

NEW



## RESIDENCE

Condensing wall-mounted boilers

# RIELLO PRESENTS **RESIDENCE**

## THE NEW RANGE OF CONDENSING BOILERS



### NEW PRIMARY

Stainless steel coil-wound primary heat exchanger. Efficiency and reliability at the heart of Residence.



### DOMESTIC HOT WATER COMFORT FUNCTION

DHW pre-heating with Touch&Go function for activating it on demand directly from the drawing tap.



### HIGH EFFICIENCY

High efficiency of the primary heat exchanger, the modulating circulator pump and the continuous control of the combustion parameters guarantee extremely low consumptions even after several years of operation.



### ACTIVE COMBUSTION CONTROL

Advanced electronic combustion control that constantly monitors combustion so as to optimise consumption and emissions at all times.



### DIGITAL USER INTERFACE

Simple and user friendly backlit LCD. Easy setting thanks to the keys marked specifically with each user function.



### MODULATING CIRCULATOR PUMP

High efficiency circulator pump with output modulation and adjustable logic settable to various modes depending on the type of system.



### QUICK INSTALLATION

Quick and easy installation thanks to the compact dimensions, accessibility of the components and external electrical connections.



RESIDENCE is available in 4 power levels, in combined versions (KIS) and only heating (IS)

**RESIDENCE 20** - IS VERSION

**RESIDENCE 25** - KIS VERSION

**RESIDENCE 30** - KIS VERSION

**RESIDENCE 35** - KIS AND IS VERSIONS

#### **ONLY ONE NATURAL GAS - LPG VERSION**

The LPG-specific codes are no longer necessary since Residence is capable of adapting its operation automatically to the fuel type with quick setting from the display.

#### **FLEXIBLE INSTALLATION**

The characteristics of Residence and its compact dimensions make it the best solution both for indoor, including built-in (only 25 KIS model) and outdoor, in a partially protected area.

# RESIDENCE, STEEL HEART

## NEW PRIMARY HEAT EXCHANGER MADE OF STAINLESS STEEL

The new RESIDENCE heat exchanger is made of stainless steel, with a large section smooth pipe for guaranteeing the best efficiency and cleaning in time.

In addition to a high resistance to the corrosive action of acid condensate, INOX AISI 304 L stainless steel inhibits the internal formation of oxidation and other electrochemical phenomena typical of old system installation.

The one coil-wound geometry (serial hydraulic circuit) guarantees a constant output in all the sections of the heat exchanger and prevents intrinsically obstruction phenomena.

The front access facilitates the periodic operations of combustion chamber maintenance and cleaning.



# SELF-ADAPTING ELECTRONIC COMBUSTION CONTROL

## EMISSIONS ALWAYS UNDER CONTROL

The new Residence is equipped with **ACC combustion control intelligent system**, which ensures that the process takes place always in the best possible way in any condition, thanks to the modulating gas valve and the ionisation electrode. Thanks to the ACC, Residence is capable of adapting automatically to the fuel (natural gas or LPG) without the need of specific codes or additional conversion kits. Residence reacts also to the variation of fuel concentration and to the flue

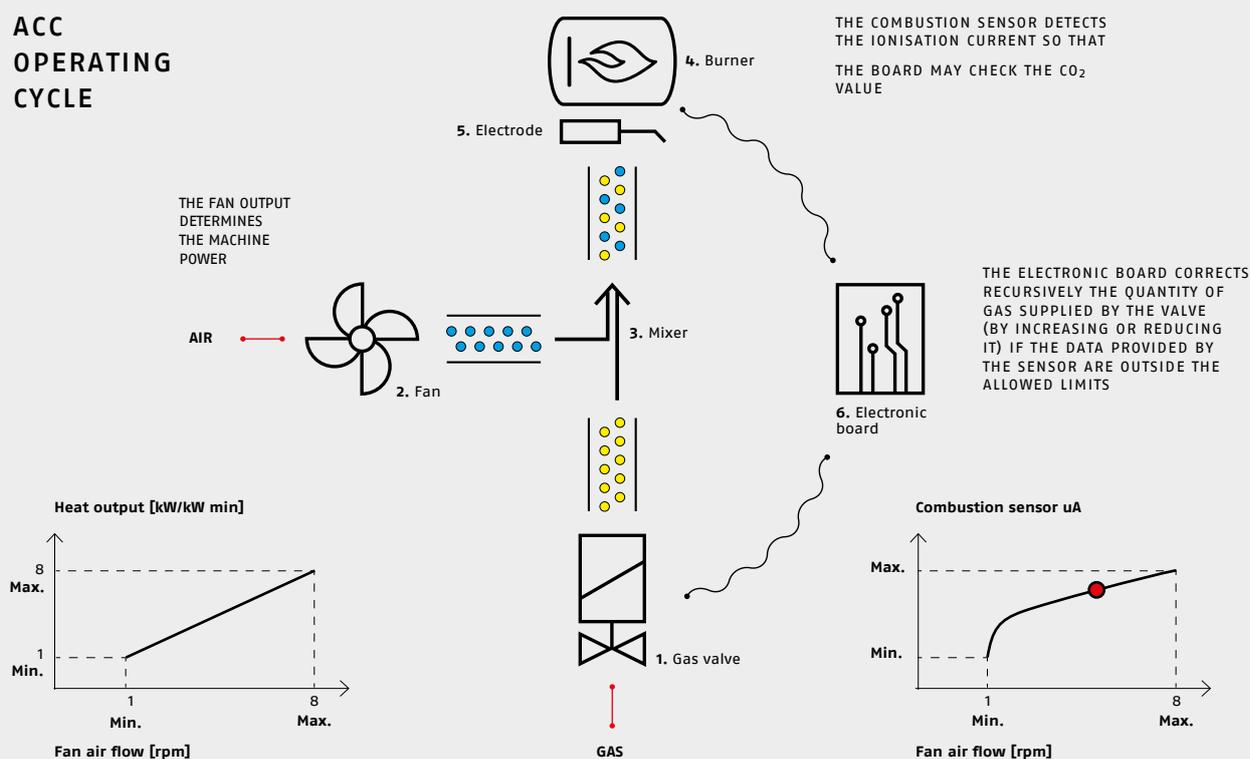


gas side load losses. The ACC system measures the excess air value and intervenes by modulating the mixture. In addition, the ACC system simplifies the installation. At start-up setting is not required and it is enough to select the type of fuel gas used by the boiler by means of the interface, if different from the default one (natural gas). Since the system maintains a constant value of  $\text{CO}_2$  produced, flue gas control at

start-up is no longer necessary for a correct product operation. Checking combustion means also guaranteeing constant emissions, always well below the limits prescribed by the norms. If the process takes place perfectly, also the gases produced shall have the best theoretical composition with respect to the other conditions.

**RESIDENCE,  
MAXIMUM TRANQUILLITY  
WHILE CARING FOR  
THE ENVIRONMENT**

## ACC OPERATING CYCLE





# NEW DIGITAL CONTROL



Domestic hot water temperature setting



Heating water temperature setting



Operating status  
OFF - SUMMER - WINTER

**RESET**

Unlock and alarm reset

**MENU**

Information and parameter menu



SIMPLE AND USER-FRIENDLY BACKLIT LCD  
DISPLAYING ALL THE MAIN OPERATING  
INFORMATION



EASY SETTING THANKS TO THE KEYS  
WITH SYMBOLS SPECIFIC FOR ALL  
USER FUNCTIONS



WEEKLY CLOCK PROGRAMMING FUNCTION  
INTEGRATED IN THE DISPLAY



## RICLOUD

L'ABBINATA VINCENTE!

**USER FRIENDLY**

**SIMPLE**

**INSTINCTIVE**

THE NEW **DIGITAL CONTROL**

BLENDS BEAUTIFULLY WITH THE  
AESTHETICS OF THE BOILER.

Setting the DHW and heating according to one's desires is instinctive, thanks to the keys with the symbols specific for each function.

Combining a RiCLOUD WiFi allows to control the boiler and the household comfort easily also from a smartphone or tablet.

# RiCLOUD

## THE INTELLIGENT REMOTE CONTROL

Ricloud is the easy and intelligent solution by Riello for managing room comfort: through the free RiCLOUD app, controlling the household heating or the new Residence boiler remotely, is easy and intuitive.



### SIMPLE



RiCLOUD is the easy and intelligent solution by Riello for your Comfort and Savings. Based on the latest technologies, you will be surprised by how simple RiCLOUD is to use and install. With the RiCLOUD App managing the household heating or checking the new RESIDENCE boiler has never been easier or user friendly.



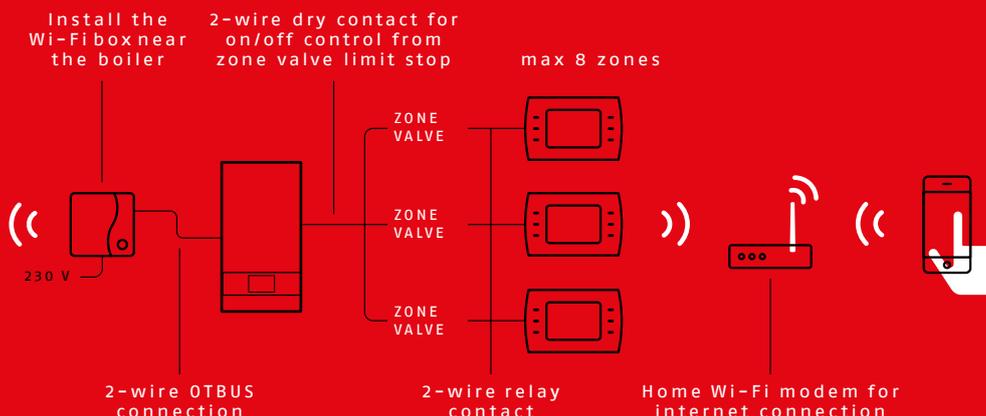
### EFFICIENT

When combined with RESIDENCE, with reading of the external temperature, RiCLOUD allows the system to reach the A+ energy efficiency class (Connection of at least 3 RiCLOUD according to the European Regulation 811/2013). Moreover the possibility of connecting up to 8 RiCLOUDs, each capable of controlling one room, allows to optimise the heating system consumption: RiCLOUD allows for a quick recovery of its investment.

### CONNECTED



Are you going to the mountains? Are you coming back from a business trip? Thanks to the RiCLOUD App on your Smartphone or Tablet, you may check or modify the programming mode of the heating system and the status of your new RESIDENCE boiler, wherever you are.



# MANY NEEDS, ONE SOLUTION

RESIDENCE IS ALWAYS  
THE IDEAL CHOICE

THANKS TO THE TECHNICAL AND SIZE-  
RELATED SOLUTIONS ADOPTED, IT  
MAY BE USED IN ANY INSTALLATION  
CONDITION



## INDOOR

Inside the household, thanks to  
its elegant look, which enables  
a pleasant integration in any  
environment.



## OUTDOOR

Outdoor in a partially protected  
area, thanks to the IPX5D protection  
level and the optional antifreeze  
resistance kit.

## BUILT-IN

Inside a built-in box thanks to its  
compact dimensions (only 25 KIS  
model).



# RESIDENCE SYSTEM SOLUTIONS

Wide range of accessories for managing many system solutions:



RICLOUD FOR THE REMOTE CONTROL OF HEATING AND BOILER



CONNECTION TO DHW BOILERS (ONLY IS MODELS)



MANAGEMENT OF 2 DIRECT OR MIXED HYDRAULIC CIRCUITS

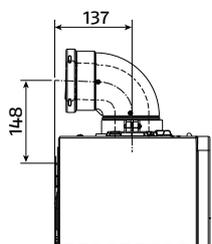
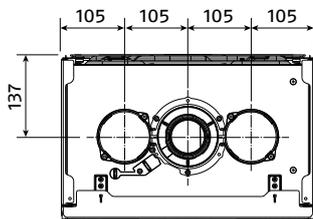
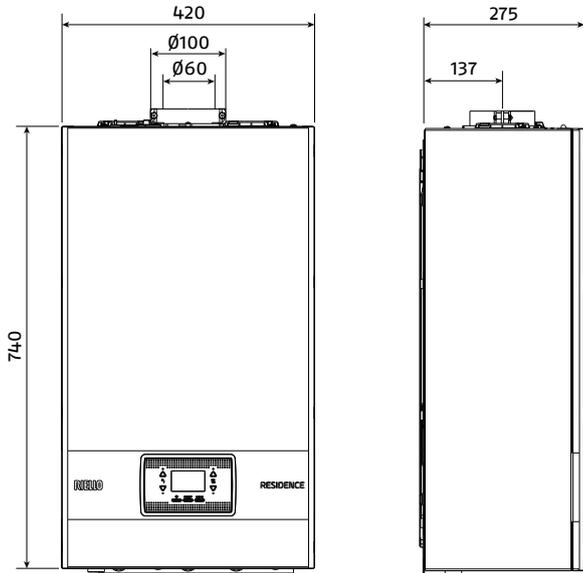


INSTANTANEOUS OR STORAGE INTEGRATION TO SOLAR HEAT SYSTEMS

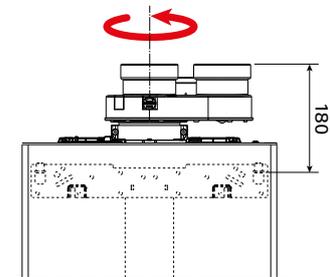
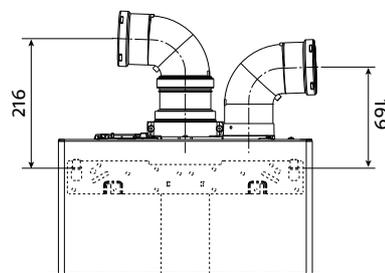
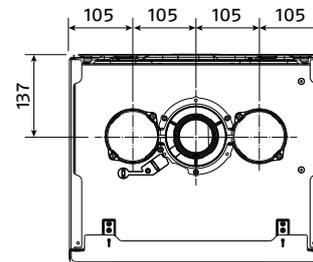
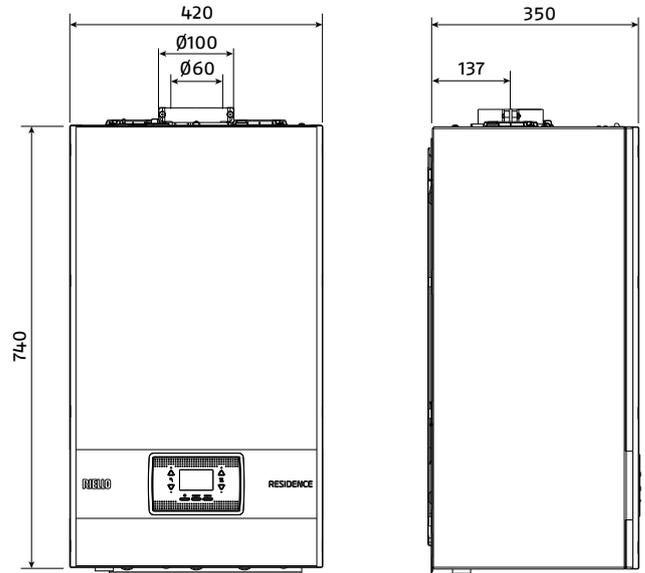


# TECHNICAL DRAWINGS

RESIDENCE 25 KIS e 20 IS



RESIDENCE 30-35 KIS e 35 IS



# TECHNICAL DATA

BOILER MODEL		20 IS	25 KIS	30 KIS	35 KIS - 35 IS
Heating energy class		A	A	A	A
DHW energy class		-	A	A	A
Load profile		-	XL	XL	XL
Nominal heat output	kW	20	20	25	30
Nominal thermal power (80°-60°)	kW	19.5	19.5	24.3	29.2
Nominal thermal power (50°/30°)	kW	21.2	21.2	26.5	32
Reduced heat output	kW	3.6	3.6	4.9	4.9
Reduced thermal power (80°-60°)	kW	3.5	3.5	4.8	4.8
Reduced thermal power (50°-30°)	kW	3.8	3.8	5.1	5.1
DHW					
Nominal heat output	kW	20	25	30	34.6
Nominal thermal power*	kW	20	26.3	31.5	36.3
Reduced heat output	kW	3.6	3.6	4.9	4.9
Reduced thermal power	kW	3.6	3.3	4.5	4.5
EFFICIENCY					
Useful efficiency (80°-60°) pn max. - pn min.	%	97.4 - 97.1	97.4 - 97.1	97.3 - 97.4	97.4 - 97.4
Combustion efficiency	%	97.8	97.8	97.6	97.7
Useful efficiency (50°-30°) pn max. - pn min.	%	106.2 - 105.8	106.2 - 105.8	106.0 - 104.7	106.9 - 104.7
Useful efficiency 30% pn max (30° return line)	%	108.4	108.4	108.1	108.2
ELECTRICAL DATA					
Total electrical power (pmax heating)	W	75	75	72	84
Total electrical power (pmax DHW)	W	-	85	83	99
Power supply voltage	V - Hz	230 - 50	230 - 50	230 - 50	230 - 50
Protection level	IP	X5D	X5D	X5D	X5D
HEATING					
Heating maximum pressure	bar	3	3	3	3
Maximum temperature	°C	90	90	90	90
Heating water temp. selection range		20/45 - 40/80	20/45 - 40/80	20/45 - 40/80	20/45 - 40/80
Expansion reservoir	l	9	9	9	9
DHW					
Maximum pressure	bar	-	8	8	8
DHW production with $\Delta t + 25$ °C	l/min	-	15.1	18.1	20.8
DHW production with $\Delta t + 30$ °C	l/min	-	12.5	15.1	17.4
DHW production with $\Delta t + 35$ °C	l/min	-	10.8	12.9	14.9
DHW temp. selection range (+/- 3 °C)	°C	-	37-60	37-60	37-60
DHW minimum output	l	-	2	2	2
Output regulator	l/min	-	10	12	14
DIMENSIONS AND WEIGHTS					
Dimensions (HxLxD)	mm	740x420x275	740x420x275	740x420x350	740x420x350
Boiler net weight	kg	34	35	37	37 - 36

\* Average value of various DHW operating conditions  
 Technical data referred to the operation with G20. DHW operation data referring to KIS model.



Combining the new Residence to one of the Relax warranty extension formulas, together with a maintenance and service plan from Riello Authorised Technical Service, means combining high quality with maximum tranquillity. With Relax you have great advantages, including labour and original spare parts supplied at no additional cost. Relax is an additional Conventional Warranty that does not hinder the consumer rights guaranteed by law and especially as regards the 2-year legal warranty to which the user is entitled and the 1-year warranty for those individuals with VAT number, according to articles 128 and fol. of the Italian consumer code.

ASK YOUR AUTHORISED TECHNICAL SERVICE AT FIRST START-UP.



RESIDENCE

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The company is constantly working to perfect its entire production range, so the design and size characteristics, technical data, equipment and accessories may vary.

**RIELLO**