT C21	KIT P2	**20140433**
SP 60 - DN100 51 (51A) N	51	DN100	100	415	KIT C15	KIT P3	**20140435**
SP 60 - DN100 59 (59A) N	59	DN100	100	427	KIT C15	KIT P3	**20140437**
SP 60 - DN100 65 (65A) N	65	DN100	100	435	KIT C15	KIT P3	**20140438**
SP 60 - DN100 73 (73A) N	73	DN100	100	447	KIT C15	KIT P3	**20140439**
SP 60 - DN100 77 (77A) N	77	DN100	100	442	KIT C15	KIT P3	**20083248**
SP 60 - DN100 85 (85A) N	85	DN100	100	464	KIT C15	KIT P3	**20140440**
SP 60 - DN100 97 (97A) N	97	DN100	100	471	KIT C15	KIT P3	**20083249**
SP 60 - DN100 107 (107A) N	107	DN100	100	517	KIT C16	KIT P3	**20140441**
SP 60 - DN100 117 (117A) N	117	DN100	100	521	KIT C16	KIT P3	**20083250**
SP 60 - DN100 121 (79A) N	121	DN100	65	527	KIT C16	KIT P3	**20039825**
SP 60 - DN100 143 (100A) N	143	DN100	70	558	KIT C16	KIT P3	**20039826**
SP 60 - DN100 167 (109A) N	167	DN100	65	592	KIT C16	KIT P3	**20039827**

(*) % of high efficiency plates on the total
(**) See matching table with insulation kit page 488

INSULATION KITS MATCHING TABLE

Thermoformed insulation kits to combine with the heatgate plate heat exchangers for high and low temperature applications.

Description	Insulation kit type	Exchanger type	Maximum plate nr.	Code
Insulation kit SP 20 29	KIT C1	20	29	**20096860**
Insulation kit SP20 49	KIT C2	20	49	**20096862**
Insulation kit SP30 29	KIT C3	30	29	**20096863**
Insulation kit SP30 49	KIT C4	30	49	**20096864**
Insulation kit SP30 75	KIT C5	30	75	**20096865**
Insulation kit SP 35 41	KIT C17	35	41	**20140442**
Insulation kit SP 35 71	KIT C18	35	71	**20140443**
Insulation kit SP 35 101	KIT C19	35	101	**20140444**
Insulation kit SP 35 151	KIT C20	35	151	**20140445**
Insulation kit SP40 41	KIT C6	40	41	**20090501**
Insulation kit SP40 71	KIT C7	40	71	**20096867**
Insulation kit SP40 101	KIT C8	40	101	**20096868**
Insulation kit SP40 151	KIT C21	40	151	**20140446**
Insulation kit SP60 101	KIT C15	60	101	**20096918**
Insulation kit SP60 201	KIT C16	60	201	**20116198**

FEET MATCHING TABLE

Description	Feet kit	Exchanger type	Code
Ground fixing kit SP 20-30	Kit P1	20-30	**20120281**
Ground fixing kit SP 35-40	Kit P2	40-45	**20120282**
Ground fixing kit SP 60	Kit P3	60	**20120284**

THE MATCHING WITH THE BOILERS LISTED BELOW ARE VALID FOR THE HIGH WATER CONTENT MODELS AND FOR THE ALU PRO POWER BOILERS. CONTACT THE PRE SALES DEPARTMENT FOR THE MATCHING WITH CONDEXA PRO (OLD MODELS), CONDEXA PRO 2 EVO AND CONDEXA PRO 3.

SELECTION TABLE

BOILER ON HIGH TEMPERATURE INSTALLATION

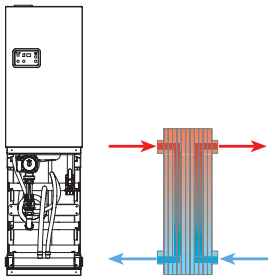
Installation power

kW	Code	Model
115	20014230	**SP 40 - DN65 19 (19A) N**
150	20014218	**SP 40 - DN65 23 (23A) N**
225	20014219	**SP 40 - DN65 27 (27A) N**
300	20014235	**SP 40 - DN65 35 (35A) N**
350	20014232	**SP 40 - DN65 47 (47A) N**
450	20014231	**SP 40 - DN65 59 (59A) N**
525	20014231	**SP 40 - DN65 59 (59A) N**
600	20140425	**SP 40 - DN65 67 (67A) N**
700	20140426	**SP 40 - DN65 75 (75A) N**
750	20140426	**SP 40 - DN65 75 (75A) N**
800	20140435	**SP 60 - DN100 51 (51A) N**
900	20140437	**SP 60 - DN100 59 (59A) N**
1000	20140438	**SP 60 - DN100 65 (65A) N**
1150	20140439	**SP 60 - DN100 73 (73A) N**
1250	20083248	**SP 60 - DN100 77 (77A) N**
1450	20140440	**SP 60 - DN100 85 (85A) N**

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H_2O	80	60	≤ 33
Secondary	H_2O	50	70	≤ 33



CONDENSING BOILER ON LOW TEMPERATURE INSTALLATION

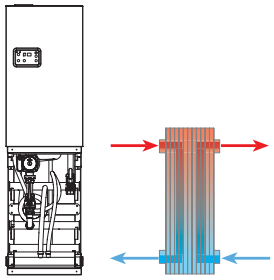
Installation power

kW	Code	Model
35	20016742	**SP 20 – DN32 21 (21A) N**
75	20014217	**SP 20 – DN32 41 (41A) N**
100	20014240	**SP 20 – DN32 49 (49A) N**
115	20140411	**SP 35 – DN50 31 (31A) N**
150	20140413	**SP 35 – DN50 39 (39A) N**
180	20140415	**SP 35 – DN50 49 (49A) N**
225	20140416	**SP 35 – DN50 57 (57A) N**
300	20014231	**SP 40 – DN65 59 (59A) N**
350	20140425	**SP 40 – DN65 67 (67A) N**
375	20140426	**SP 40 – DN65 75 (75A) N**
450	20140427	**SP 40 – DN65 93 (93A) N**
525	20140429	**SP 40 – DN65 111 (111A) N**
600	20140433	**SP 40 – DN65 145 (145A) N**

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H_2O	60	40	≤10
Secondary	H_2O	30	40	≤ 31



SOLAR THERMAL WITH SWIMMING POOL

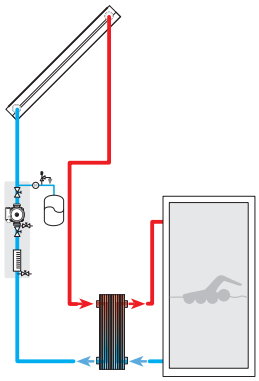
Installation power

kW	Code	Model
20	20016729	**SP 20 – DN32 29 (29A) E**
35	20016730	**SP 20 – DN32 41 (41A) E**
50	20016731	**SP 40 – DN65 23 (10A) E**
75	20016732	**SP 40 – DN65 29 (13A) E**
100	20016733	**SP 40 – DN65 33 (15A) E**

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	Glyc. 30%	55	35	≤ 2
Secondary	H_2O	29	33	≤ 20



SOLAR THERMAL WITH PUFFER

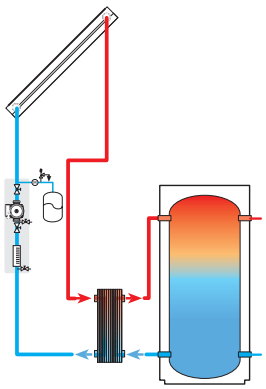
Installation power

kW	Code	Model
20	20016734	**SP 30 – DN32 17 (17A) E**
35	20016735	**SP 30 – DN32 27 (27A) E**
50	20016736	**SP 30 – DN32 37 (37A) E**
75	20016738	**SP 30 – DN32 53 (53A) E**
100	20016739	**SP 30 – DN32 69 (69A) E**

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	Glyc. 30%	60	40	≤ 5
Secondary	H_2O	35	55	≤ 5



INSTANTANEOUS DHW PRODUCTION

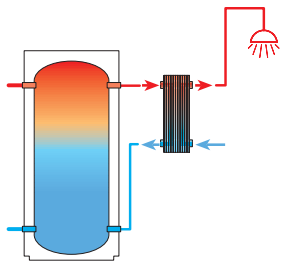
Installation power

kW	Code	Model
50	20016734	**SP 30 - DN32 17 (17A) E**
75	20016735	**SP 30 - DN32 27 (27A) E**
115	20016736	**SP 30 - DN32 37 (37A) E**
130	20014230	**SP 40 - DN65 19 (19A) N**
150	20014218	**SP 40 - DN65 23 (23A) N**
180	20014219	**SP 40 - DN65 27 (27A) N**
240	20014235	**SP 40 - DN65 35 (35A) N**
350	20014232	**SP 40 - DN65 47 (47A) N**
450	20140425	**SP 40 - DN65 67 (67A) N**
525	20140427	**SP 40 - DN65 93 (93A) N**
600	20140429	**SP 40 - DN65 111 (111A) N**

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H_2O	50	30	≤ 20
Secondary	H_2O	10	43	≤ 20



WATER CIRCULATORS

VARIABLE SPEED ELECTRONIC

SINGLE PUMP

VEGA RMXA-RMYA

4,1-7,6 H_{MAX} (mca)

page 492

VEGA RSHE

7,4-13,5 H_{MAX} (mca)

page 495

DOUBLE PUMP

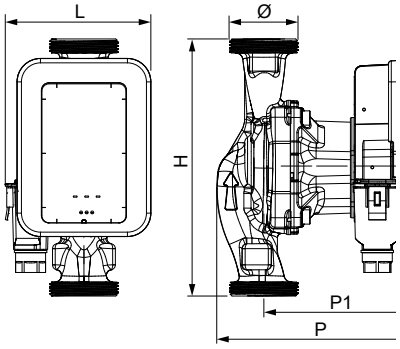
VEGA RTHE

7,6-13,0 H_{MAX} (mca)

page 505

Water circulators

VegA RMXA-RMYA NEW



ERP

- Domestic electronic single pump
- ErP ready

Description	H mm	H1 mm	L mm	P mm	P1 mm	Ø mm	Net weight kg
VEGA RMXA 25-40	180	76.3	101.9	128.6	94.6	Rp 1"	2,0
VEGA RMXA 25-60	180	76.3	101.9	128.6	94.6	Rp 1"	2,0
VEGA RMXA 32-40	180	76.3	101.9	140.3	106.3	Rp 1" 1/4	2,3
VegA RMXA 32-60	180	76.3	101.9	140.3	106.3	Rp 1" 1/4	2,3
VegA RMXA 32-80	180	76.3	101.9	140.3	106.3	Rp 1" 1/4	2,5
VegA RMYA 25-40	130	76.3	101.9	128.6	94.6	Rp 1"	2,0
VegA RMYA 25-60	130	76.3	101.9	128.6	94.6	Rp 1"	2,0
VegA RMYA 25-80	130	76.3	101.9	128.6	94.6	Rp 1"	2,2

High efficiency single glandless circulators, ideal for domestic systems, capable of ensuring high performances and energetic saving thanks both to the self-protected motor with ECM technology and the integrated electronic control able to adapt the operation in funcion of the system requirements.
Able to operate at different speeds (min,med,max) with three different operating modes: constant differential pressure, variable differential pressure, constant speed.

Features:
- Low energetic consumptions
- Silent operation
- Three different operating modes: n=cost, Δp-c, Δp-v
- Extremely compact dimensions thanks to the electrical connector positioned laterally
- Ease of regulation: with a single regulation button performance is determined according to the needs of the installation
- Thread connections

Operating limits
- Max operating pressure: 6 bar
- Operating temperature: from -10°C up to 95°C
- Protection degree: IP X2D

TECHNICAL DATA

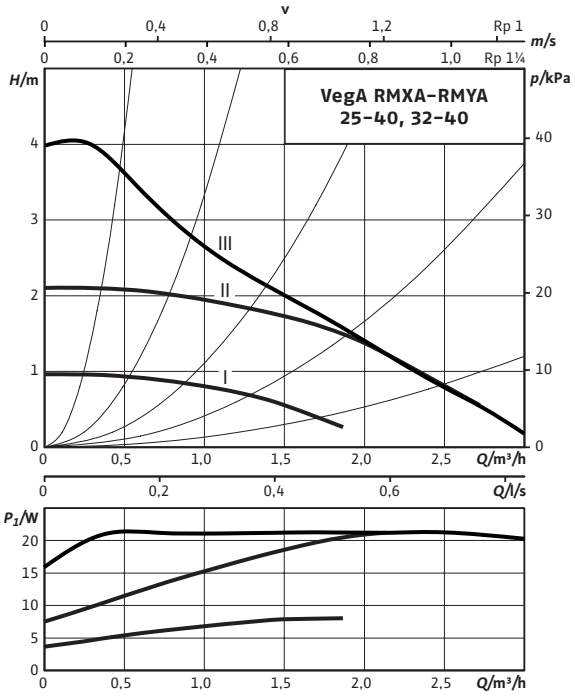
Description	Volume flow rate Q_{max} m³/h	Nominal pressure bar	Hydraulic head H_{max} mca	Code
VegA RMXA 25-40	3.0	6.0	4.1	**20188521**
VegA RMXA 25-60	3.0	6.0	6.0	**20188522**
VegA RMXA 32-40	3.0	6.0	4.1	**20188523**
VegA RMXA 32-60	3.0	6.0	6.0	**20188524**
VegA RMXA 32-80	4.3	6.0	7.6	**20188525**
VegA RMYA 25-40	3.0	6.0	4.1	**20188507**
VegA RMYA 25-60	3.0	6.0	6.0	**20188517**
VegA RMYA 25-80	4.3	6.0	7.6	**20188520**

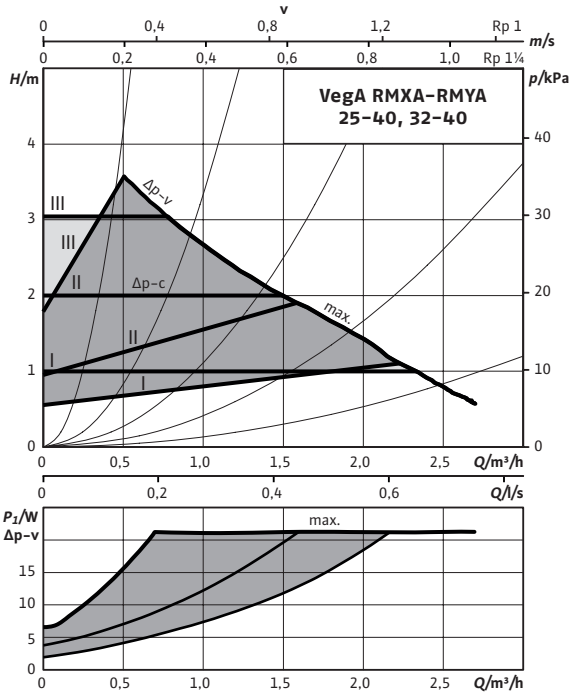
ACCESSORIES

Description	Code
BCT 25 pipe connection (DN25)	**4322904**
BCT 32 pipe connection (DN32)	**4322906**

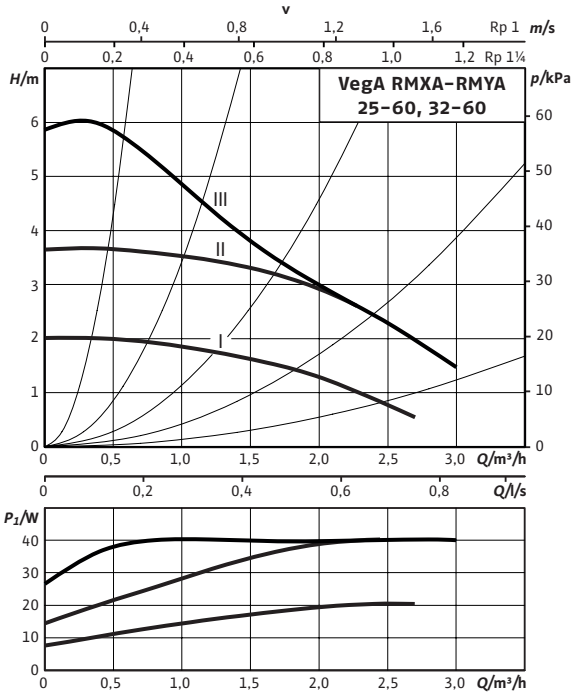
HYDRAULIC PERFORMANCES

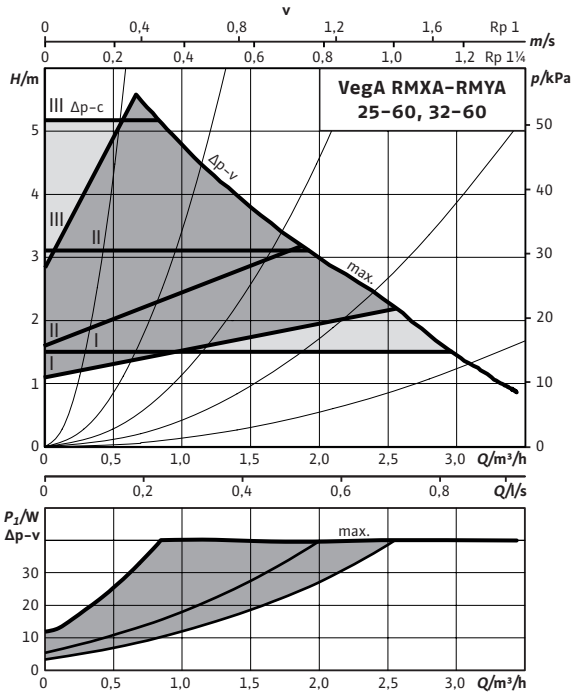
VegA RMXA- RMYA 25-40
VegA RMXA 32-40



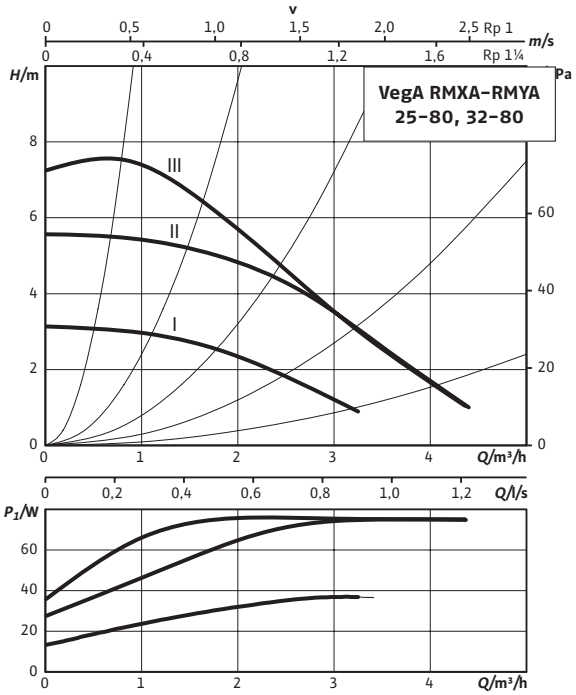


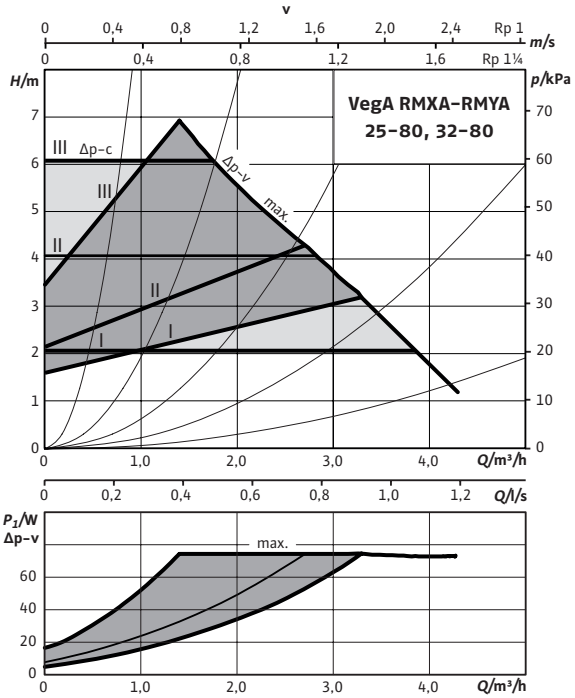
VegA RMXA-RMYA 25-60
VegA RMXA 32-60





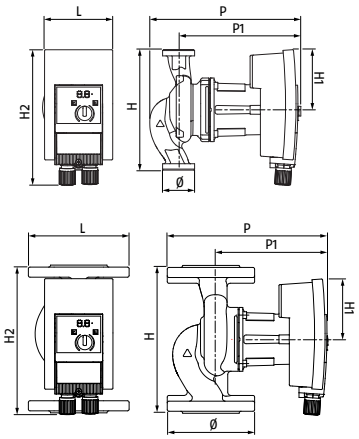
VegA RMXA-RMYA 32-80





Water circulators

VegA RSHE



ERP

- Electronic single pumps
- ErP ready

Description	H mm	H1 mm	H2 mm	L mm	P mm	P1 mm	Ø mm	Net weight kg
VegA RSHE 25-60 PN10	180	90	203	102	224	180	Rp 1" ½ (*)	4,5
VegA RSHE 25-70 PN10	180	90	203	102	224	180	Rp 1" ½ (*)	4,5
VegA RSHE 25-90 PN10	180	98	233	128	245	198	Rp 1" ½ (*)	5,3
VegA RSHE 30-60 PN10	180	90	203	102	224	180	Rp 2" (*)	4,6
VegA RSHE 30-70 PN10	180	90	203	102	224	180	Rp 2" (*)	4,6
VegA RSHE 30-90 PN10	180	98	233	128	245	198	Rp 2" (*)	5,4
VegA RSHE 32-70 PN6/10	220	98	233	128	255	207	DN32-PN6/10	11
VegA RSHE 40-30 PN6/10	220	90	223	102	232	175	DN40-PN6/10	8,6
VegA RSHE 40-60 PN6/10	220	98	245	128	249	201	DN40-PN6/10	9,2
VegA RSHE 40-80 PN6/10	250	109	277	142	379	315	DN40-PN6/10	13
VegA RSHE 50-70 PN6/10	280	109	292	142	371	318	DN50-PN6/10	14,2
VegA RSHE 50-80 PN6/10	280	109	292	142	371	318	DN50-PN6/10	14,2
VegA RSHE 65-80 PN6/10	280	109	292	142	384	327	DN65-PN6/10	16,1
VegA RSHE 65-90 PN6/10	340	169	340	174	404	334	DN65-PN6/10	25,8
VegA RSHE 65-110 PN6/10	340	169	340	174	395	329	DN65-PN6/10	27,5
VegA RSHE 80-90 PN10	360	169	360	174	414	330	DN80-PN10	30,4

(*) NOTE: By means of the thread pipe connections the diameter is reduced from Rp 1" ½ to Rp 1" and from Rp 2" to Rp 1" ¼.

Wet rotor electronic circulators with high-performance motor that ensure high performance and energy savings related to the electronic management system that allows to vary the operating speed of the rotor, ensuring the correct input required by the system. Possibility to select the differential pressure regulation in constant or variable mode or to have the manual selection of the three speeds.
Circulators suitable for all heating, air conditioning and closed refrigeration circuits.

Features:
- Low energy consumptions
- Silent operation
- Easy wiring thanks to the front accessibility to the terminal block
- Pump body material suitable to avoid the corrosion due to the condensate
- LED indicator to set up either the hydraulic head or to display the error codes
- Power supply: 230V, 50/60 Hz

Operating limits:
- Max operating pressure: 10 bar
- Temperature range: from 20 °C up to 110 °C
- Protection degree: IP X4D

TECHNICAL DATA

Description	Volume flow rate Q_{max} m³/h	Nominal pressure bar	Maximum hydraulic head H_{max} mca	Notes	Code
VegA RSHE 25-60 PN10	8.2	10	7.4		**20182746**
VegA RSHE 25-70 PN10	9.6	10	10.8		**20182765**
VegA RSHE 25-90 PN10	11.7	10	12.1	(D)	**20182766**
VegA RSHE 30-60 PN10	8.2	10	7.4		**20182767**
VegA RSHE 30-70 PN10	9.6	10	10.8		**20182768**
VegA RSHE 30-90 PN10	11.7	10	12.1		**20182771**
VegA RSHE 32-70 PN6/10	13.0	6/10	9.0		**20182772**
VegA RSHE 40-30 PN6/10	12.7	6/10	5.4		**20182773**
VegA RSHE 40-60 PN6/10	18.2	6/10	8.5		**20182774**
VegA RSHE 40-80 PN6/10	24.8	6/10	13.0		**20182775**
VegA RSHE 50-70 PN6/10	29.0	6/10	10.2		**20182776**
VegA RSHE 50-80 PN6/10	31.2	6/10	12.8		**20182777**
VegA RSHE 65-80 PN6/10	32.0	6/10	10.1		**20182778**
VegA RSHE 65-90 PN6/10	46.2	6/10	11.6		**20182779**
VegA RSHE 65-110 PN6/10	55.5	6/10	17.1		**20182781**
VegA RSHE 80-90 PN10	64.0	10	13.5	(D)	**20182782**

(D) Availability of the material at our warehouse: 20 working days after the order validation date.

ACCESSORIES

Description	Notes	Code
COUNTER FLANGE KIT		
DN32 PN 6 counter flange	(D)	**20158976**
DN40 PN 6 counter flange	(D)	**20158977**
DN50 PN 6 counter flange	(D)	**20158979**
DN65 PN 6 counter flange	(D)	**20158980**
DN80 PN 10/16 counter flange	(D)	**20158983**
INTERMEDIATE FLANGE FOR LENGTH COMPENSATION		
DN40 intermediate flange		**20158985**
DN50 intermediate flange		**20158986**
DN65 intermediate flange		**20158987**
PIPE CONNECTIONS		
BCT 25 pipe connection (DN25)		**4322904**
BCT 32 pipe connection (DN32)		**4322906**
CONNECT MODULE		
Connect module	(1)	**20182901**

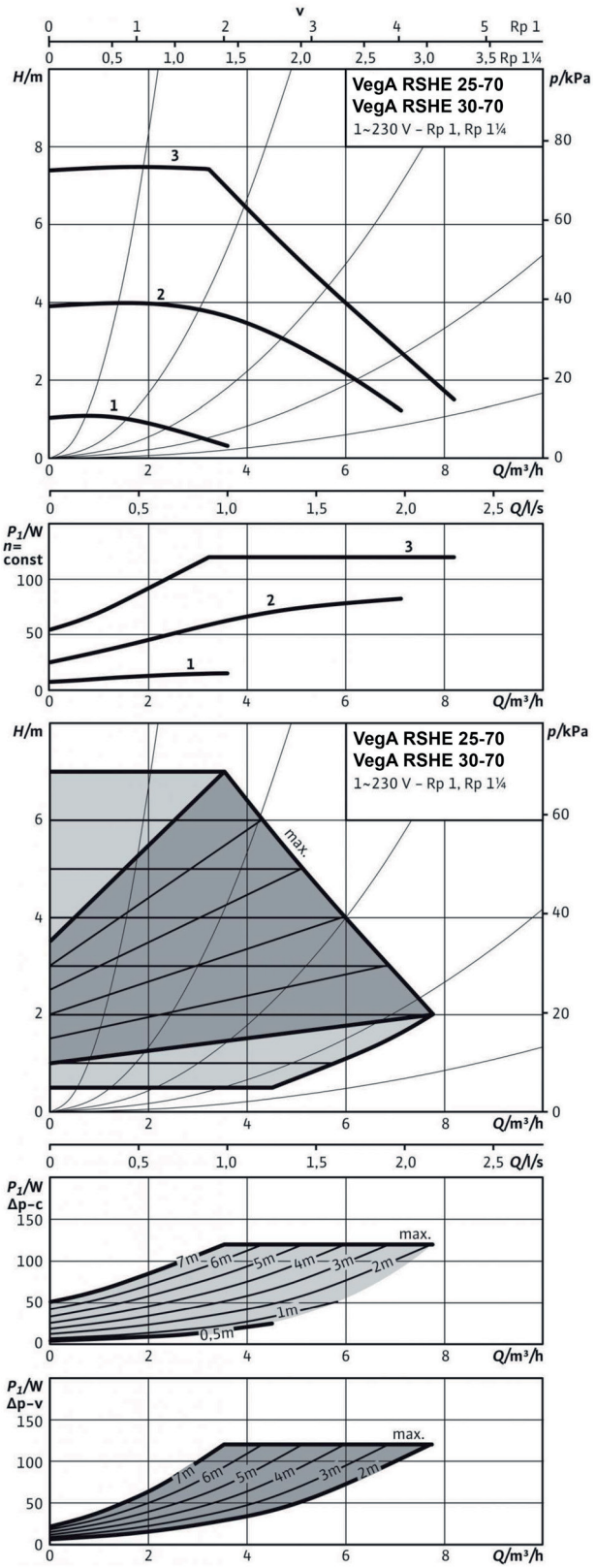
(D) Availability of the material at our warehouse: 7 working days after the order validation date.
(1) Order one for each circulator.

ACCESSORIES MATCHING TABLE

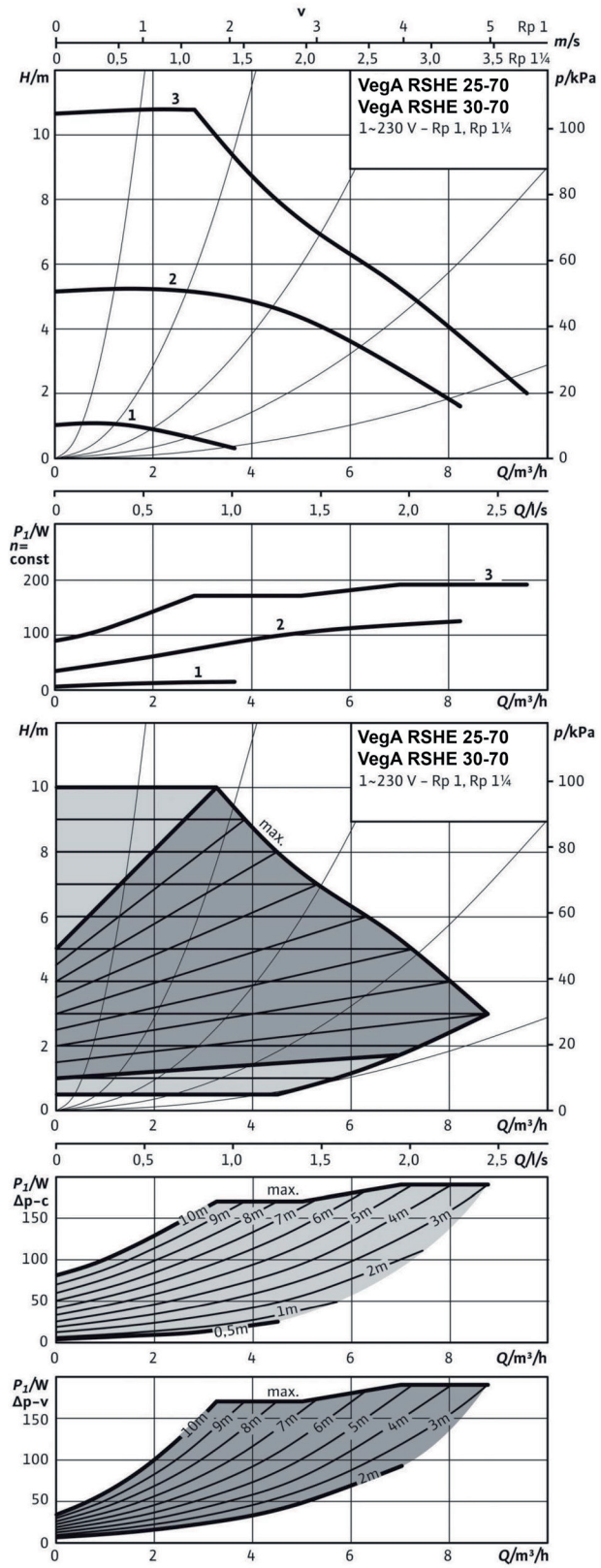
Description	Code	4322904	4322906	20158977	20158979	20158980	20158983
		BCT 25 pipe connection (DN25)	BCT 32 pipe connection (DN32)	DN40 PN6 counter flange	DN50 PN6 counter flange	DN65 PN6 counter flange	DN80 PN10/16 counter flange
VegA RSHE 25-60 PN10	**20182746**	●					
VegA RSHE 25-70 PN10	**20182765**	●					
VegA RSHE 25-90 PN10	**20182766**	●					
VegA RSHE 30-60 PN10	**20182767**		●				
VegA RSHE 30-70 PN10	**20182768**		●				
VegA RSHE 30-90 PN10	**20182771**		●				
VegA RSHE 40-30 PN6/10	**20182773**			●			
VegA RSHE 40-60 PN6/10	**20182774**			●			
VegA RSHE 40-80 PN6/10	**20182775**			●			
VegA RSHE 50-70 PN6/10	**20182776**				●		
VegA RSHE 50-80 PN6/10	**20182777**				●		
VegA RSHE 65-80 PN6/10	**20182778**					●	
VegA RSHE 65-90 PN6/10	**20182779**					●	
VegA RSHE 65-110 PN6/10	**20182781**					●	
VegA RSHE 80-90 PN10	**20182782**						●

HYDRAULIC PERFORMANCES

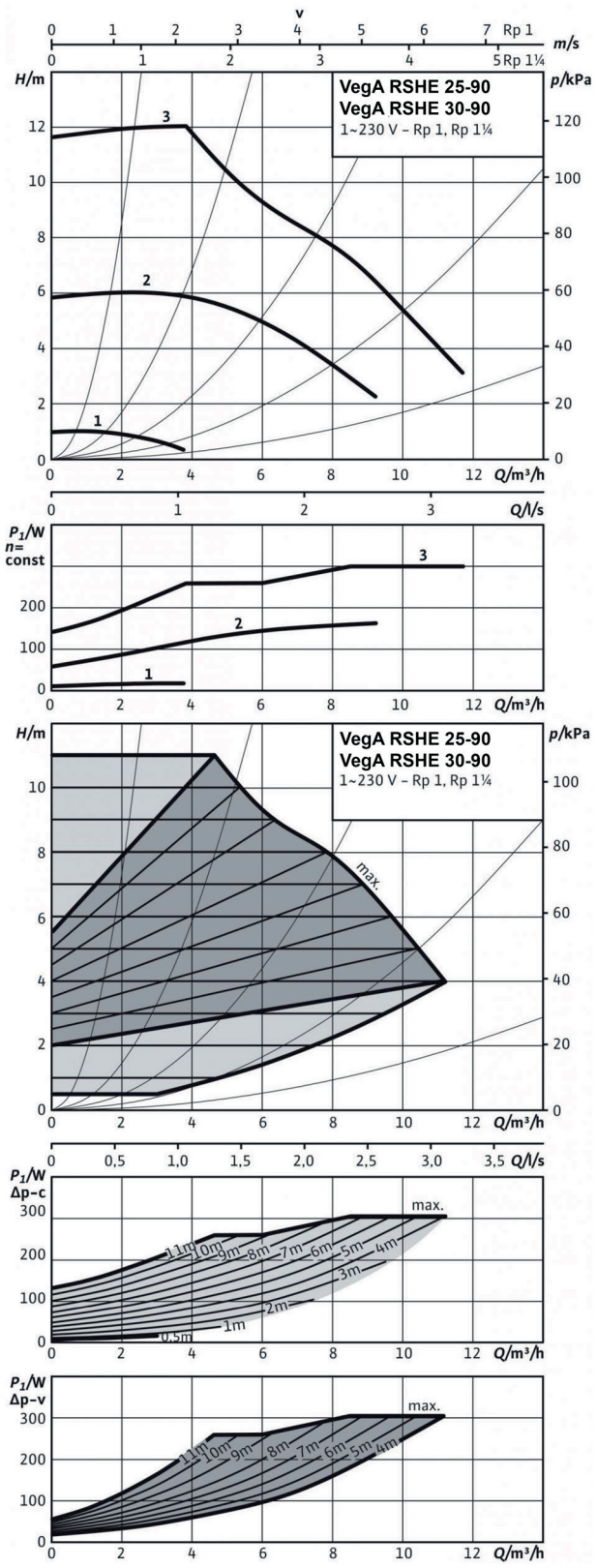
VegA RSHE 25-60 PN10
VegA RSHE 30-60 PN10



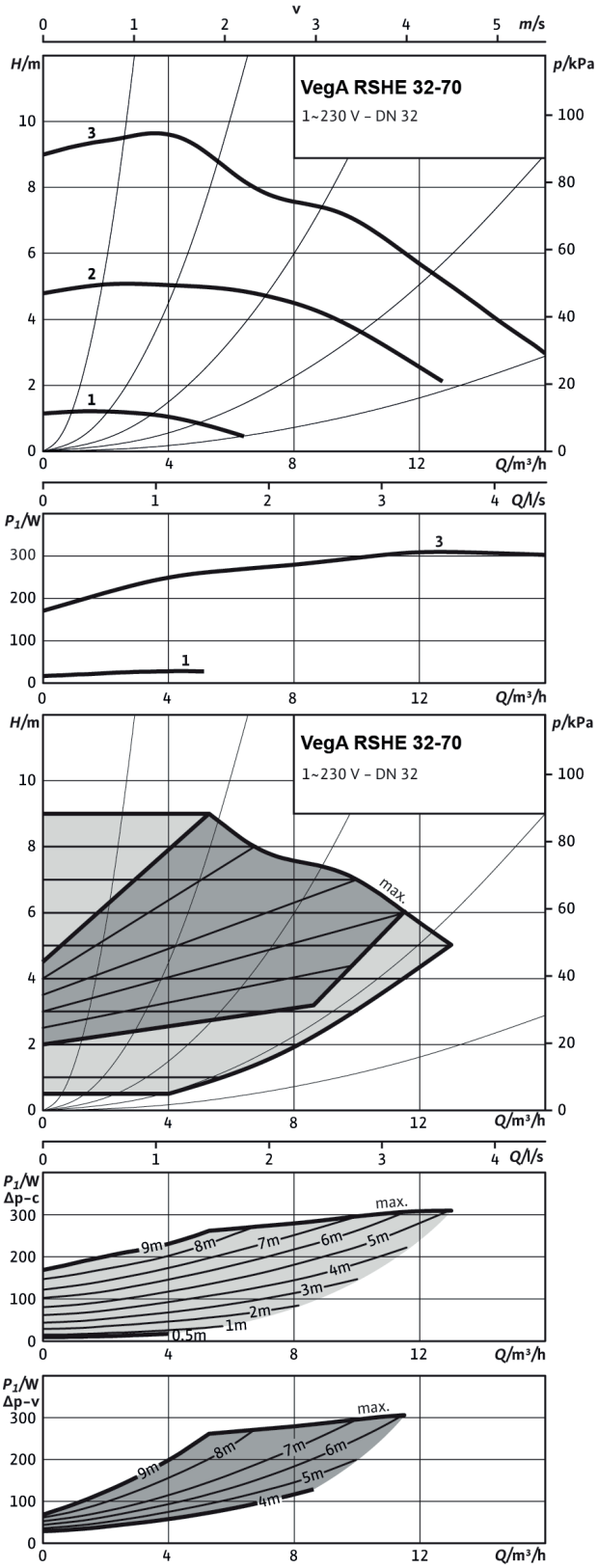
VegA RSHE 25-70 PN10
VegA RSHE 30-70 PN10



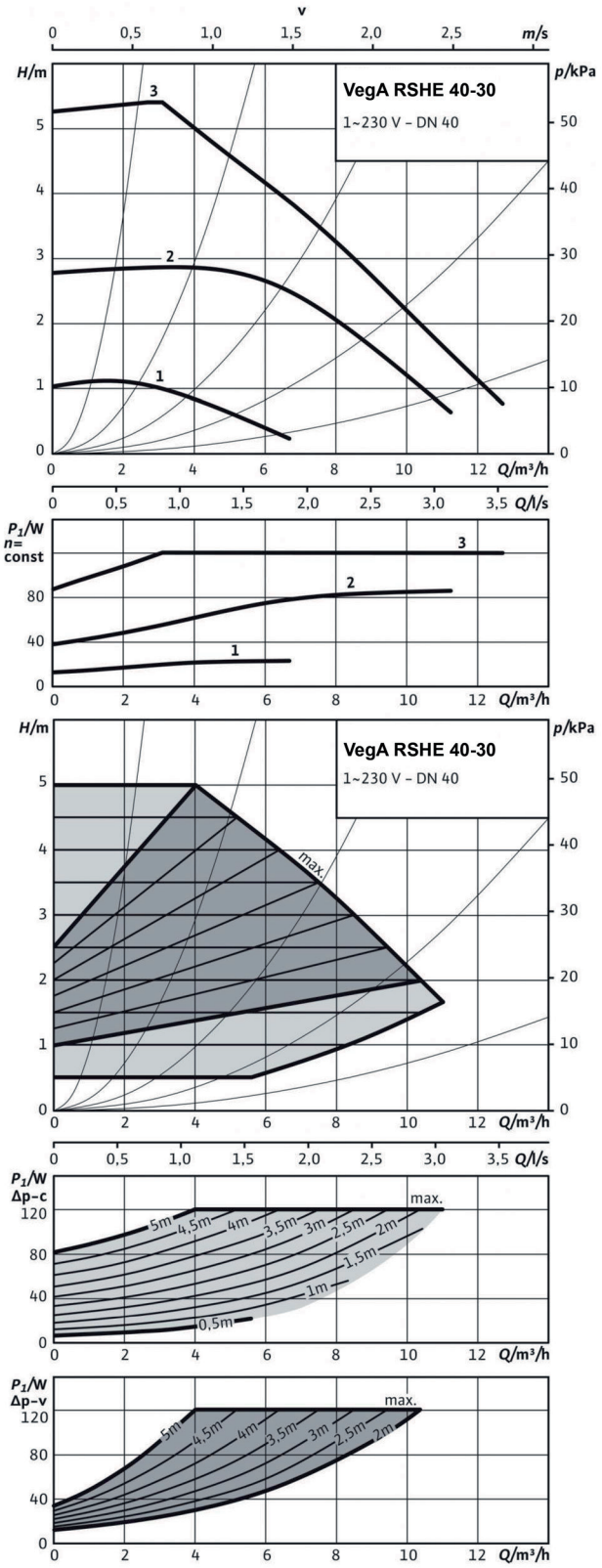
VegA RSHE 25-90 PN10
VegA RSHE 30-90 PN10



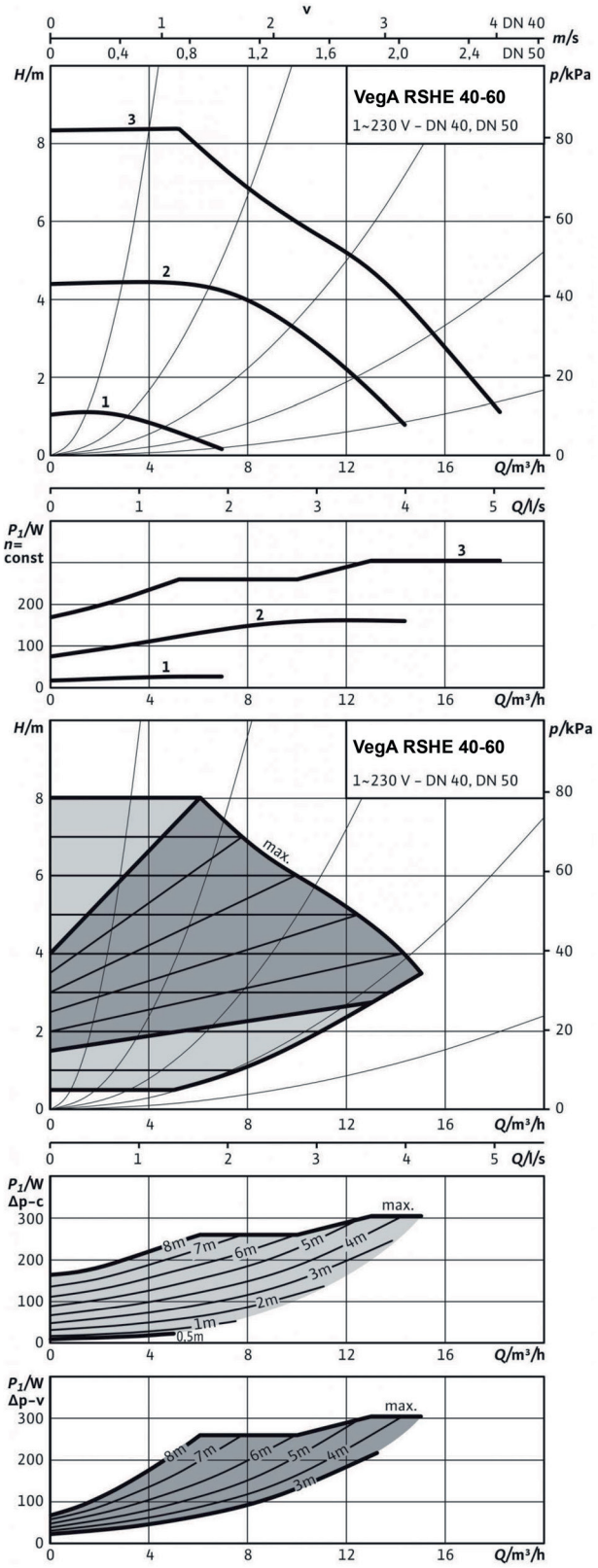
VegA RSHE 32-70 PN6/10



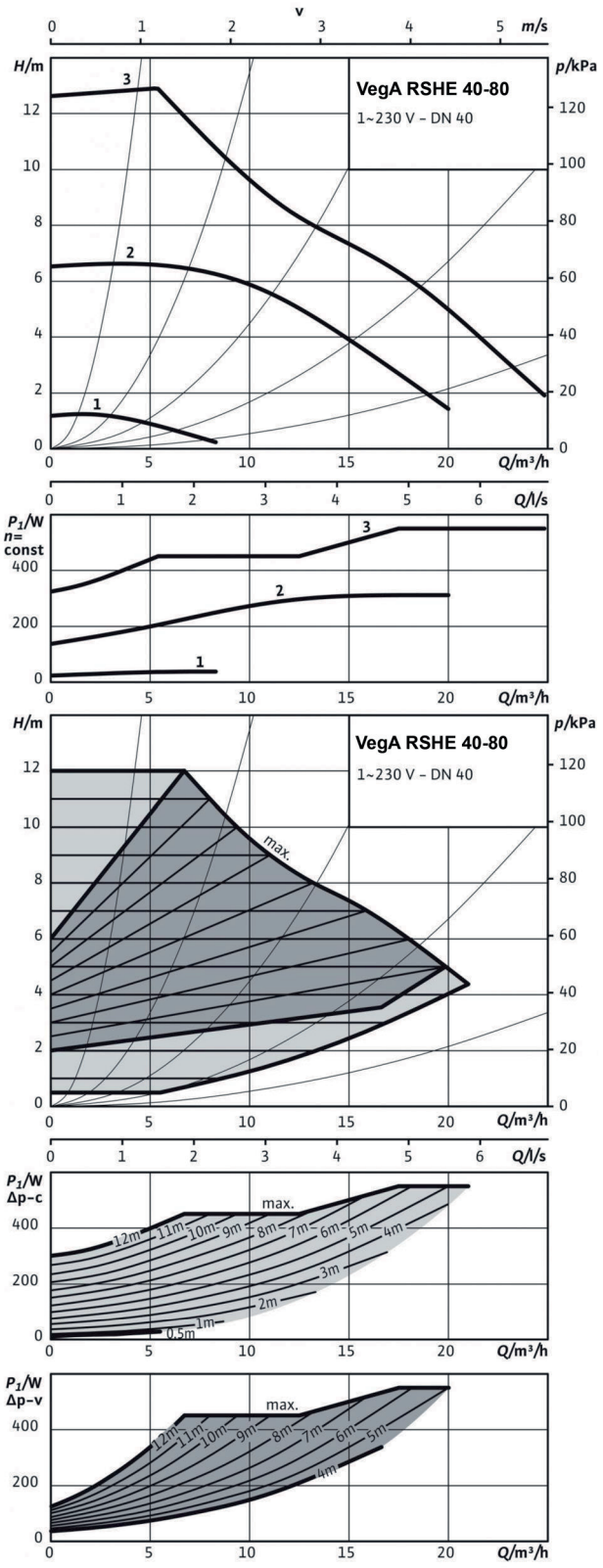
VegA RSHE 40-30 PN6/10



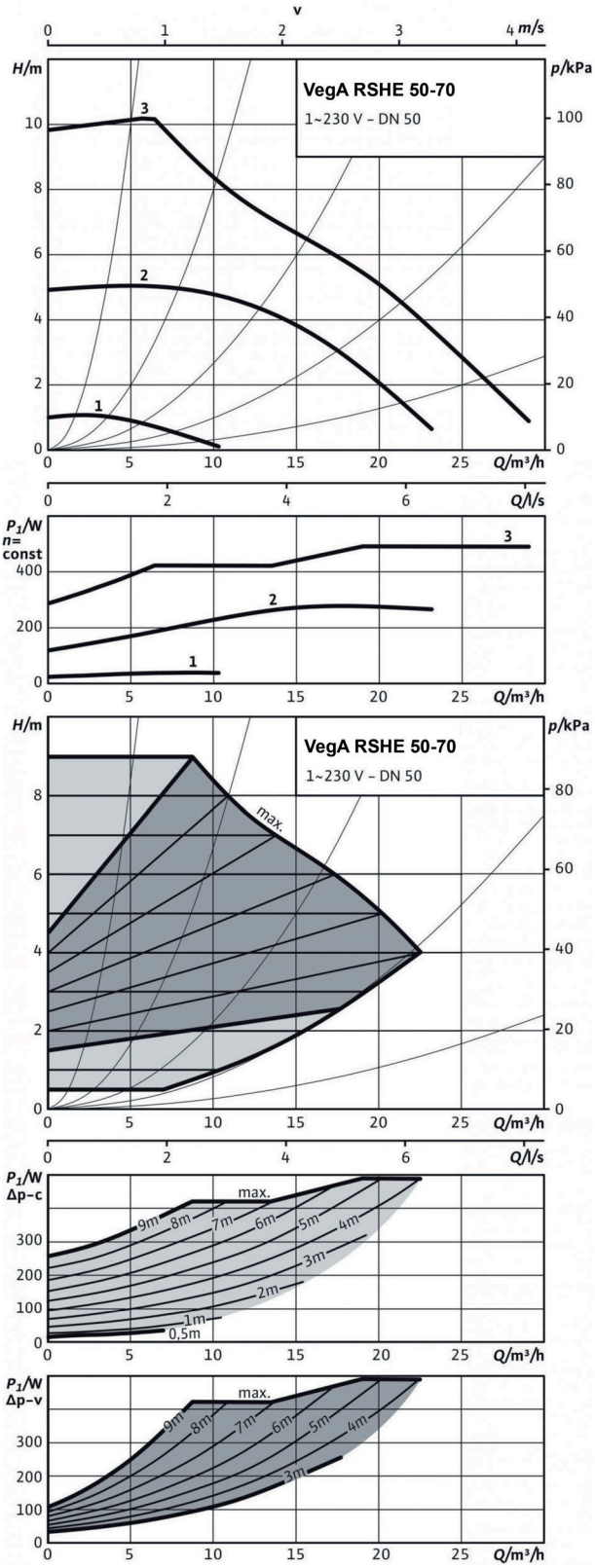
VegA RSHE 40-60 PN6/10



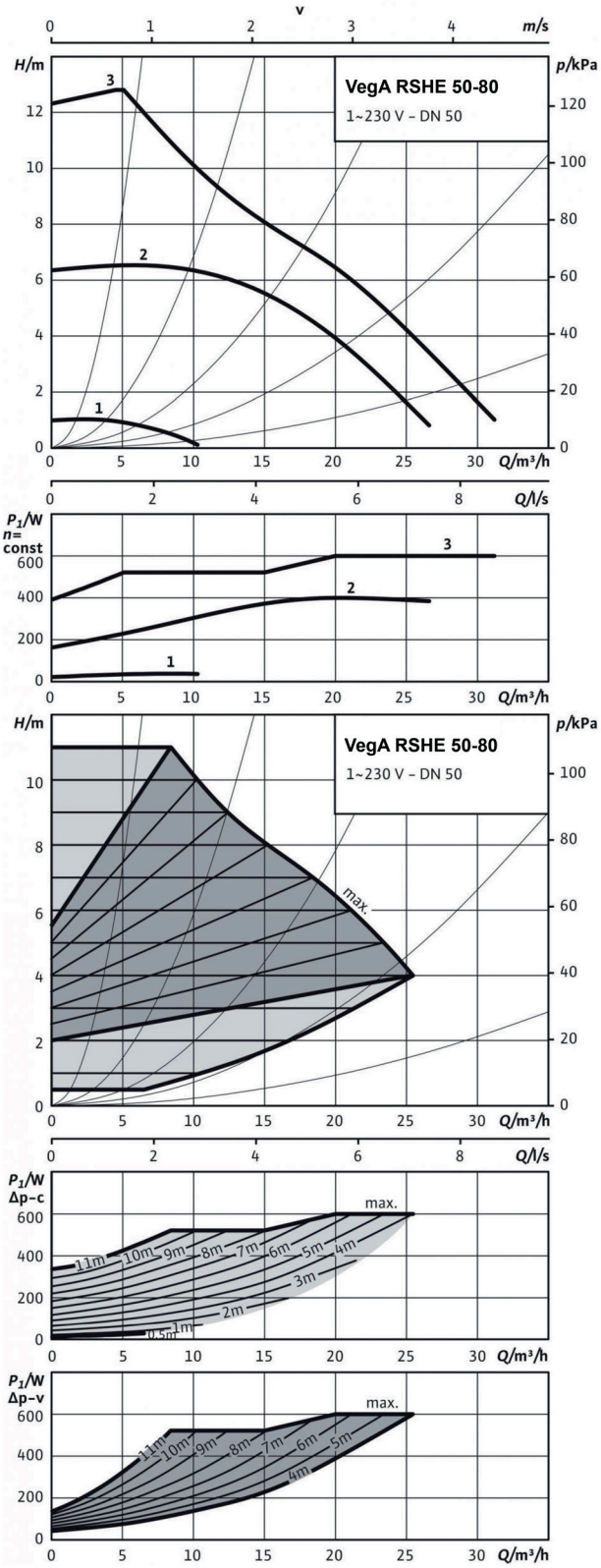
VegA RSHE 40-80 PN6/10



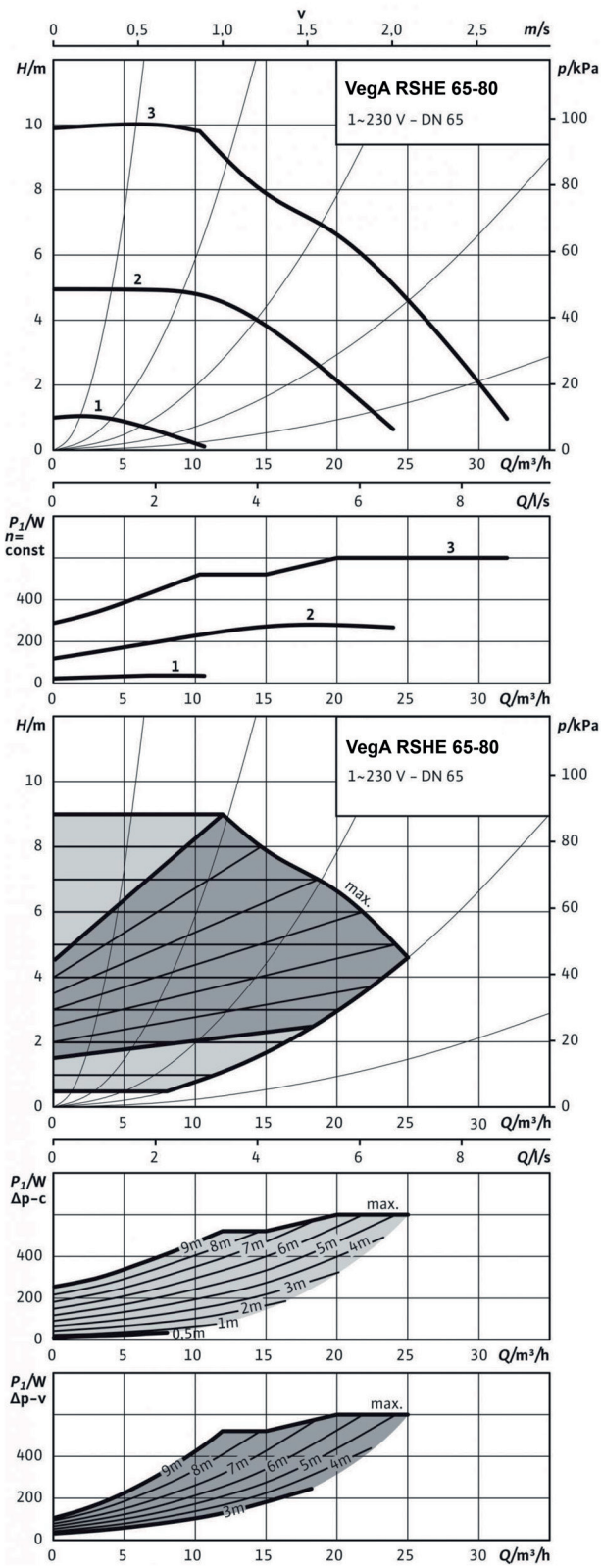
VegA RSHE 50-70 PN6/10



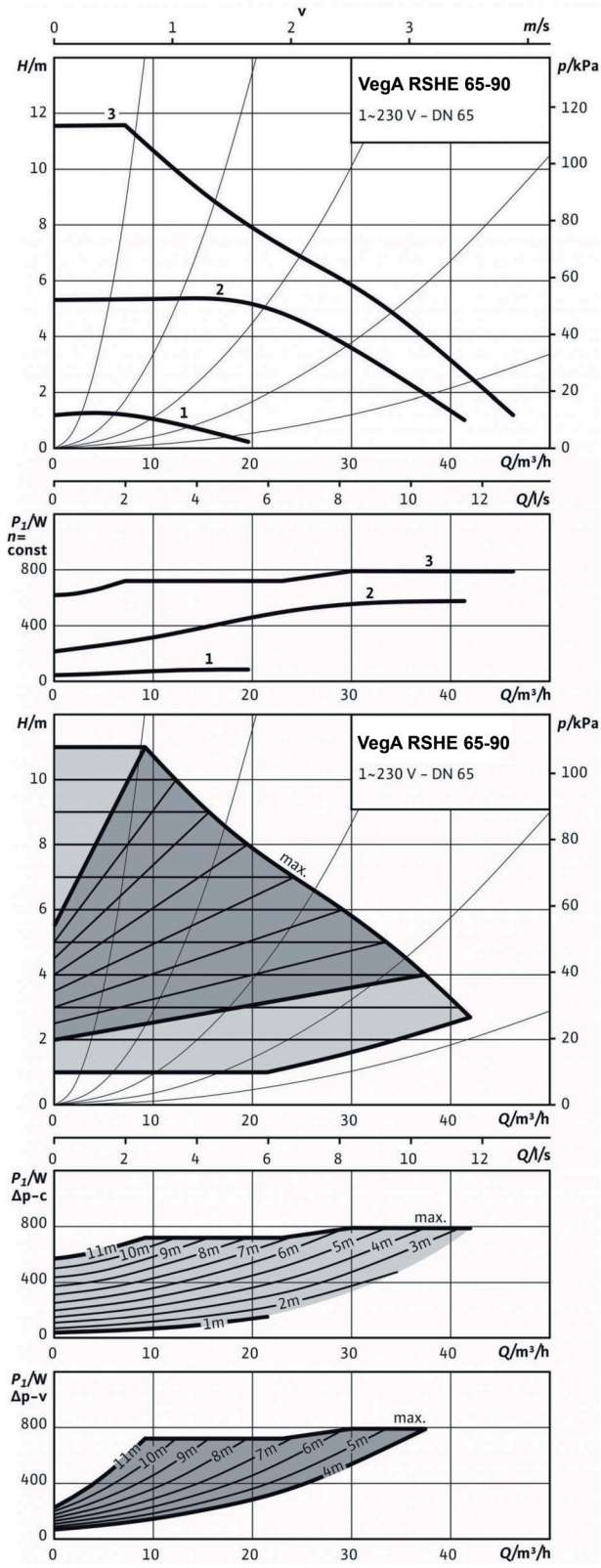
VegA RSHE 50-80 PN6/10



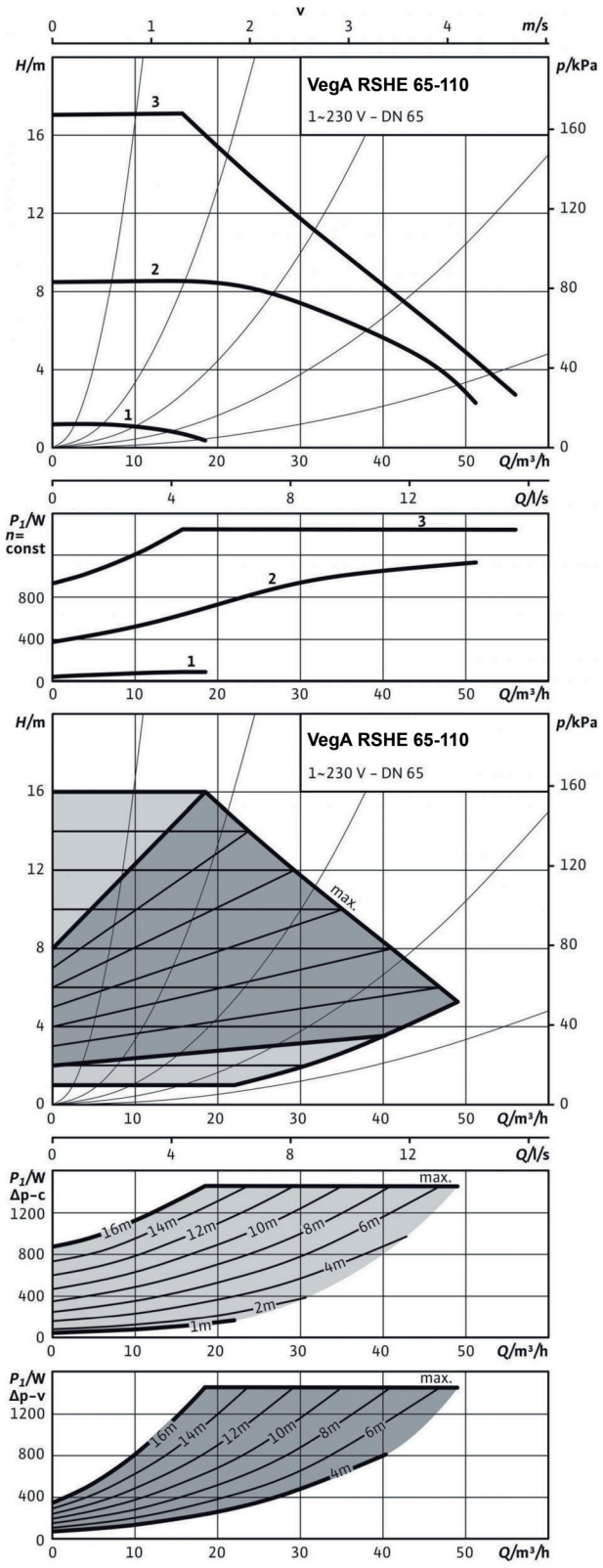
VegA RSHE 65-80 PN6/10



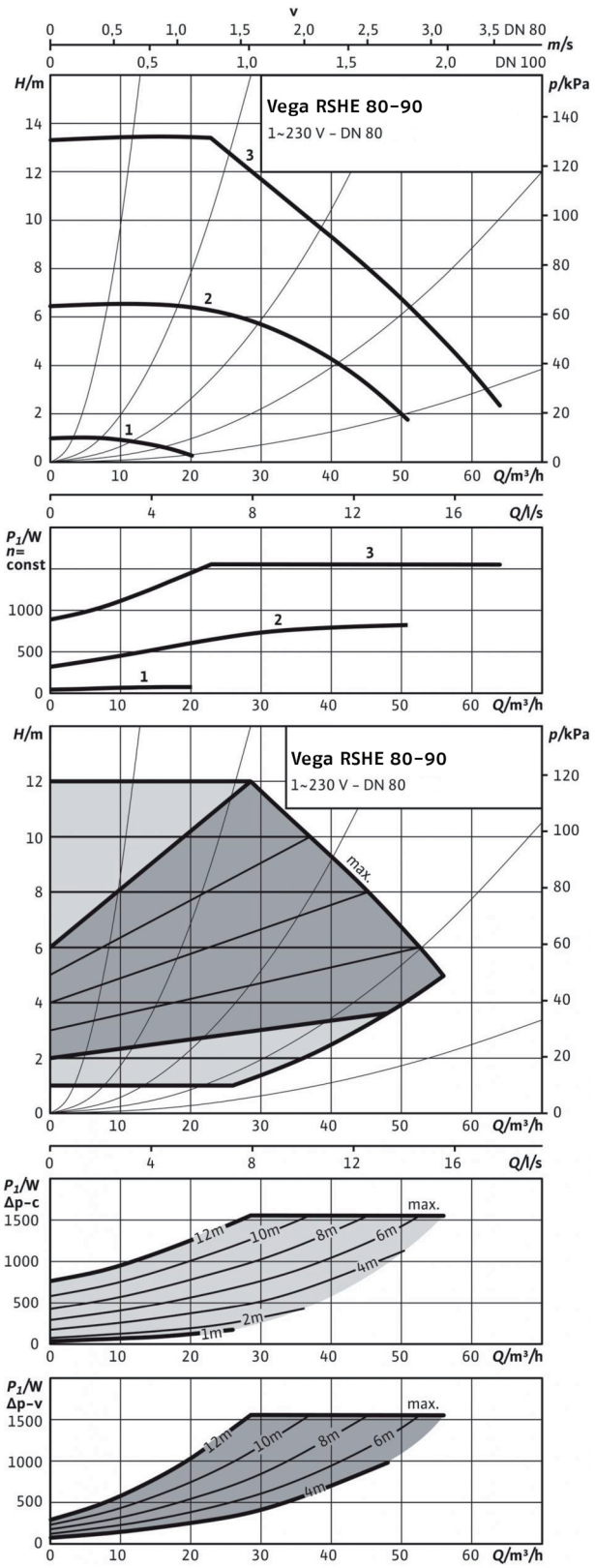
VegA RSHE 65-90 PN6/10



VegA RSHE 65-110 PN6/10

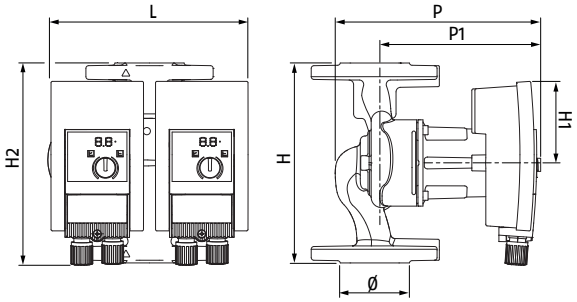


VegA RSHE 80-90 PN10



Water circulators

VegA RTHE



ERP

- Electronic twin pumps
- ErP ready

Description	H mm	H1 mm	H2 mm	L mm	P mm	P1 mm	Ø mm	Net weight kg
VegA RTHE 32-60 PN6/10	220	110	223	231	240	180	DN32-PN6/10	10,4
VegA RTHE 32-80 PN6/10	220	110	245	251	321	364	DN32-PN6/10	17,1
VegA RTHE 40-60 PN6/10	220	110	245	269	330	266	DN40-PN6/10	17,5
VegA RTHE 40-80 PN6/10	250	125	277	302	388	326	DN40-PN6/10	24
VegA RTHE 50-70 PN6/10	280	140	292	310	392	330	DN50-PN6/10	26,4
VegA RTHE 50-80 PN6/10	280	140	292	310	392	330	DN50-PN6/10	26
VegA RTHE 50-110 PN6/10	340	170	340	398	385	315	DN50-PN6/10	47,2
VegA RTHE 65-90 PN6/10	340	170	340	406	422	334	DN65-PN6/10	50,7
VegA RTHE 80-90 PN6	360	170	360	456	439	339	DN80-PN6	56,6
VegA RTHE 80-90 PN10	360	170	360	456	439	339	DN80-PN10	56,6

Wet rotor electronic circulators, twin type, with high-performance motor that ensure high performance and energy savings related to the electronic management system that allows to vary the operating speed of the rotor, ensuring the correct input required by the system. Possibility to select the differential pressure regulation in constant or variable mode or to have the manual selection of the three speeds.
Circulators suitable for all heating, air conditioning and closed refrigeration circuits.

Features:
- Low energy consumptions
- Silent operation
- Easy wiring thanks to the front accessibility to the terminal block
- Pump body material suitable to avoid the corrosion due to the condensate
- LED indicator to set up either the hydraulic head or to display the error codes
- Power supply: 230V, 50/60 Hz

Operating limits:
- Max operating pressure: 10 bar
- Temperature range: from 20°C up to 110°C
- Protection degree: IP X4D

TECHNICAL DATA

Description	Volume flow rate Q_{max} m³/h	Nominal pressure bar	Maximum hydraulic head H_{max} mca	Notes	Code
VegA RTHE 32-60 PN6/10	7.9	6/10	7.6		**20182783**
VegA RTHE 32-80 PN6/10	13.3	6/10	9.2	(D)	**20182784**
VegA RTHE 40-60 PN6/10	17.5	6/10	8.0		**20182785**
VegA RTHE 40-80 PN6/10	22.0	6/10	12.3		**20182786**
VegA RTHE 50-70 PN6/10	26.4	6/10	9.6		**20182787**
VegA RTHE 50-80 PN6/10	26.0	6/10	12.1		**20182788**
VegA RTHE 50-110 PN6/10	39.0	6/10	16.4	(D)	**20182789**
VegA RTHE 65-90 PN6/10	43.0	6/10	11.5		**20182790**
VegA RTHE 80-90 PN6	61.0	6	13.0	(D)	**20182791**
VegA RTHE 80-90 PN10	61.0	10	13.0	(D)	**20182792**

(D) Availability of the material at our warehouse: 20 working days after the order validation date.

ACCESSORIES

Description	Notes	Code
COUNTER FLANGE KIT		
DN32 PN 6 counter flange	(D)	**20158976**
DN40 PN 6 counter flange	(D)	**20158977**
DN50 PN 6 counter flange	(D)	**20158979**
DN65 PN 6 counter flange	(D)	**20158980**
DN80 PN 6 counter flange	(D)	**20158981**
DN80 PN 10/16 counter flange	(D)	**20158983**
INTERMEDIATE FLANGE FOR LENGTH COMPENSATION		
DN40 intermediate flange		**20158985**
DN50 intermediate flange		**20158986**
DN65 intermediate flange		**20158987**
CONNECT MODULE		
Connect module	(1)	**20182901**

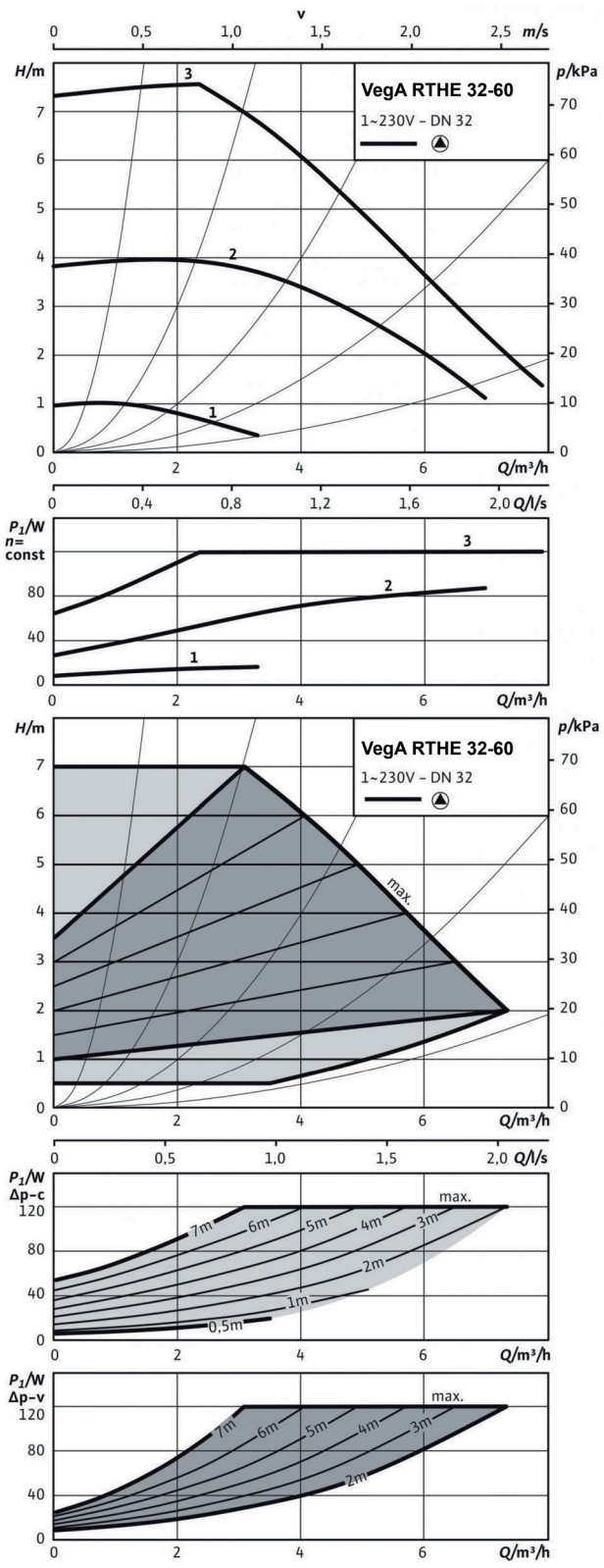
(D) Availability of the material at our warehouse: 7 working days after the order validation date.
(1) Order one for each circulator.

ACCESSORIES MATCHING TABLE

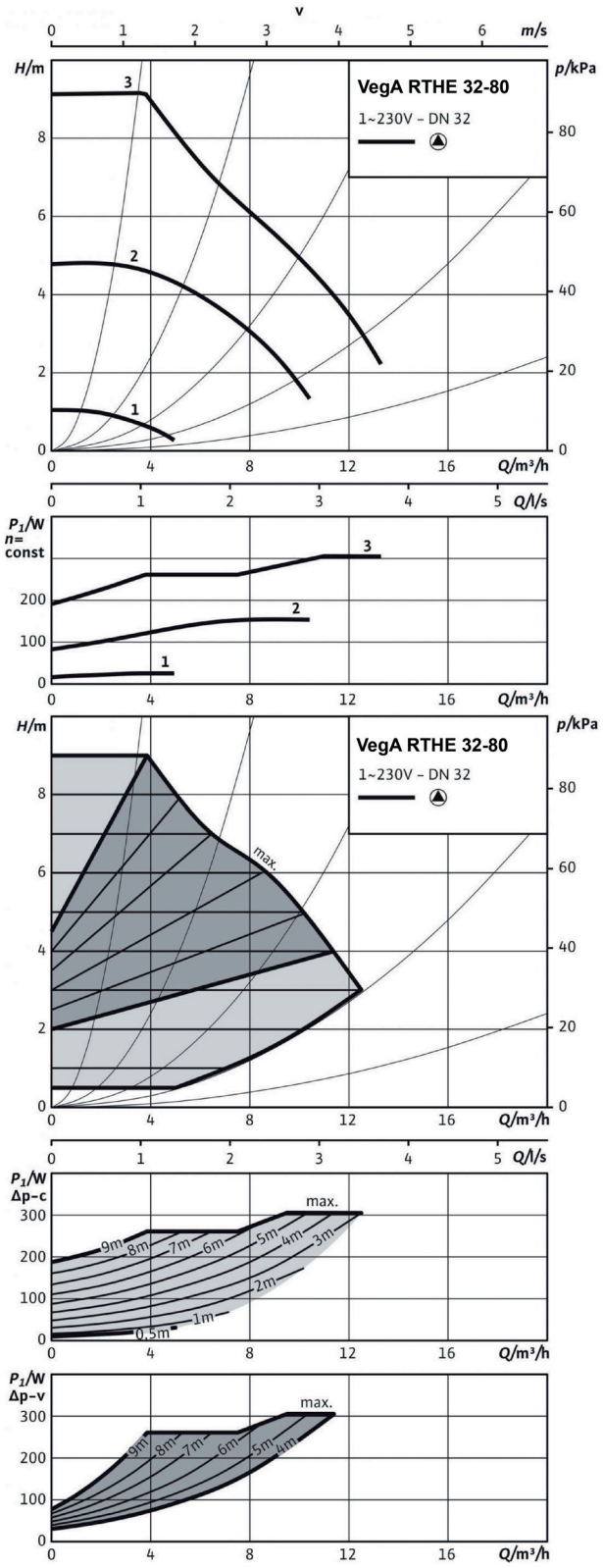
Description	Code	20158976	20158977	20158979	20158980	20158981	20158983
		DN32 PN 6 counter flange	DN40 PN 6 counter flange	DN50 PN 6 counter flange	DN65 PN 6 counter flange	DN80 PN 6 counter flange	DN80 PN 10/16 counter flange
VegA RTHE 32-60 PN6/10	**20182783**	●					
VegA RTHE 32-80 PN6/10	**20182784**	●					
VegA RTHE 40-60 PN6/10	**20182785**		●				
VegA RTHE 40-80 PN6/10	**20182786**		●				
VegA RTHE 50-70 PN6/10	**20182787**			●			
VegA RTHE 50-80 PN6/10	**20182788**			●			
VegA RTHE 50-110 PN6/10	**20182789**			●			
VegA RTHE 65-90 PN6/10	**20182790**				●		
VegA RTHE 80-90 PN6	**20182791**					●	
VegA RTHE 80-90 PN10	**20182792**						●

HYDRAULIC PERFORMANCES

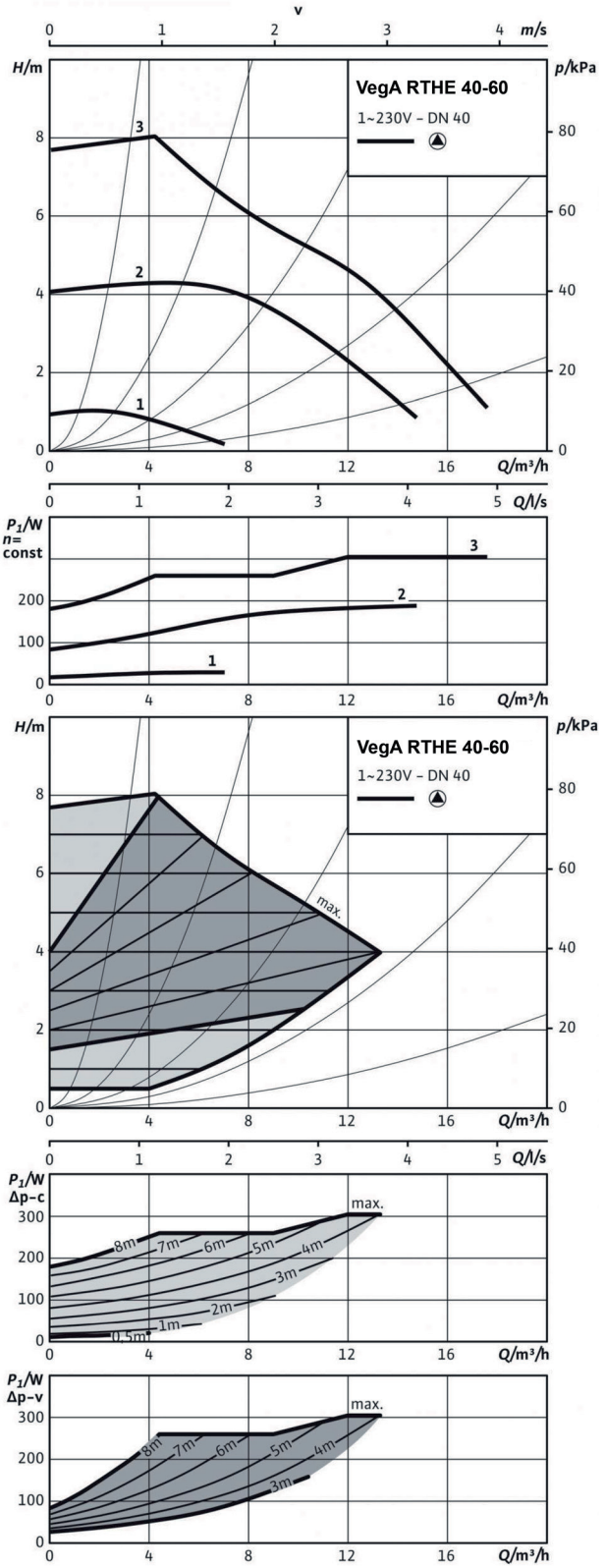
VegA RTHE 32-60 PN6/10



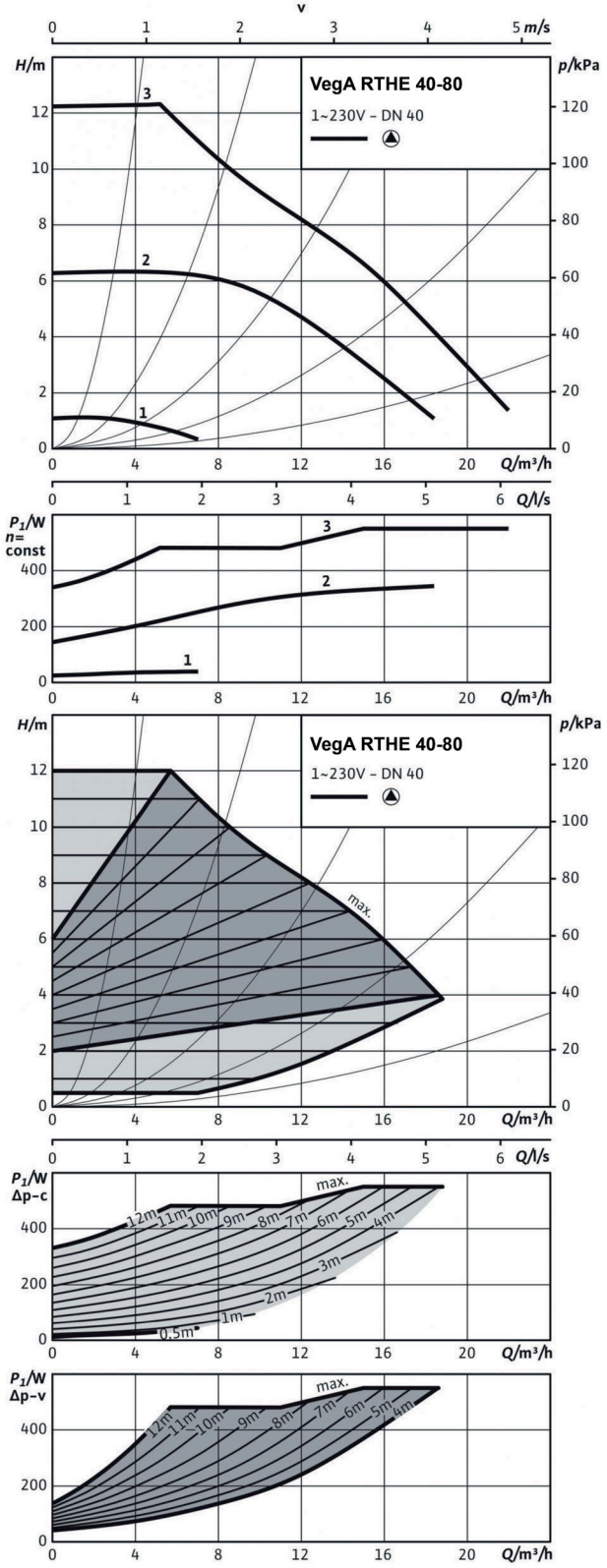
VegA RTHE 32-80 PN6/10



VegA RTHE 40-60 PN6/10



VegA RTHE 40-80 PN6/10



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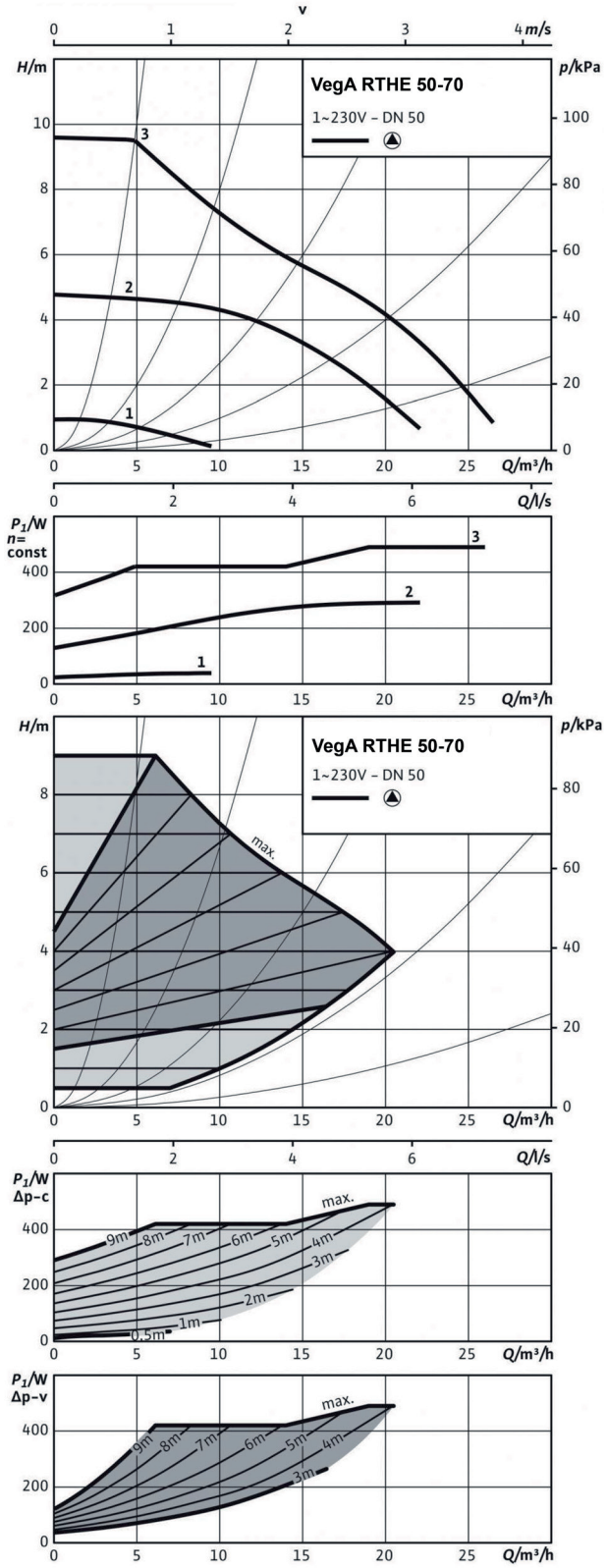

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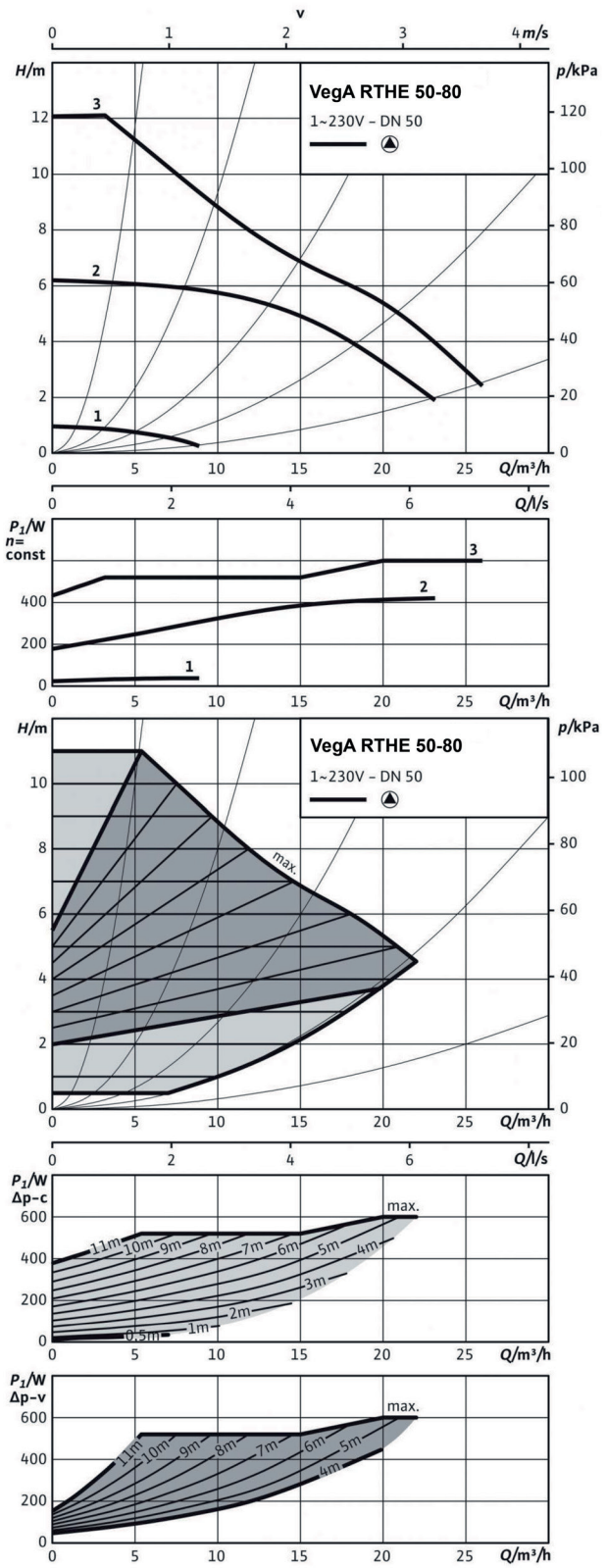

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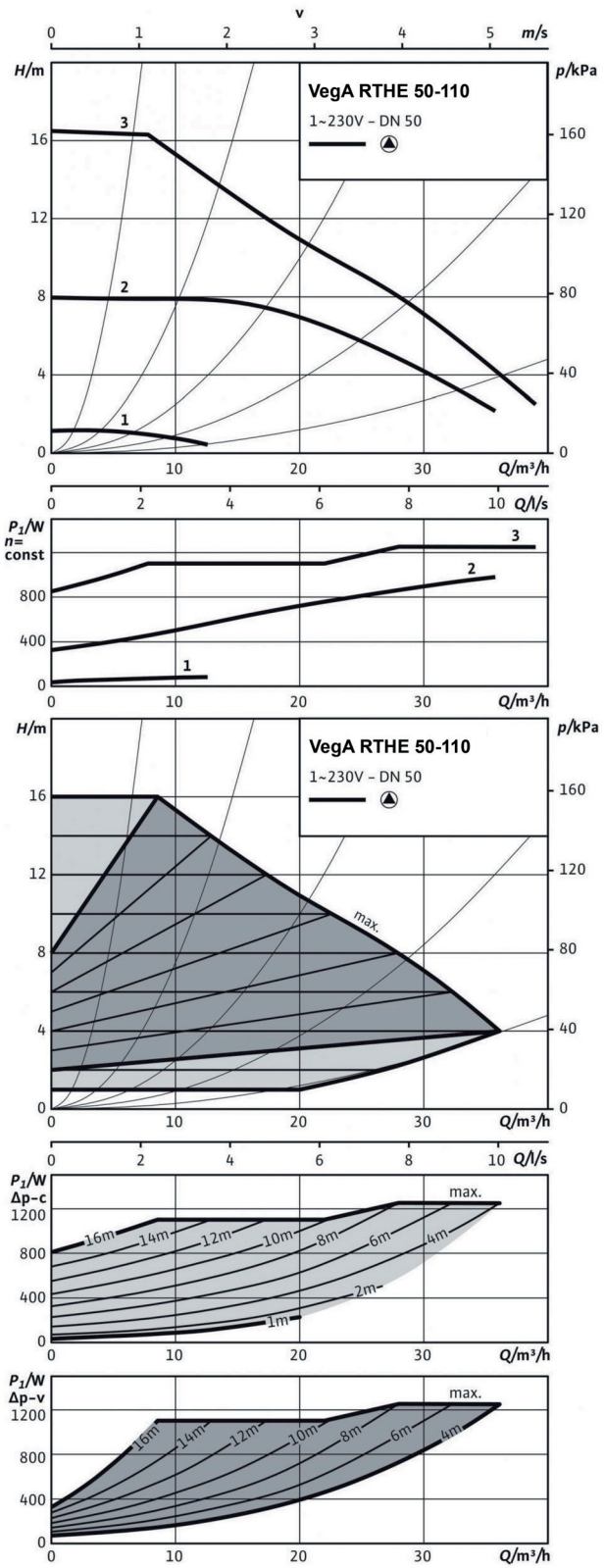
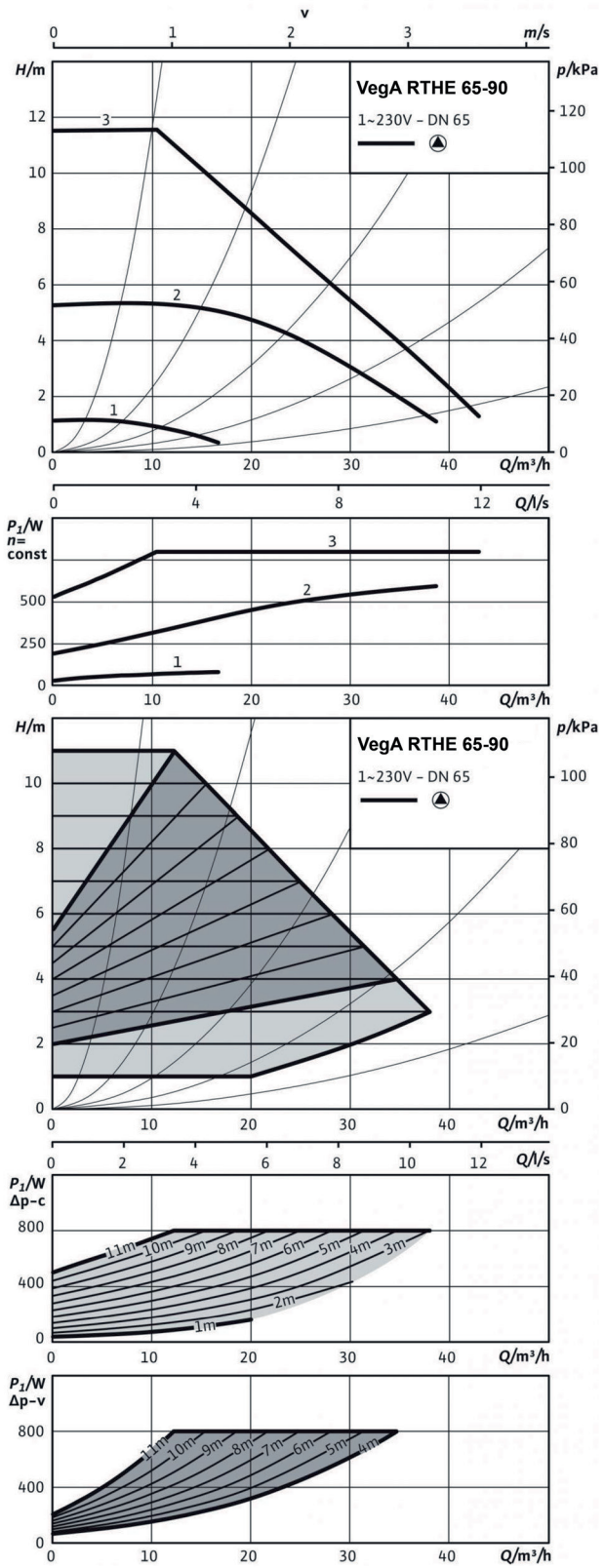
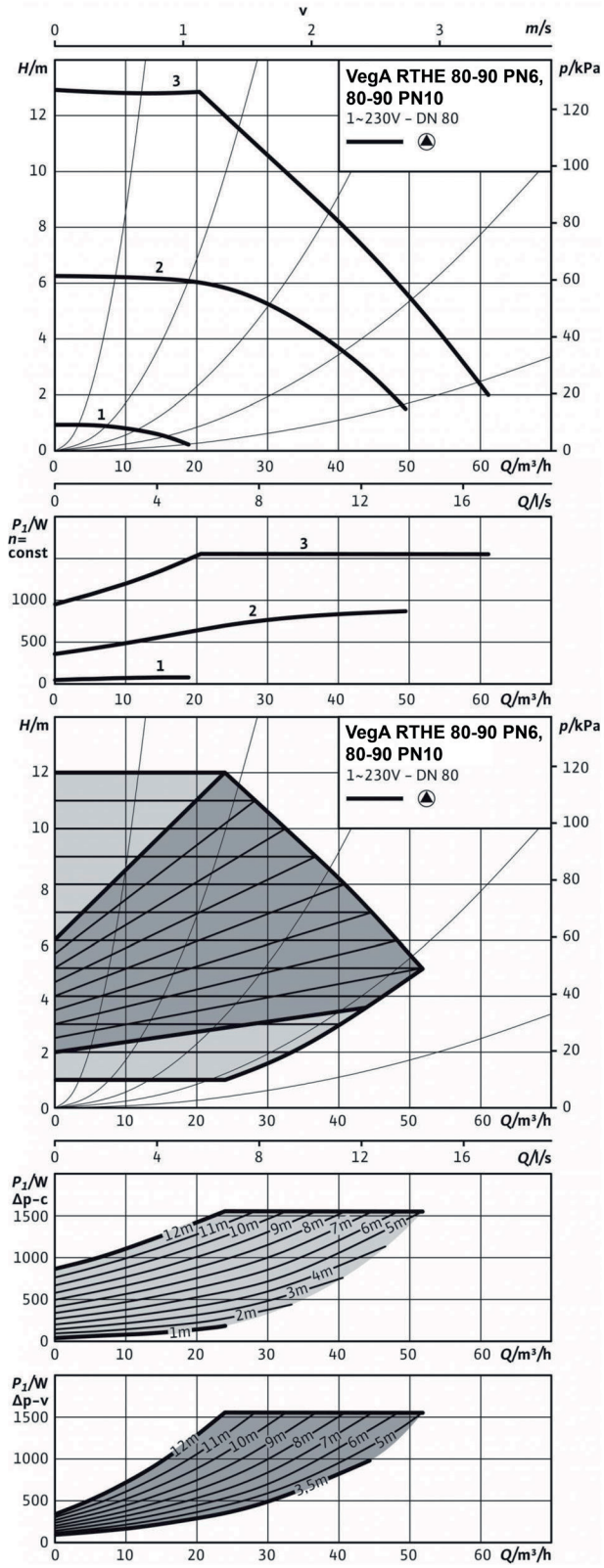


VegA RTHE 65-90 PN6/10



VegA RTHE 80-90 PN6
VegA RTHE 80-90 PN10



HOT AIR GENERATORS

GAS HOT AIR GENERATORS

INTERNAL

GAS HOT AIR GENERATORS

GP CONDENS

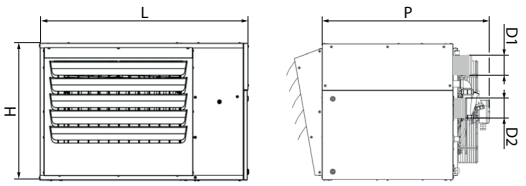
GP CONDENS 30 (28 kW-3200 m³/h)*
GP CONDENS 40 (37 kW-4400 m³/h)*
GP CONDENS 50 (48 kW-5500 m³/h)*
GP CONDENS 60 (57 kW-6500 m³/h)*
GP CONDENS 90 (89 kW-10000 m³/h)*
GP CONDENS 120 (115 kW-13000 m³/h)*

page 516

(*) Max useful power at 80-60 °C

High efficiency indoor gas hot air generators

GP Condens



ERP

- Wall-mounted gas hot air generators, pre-mixed, high efficiency
- Up to 106% efficiency
- Axial fans

Description	H mm	L mm	P mm	D1 (*) mm	D2 (*) mm	Net weight kg
GP CONDENS 30	885	560	580	80	80	65
GP CONDENS 40	885	560	580	80	80	75
GP CONDENS 50	1225	610	650	80	80	90
GP CONDENS 60	1225	610	650	80	80	95
GP CONDENS 90	1775	710	800	100	100	205
GP CONDENS 120	1775	710	800	100	100	215

(*) Female.

GP Condens is the new wall-mounted gas hot air generator for the direct, diffusion, condensing pre-mixed, designed specifically to attain a high performance. The heat exchanger, made entirely out of stainless steel, provide the best possible performances and make inspection easy for normal cleaning and maintenance operations.
On the inside there is a multi-function electronic board that handles the burner's ignition operations, the flame monitoring and the overall safety.
The new remote control panel allows you to display and set the main operating parameters of the machine, carry out the hourly programming and manage installations in cascade up to 10 generators.

- Range composed of 6 models with an output of 10 to 116 kW.
- Condensate drain kit as standard.
- Possibility of fastening to the wall or the roof (new).
- Possibility of managing up to 10 GP Condens in cascade.
- Indoor and outdoor temperature probe (available as accessories) for a more efficient ambient temperature measurement.
- Wide range of accessories for flue gases discharge and suction.
- Ideal for the heating of industrial, commercial, sports areas etc.

TECHNICAL DATA

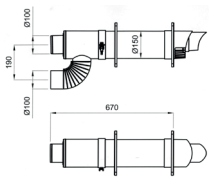
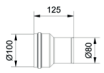
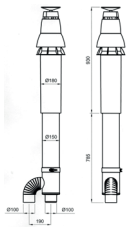
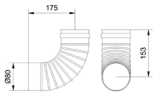
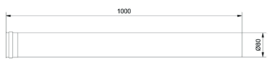
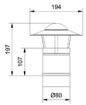
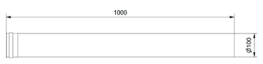
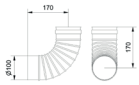
Description	Useful output kW		Furnace output kW		Air output m^3/h	Total efficiency (*) %		Notes	Code
	min	max	min	max	nominal	min	max		
GP CONDENS 30	10	28	9.4	29.1	3.200	106.5%	96.1%	(1)	**20139254**
GP CONDENS 40	14	37	13.3	38.5	4.400	105.1%	96.1%	(1)	**20139258**
GP CONDENS 50	19	48	18.4	49.8	5.500	103.2%	96.4%	(1)	**20139259**
GP CONDENS 60	21	57	20	59	6.500	105.1%	96.6%	(1)	**20139260**
GP CONDENS 90	35	89	33.3	90.8	10.000	105.2%	98.0%	(1)	**20139261**
GP CONDENS 120	43	115	40.6	116	13.000	106.0%	99.1%	(1)	**20139262**

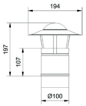
(*) With reference to Net Calorific Value (Hi) with recovery of the latent vaporisation heat.
(1) GP Condens is combined with the remote control panel code 20139270. For cascade operation one panel is sufficient for up to a maximum of 10 heater units in series.
The gas heaters are set up to operate with methane gas and can be converted to LPg with the relative kit supplied.
The accessories for the flue gas exhaust and the air intake are not included in the supply and need to be ordered separately choosing from those on page 517.

ACCESSORIES

Description	Destination	Code
ASSEMBLY ACCESSORIES		
GP Condens 30-40 shelf	GP Condens 30-40	**20032159**
GP Condens 50-120 shelf	GP Condens 50-120	**20139265**
Remote room sensor	GP Condens	**20032160**
Outdoor air temperature sensor	GP Condens	**20139267**
Remote control panel	GP Condens	**20139270**
Suspended GP Condens	GP Condens	**20139273**

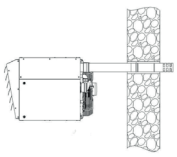
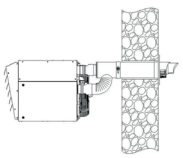
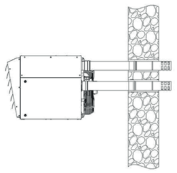
FLUE GAS EXHAUST/SUCTION LINE ACCESSORIES

Drawing	Description	Code
CONCENTRIC SYSTEM		
	100/100 concentric on wall	**20032161**
	Fitting Ø80/100	**20139281**
	100/100 concentric on roof	**20139288**
DOUBLE SYSTEM		
	Discharge/suction pipe Ø80 x 500 mm	**20139278**
	Terminal Ø80	**20139279**
	Terminal Ø100	**20139280**
	Bend Ø80	**20139283**
	Discharge/suction pipe Ø80 x 1000 mm	**20139285**
	Bend Ø80	**20139287**
	Roof terminal Ø80	**20139289**
	Discharge/suction pipe Ø100 x 1000 mm	**4155552**
	Discharge/suction pipe Ø100 x 500 mm	**4155554**
	Bend Ø100	**4155556**

Drawing	Description	Code
	Bend Ø100	**4155558**
	Roof terminal Ø100	**4155564**

INSTALLATION DIAGRAMS FLUE GAS EXHAUST/SUCTION

FRONT WALL PIPES

Description										
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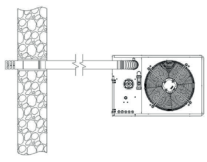
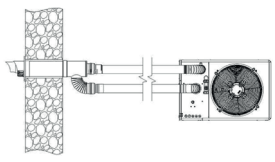
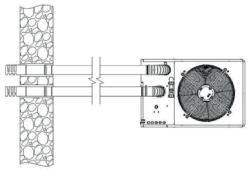
	Flue gas discharge				Flue gas exhaust/air suction concentric		Double flue gas exhaust/air suction			
GP CONDENS 30	●	●			●	●	●	●		
GP CONDENS 40	●	●			●	●	●	●		
GP CONDENS 50	●	●			●	●	●	●		
GP CONDENS 60	●	●			●	●	●	●		
GP CONDENS 90			●	●		●			●	●
GP CONDENS 120			●	●		●			●	●

FRONT WALL PIPES

Description																								
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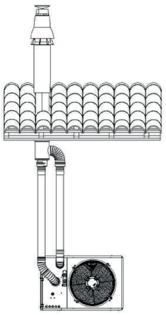
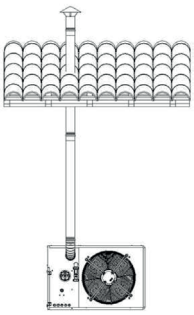
	Flue gas discharge								Flue gas exhaust/air suction concentric								Double flue gas exhaust/air suction							
GP CONDENS 30	●	●	●	●					●	●	●	●	●				●	●	●	●				
GP CONDENS 40	●	●	●	●					●	●	●	●	●				●	●	●	●				
GP CONDENS 50	●	●	●	●					●	●	●	●	●				●	●	●	●				
GP CONDENS 60	●	●	●	●					●	●	●	●	●				●	●	●	●				
GP CONDENS 90					●	●	●	●	●	●			●	●	●	●					●	●	●	●
GP CONDENS 120					●	●	●	●	●	●			●	●	●	●					●	●	●	●

PIPES ON ROOF

Description																			
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	Flue gas exhaust/air suction concentric											Flue gas discharge							
GP CONDENS 30	●	●	●	●	●	●						●	●	●	●				
GP CONDENS 40	●	●	●	●	●	●						●	●	●	●				
GP CONDENS 50	●	●	●	●	●	●						●	●	●	●				
GP CONDENS 60	●	●	●	●	●	●						●	●	●	●				
GP CONDENS 90							●	●	●	●	●					●	●	●	●
GP CONDENS 120							●	●	●	●	●					●	●	●	●

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 1917589**

Certificate Holder: **RIELLO S.p.A**
VIA INGEGNER PILADE RIELLO, 7
37045 Legnago (VR)
Italy

Scope:

Design, manufacture and service of: burners for residential heating and for commercial and industrial application; wall hung boilers and water heaters; units, floor-standing boilers and heating systems; solar collectors and solar boilers. Sales and assistance ofits own brand traded products for heating; products for conditioningand cooling, products for cogeneration and trigeneration; system accessories; spare parts and accessories; moduls, solar inverterand structures for photovoltaic systems.

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2019-12-11 until 2022-12-10.
Certified by other CB from 1992.12.11 to 2019.12.11

2020-01-14

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Am Grauen Stein · 51105 Köln

NOTE

NOTE

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May **2022** (rev. 1)

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