



## THE NEW FAMILY

### **NEW PRIMARY**

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



### HIGH EFFICIENCY

Maximum comfort and minimum consumption in heating and DHW production. New optimised DHW condensing plate heat exchanger for the best performance in its class, in terms of efficiency, temperature stability and waiting time.



### USER FRIENDLY CONTROL

The colour graphical display is constantly communicating the boiler's running status. Browsing throughthe available functions and programs thanks to its icon/ text user-friendly interface has never been so easy.

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### ACTIVE COMBUSTION CONTROL

NELLE

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



### VERSATILE

Family takes you to the future. Thanks to the BUS communication protocol, it can interact with the hybrid control panel, in order to be integrated in a multienergy system and with the RiCLOUD intelligent remote control. Nox

### LOW EMISSIONS

In line with a path of continuous emission reduction, the new Family is certified Class 6\* for NOx, the highest in European standards. \*Note: Class 6 according to European Directive EN 15502)



### QUICK INSTALLATION

Time is precious. With Family installing the equipment and accessing the main components is simpler so as to reduce time and strain.



FAMILY IS AVAILABLE IN 2 POWER LEVELS, IN COMBINED VERSIONS (KIS) AND ONLY HEATING (IS)

### FAMILY 25 - KIS FAMILY 35 - KIS AND IS VERSIONS

The LPG-specific codes are no longer necessary since the new Family is capable of adapting its operation automatically to the type of fuel.

The characteristics of Family and its compact overall dimensions make it the ideal solution both for indoor, including in-wall (25 kW model), and outdoor installation, in a partially protected area.

# AT THE HEART OF FAMILY



### NEW PRIMARY HEAT EXCHANGER MADE OF STAINLESS STEEL

Riello designs its products with the utmost care and attention.

Continuous improvement has brought about today's evolution of the Family condensing range, starting from its primary element: the heat exchanger. The new Family heat exchanger is made of stainless steel, with a large section smooth pipe for guaranteeing the best efficiency and cleaning in time. Point of entry is at front for easier maintenance operations.



At drawing the hot water temperature does not undergo perceptible fluctuations. Whereas with a traditional boiler the variation is of approximately 3 degrees. When the output varies, the temperature oscillation is always 5 °C less, whereas a traditional boiler takes approx. 1 minute for reducing the variation to this value.

## E MISSIONS A L W A Y S U N D E R C O N T R O L

### SELF-ADAPTING ELECTRONIC COMBUSTION CONTROL

The new Family is equipped with an intelligent combustion control system ACC, 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, Family is capable of adapting automatically to the fuel (natural gas or LPG) without

the need of specific codes or additional conversion kits.

Family reacts also to the variation of fuel concentration and to the flue gas side load losses. The ACC system detects the ACC COMBUSTION

excess of air and intervenes by modulating the air/gas mixture so as to keep it always inside ideal parameters.

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 CO<sub>2</sub> 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.

### FAMILY,

MAXIMUM TRANQUILLITY WHILE **CARING FOR** THE ENVIRONMENT





## CONTROL PANEL AND FUNCTIONS

### WITH FAMILY ALSO THE CONTROL PANEL IS RENEWED

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INTELLIGENT SYSTEM LOADING The panel allows autonomous system loading, if the pressure descends below the minimum reference value.



### INFO DISPLAYING

In addition to date and time the display shows the fundamental information regarding the boiler's operation: the water delivery temperature and the system's pressure. An icon on the boiler display informs of the need of performing the scheduled maintenance.

### Ever more clear, user friendly

and easy to use, it blends elegantly with the aesthetics of the machine. The broad backlit display, the embossed keys and the interface with informative texts/icons aid the user and the installer when browsing. The panel displays the operating status, enables programming and grants access to the boiler and system's setup.



#### PROGRAMMING

Programming the boiler's operation according to your needs is easy and user friendly. From the panel it is possible to perform time and daily programming for each area of the system.

The Family display is equipped with the new "Color Bar", which informs the user at a glance about the boiler's operating status. In the event of malfunctioning, it is possible to understand if a failure is critical and requires technical servicing.

The top section of the panel may alternate 4 colours, depending on the status:

### GREEN

Normal operation. The system is satisfying DHW/ heating requests or performing other automatic operations. Scrolling text at the bottom describes the function active at that moment.

### - YELLOW

Presence of anomalies potentially solvable by the user that enable product operation, even partial. An error triangle on the display enables to access the failure description.

### 🛑 RED

Presence of stopping anomalies that require Technical Servicing. An error triangle on the display enables to access the failure description.



The system is ready to satisfy any request. No operation in progress and failure detected.







## **RICLOUD**

### The intelligent remote control

RiCLOUD allows to control the comfort of your household in a simple and intuitive manner, also when you are far from home.

The special app allows to check the heating system status and program start-up, shut down, temperature and operating time of the boiler directly from your smartphone or tablet. It is possible to handle up to 8 different zones, each one controlled by its own RiCLOUD. RiCLOUD may be installed also in total wireless mode by means of a radio-frequency receiver available as an accessory, thus avoiding any electrical and construction work.

### THE FAMILY GROWS WITH RICLOUD

## TAKES YOU TO THE FUTURE

In addition to the stand-alone use, the new Family condensing boiler is ready for installation as a part of a multi-energy system. Thanks to the standard equipment of the Mod-BUS communication protocol, Family is capable of interacting with the system's intelligence in order to operate synergically with all the components.

The hybrid systemsenable to reduce heatThangeneration costs and environmentally harmfulpossiemissions thanks to the integration of renewablealso l

### NO NEED TO RUSH YOUR DECISION!

Thanks to the configuration of Family, it is possible to decide to change to the hybrid version also later on, expanding the system with heat pumps, solar panels and boilers/tanks.

THE HYBRID SYSTEM'S INTELLIGENCE IS ENCLOSED WITHIN THE REC HYBRID, AVAILABLE AS AN OPTIONAL FITTING, WHICH MAY REPLACE THE STANDARD BOILER CONTROL.

WHILE IDENTICAL AESTHETICALLY SPEAKING, THE REC HYBRID IS CAPABLE OF MANAGING THE HEAT SOURCES AVAILABLE IN AN INTEGRATED MANNER, ALWAYS PRIORITISING THE MOST ENERGY EFFICIENT ONE.

> SINGLE SYSTEM FOR HEATING AND SUMMER COOLING

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### INCREASE OF ENERGY EFFICIENCY OF THE SYSTEM

energies.

COST REDUCTION FOR HEATING AND LOWER HARMFUL EMISSIONS IN THE ATMOSPHERE







THE NEW FAMILY ALSO **HELPS THE PROFESSIONAL** WITH SOLUTIONS THAT REDUCE THE TIME NECESSARY FOR INSTALLATION AND MAINTENANCE

OPTIMISING THESE OPERATIONS MEANS NOT ONLY SIMPLIFYING THE JOB OF THE INSTALLER, BUT ALSO MINIMISING THE USER'S DISCOMFORT



## **TECHNICAL DRAWINGS**



























### **TECHNICAL DATA**

BOILER MODEL	UM	25 KIS	35 KIS - 35 IS
Heating energy class		A	A
DHW energy class		Α	Α
Load profile		XL	XXL
Nominal heat output	kW	20.0	30.0
Nominal thermal power (80°-60°)	kW	19.5	29.2
Nominal thermal power (50°-30°)	kW	21.2	32
Reduced heat output	kW	3.6	4.9
Reduced thermal power (80°–60°)	kW	3.5	4.8
Reduced thermal power (50°–30°)	kW	3.8	5.1
Domestic water			
	kW	25	34.6
Nominal thermal power**	kW	26.3	36.3
Reduced heat output	kW	3.6	4.9
Reduced thermal power	kW	3.3	4.5
Efficiency			
Useful efficiency (80°-60°) Pn max. – Pn min.	%	97.4 - 97.1	97.4 - 97.4
Combustion efficiency	%	97.8	97.7
Useful efficiency (50°-30°) Pn max. – Pn min.	%	106.2 - 105.8	106.9 - 104.7
Useful efficiency 30% Pn max (30° return line)	%	108.4	108.2
Electrical data			
Total electrical power (Pmax heating)	W	84	84
Total electrical power (Pmax dhw)	W	95	95
Power supply voltage	V - Hz	230 - 50	230 - 50
Protection level	IP	X5D	X5D
Heating			
Heating maximum pressure	bar	3	3
Maximum temperature	۰۲	90	90
Temp. selection range heating water		20/45 - 40/80	20/45 - 40/80
Expansion reservoir		10	10
Domestic hot water			
Maximum pressure	bar	8	8
DHW production with Δt+25 °C	l/min	15.1	20.8
DHW production with At+30 °C	l/min	12.5	17.4
DHW production with At+35 °C	l/min	10.8	14.9
Temp. selection range domestic hot water (+/- 3 °C)	°C	37-60	37-60
DHW minimum output	1	2	2
Output regulator	l/min	10	14
Dimensions and weights			
Boiler dimensions (H***xWxD)	mm	740x470x275	740x470x350
Boiler net weight	kg	35	39

Preliminary technical data
Average value of various DHW operating conditions
Total value of SRD device Technical data referred to the operation with G20. DHW operation data referring to KIS model.

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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.