



BE INNOVATIVE ● ○ ●

ANTEA NEXT

Your **NEXT GENERATION** boiler

Available in the KC, KR, and KRB versions



FONDITAL.COM

**WORKING CERTIFICATION
WITH HYDROGEN MIXTURES UP TO 20%**

CERAMIXSTEEL®

THE PERFECT COMBINATION

The Antea Next's combustion unit has been revamped with the introduction of an extraordinary combination:



AN EXTRA DURABLE HEAT EXCHANGER:



- Made from **stainless steel**.
- A **single spiral** with no added manifolds to prevent air bubbles from forming, which could limit the uniform and functional circulation of the water.
- A **new design** with a larger water passage area, which is less prone to fouling and sediment build-up, and ensures high performance and improved efficiency, even when partially obstructed, thus making it ideal for existing systems in which sediment is more likely to be generated.

A CERAMIC QUALITY BURNER:



- Made from **ceramic fibre**, which offers exceptional performance for combustion systems.
- **Greater flame stability** to allow for a wide range of modulation.
- **Long lasting**, with almost no risk of corrosion.
- **Silent**, thanks to its fibre structure and porosity, which make it ideal for attenuating high and low frequency noises.

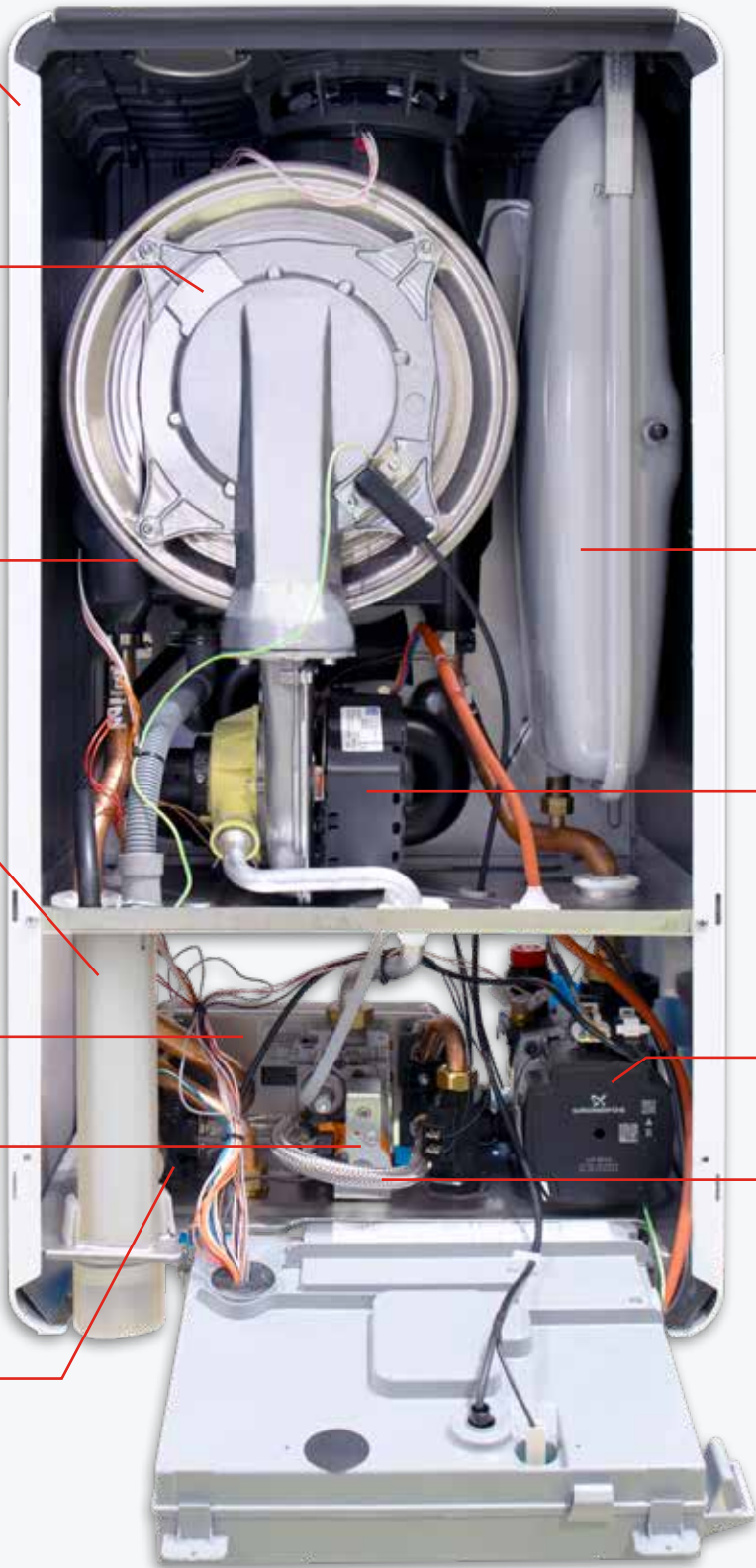


The CeramiXSteel combustion unit is completed with a new **air-gas unit** with 1:9 modulation, offering a perfect combination that promotes savings, comfort, and a significant reduction in pollutant emissions.

Easychange - no nozzle, easier and faster gas change.



TOTAL SILENCE



CUT-RESISTANT SHEET METAL

CERAMIC QUALITY BURNER

HIGH DURABILITY EXCHANGER

INSPECTABLE SIPHON

EASY ACCESS/ EXTRACTION PLATE HEAT EXCHANGER

PNEUMATIC GAS VALVE

NEW 3-WAY VALVE WITH ANTI-LEAKAGE SYSTEM

9-LT- EXPANSION VESSEL

MODULATING FAN

HIGH EFFICIENCY CIRCULATION PUMP

FLEXIBLE BYPASS

HYDROGEN: THE ECOLOGICAL CHOICE FOR YOUR HEATING INSTALLATION



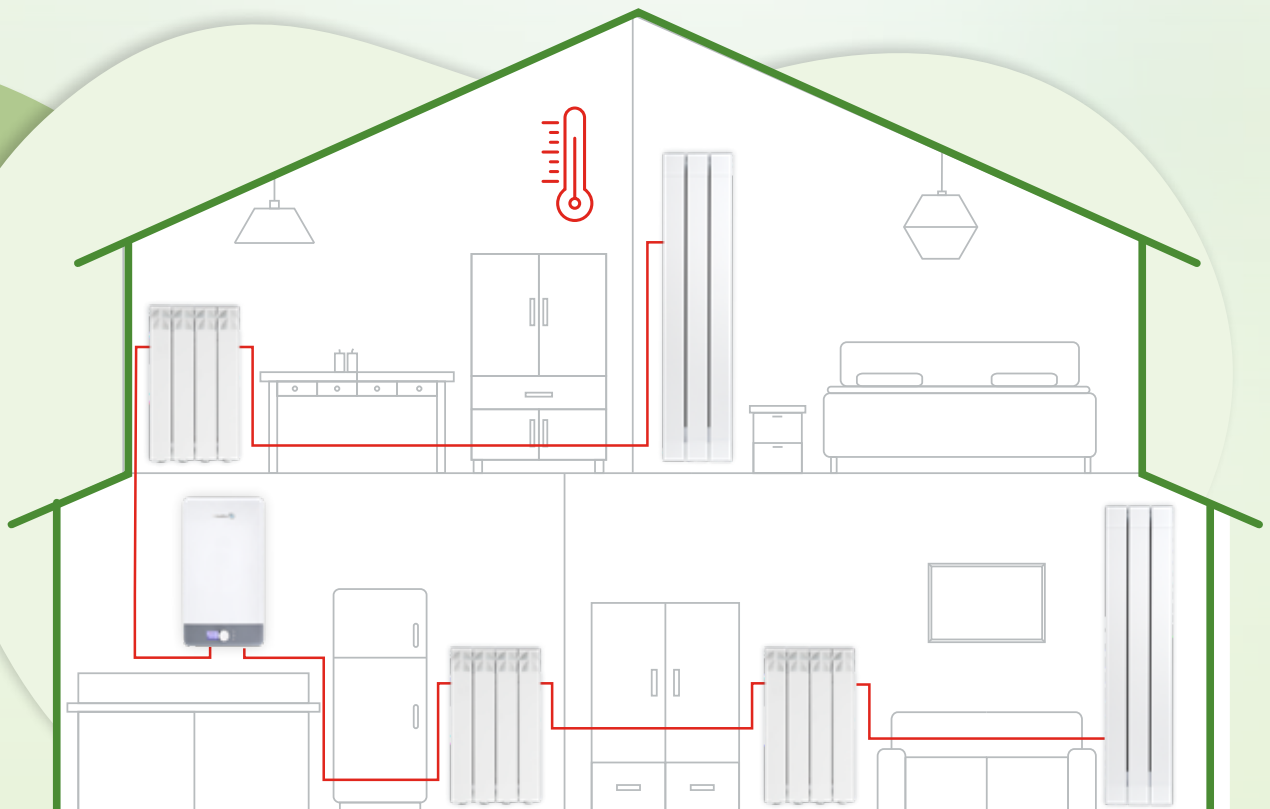
H₂ READY 20%

Environmental needs are pushing countries to adopt new regulations for heating installations, with an increasing focusing on new energy carriers, like **hydrogen**.

In fact, hydrogen is recognised as a green fuel with zero CO₂ emissions. It is therefore unanimously hailed as an ideal decarbonisation solution.

The Antea Next is the first Fondital boiler type-approved to operate with methane-hydrogen mixtures of up to 20%. It also offers several other advantages that help reduce its environmental impact:

- **Easy Tech function:** A special parameter allows the burner's activation to be delayed if the hot water tap is opened by mistake or for a very short time, thus extending the life of the boiler and saving on gas consumption.
- **Consumption is monitored** via the user menu, for daily energy consumption reports.
- **Low-voltage** gas and three-way valves for reduced energy consumption.



For an **entirely eco-friendly system**, it is recommended to install the boiler in combination with Fondital aluminium radiators.

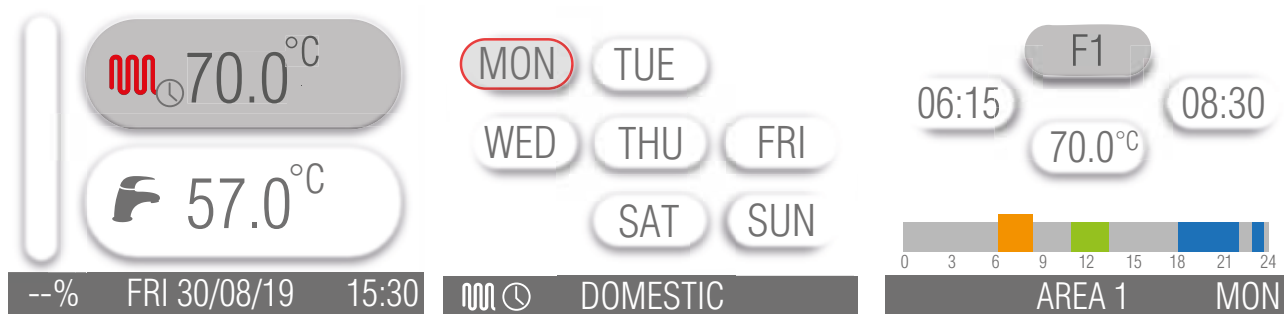
Aluminium is an extremely eco-sustainable and virtuous metal that can be fully recycled an infinite number of times while maintaining its original properties.



ADVANCED ELECTRONICS

The boiler's interface has been entirely redesigned:

- Large, functional, and intuitive multi-page 2.8" colour TFT graphic **display**.
- Combined comfort: thanks to the use of a **room sensor**, the unit's operation is adapted to the room's temperature, with no need for an additional thermostat or chrono thermostat.
- New thermoregulation with an **external probe** to modulate operation based on the outside temperature.
- **Combined** use of an external probe and a room sensor for optimal comfort and increased overall heating system efficiency
- **Customisable weekly settings** able to be adapted to the household needs



Hourly heating programming

- **Phase-to-phase power supply**. Constant flame detection with advanced electronics in any type of installation.
- Compatible with the **SPOT** smart remote control.

SPOT
smart thermostat

Spot, the smart thermostat, allows you to set and monitor your boiler and heating system from wherever you are through a wi-fi connection.



 **fondital**

INSTALLATION AND MAINTENANCE MADE EASY



Zero time wasted during both installation and routine maintenance:

- **High-resistance external plate** in galvanized and painted steel with anti-cut edge
- Simplified QuickLoc **mounting**
- Excellent accessibility for **heat exchanger cleaning** and igniter spark plug connection
- Easy **electrical connections** with removable terminals
- **Venting cycle** that can be started during installation to allow air to be easily removed from the system
- **Concealed connections** for improved safety and aesthetics
- New **easily accessible and inspectable siphon**
- **Aspiration water** collection integrated into the top of the boiler for greater protection against infiltration (see top image)
- New front panel with improved **sound insulation**.



CONCEALED CONNECTIONS



NEW SIPHON



ASPIRATION WATER COLLECTION

MULTI-CONNECTIVITY

SMART CONNECTION

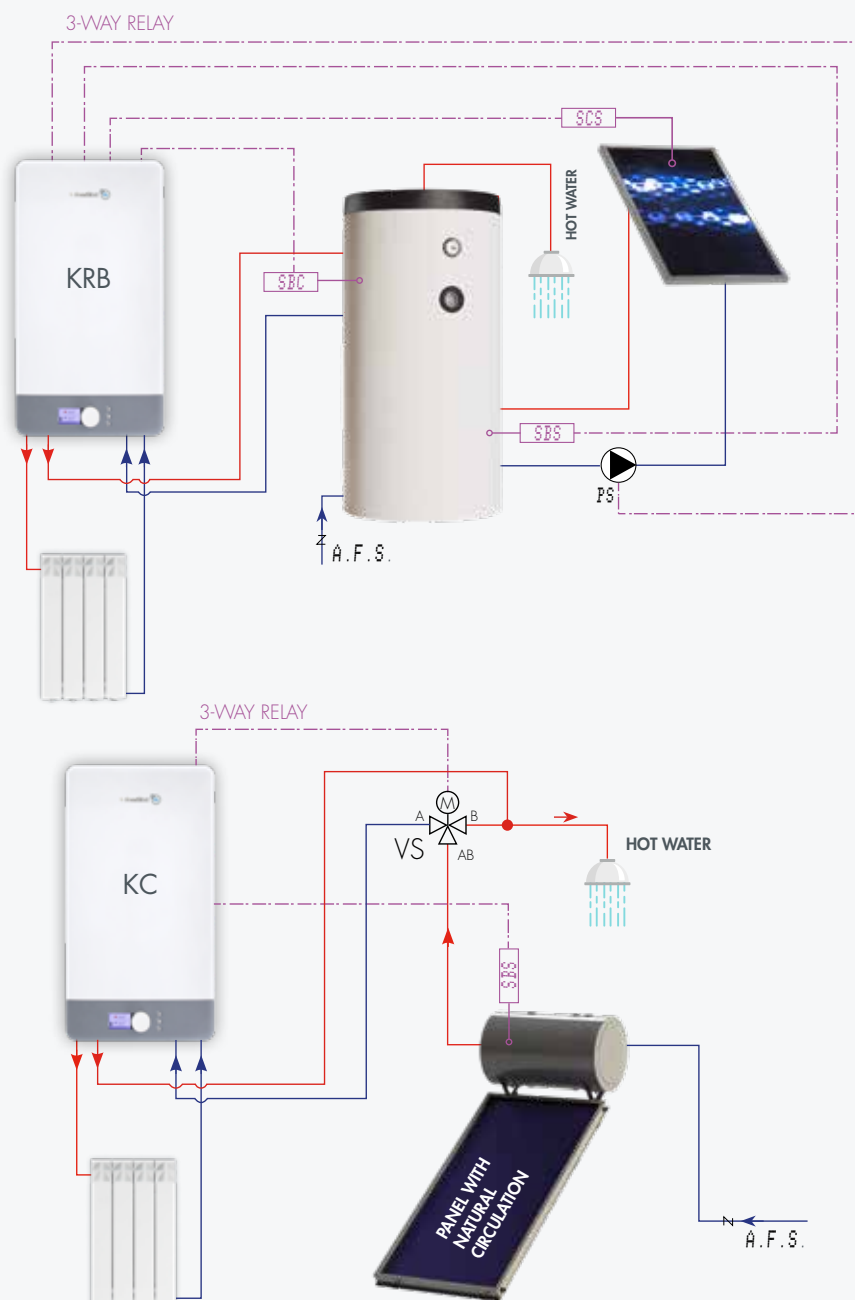


The Antea Next can be connected with multiple systems, acting as a single control unit:

- Pre-setting for **alternate sources**: thanks to an intelligent algorithm, it acts as a control unit for alternate sources
- Connection with **BMS and IOT building automation systems** via Modbus port for integration with other devices
- Extreme versatility with the board featuring two standard multifunction relays for customising the system:

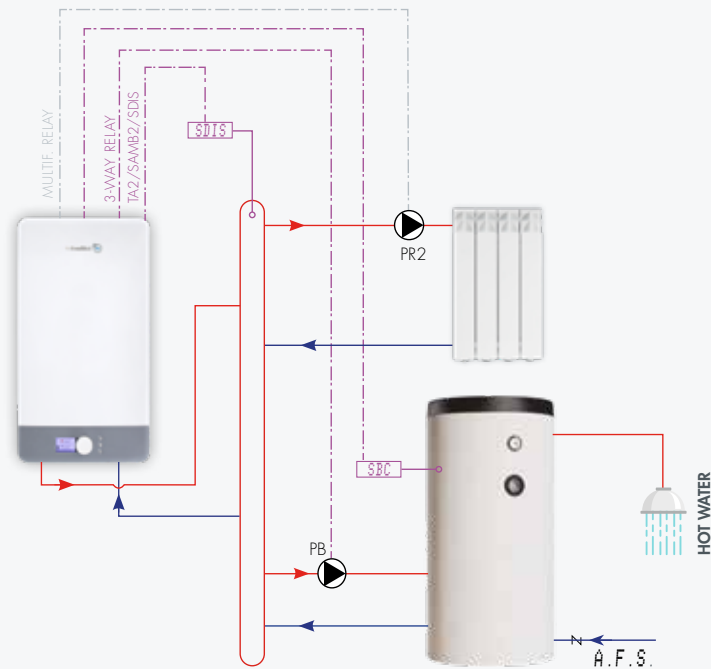


Solar for controlling the solar plant without an external controller

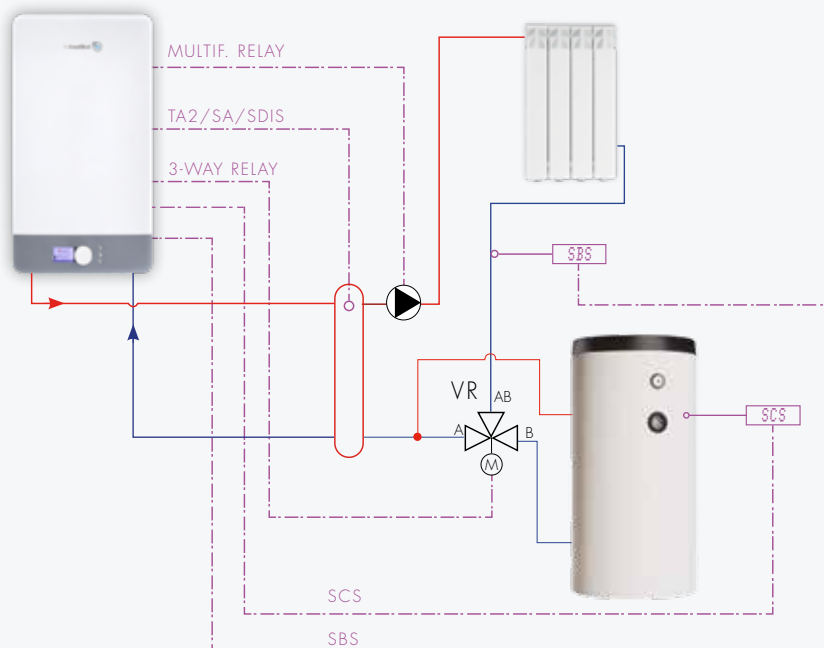




Booster pump for the management of a secondary circulator, or **DHW recirculation pump**



Multi-energy management via a three-way valve for managing the water's return flow, which can be conveyed to a water heater or directly to the boiler



Alarm output for home automation connections, in order to signal any blockages of the boiler itself

GENERAL CHARACTERISTICS

DESCRIPTION	um	KC 26	KC 30	KC 35
CH nominal heat input	kW	23,7	26,7	30,4
Minimum heat input	kW	3,0	3,3	4,2
CH nominal heat input with mixture 20%H2NG $(Q_{n(20\%H2)})$	kW	22,4	25,3	28,8
CH minimum heat input with mixture 20%H2NG	kW	2,8	3,1	4,0
Maximum heat output (80-60°C) - CH	kW	23,1	26,0	29,6
Minimum heat output (80-60°C) - CH	kW	2,8	3,1	3,8
Maximum heat output (50-30°C) - CH	kW	25,0	28,1	32,2
Minimum heat output (50-30°C) - CH	kW	3,3	3,4	4,4
Minimum CH system pressure	bar	0,5	0,5	0,5
Maximum CH system pressure	bar	3,0	3,0	3,0
DHW maximum heat input	kW	27,3	30,4	34,5
DHW minimum heat input	kW	3,0	3,3	4,2
DHW nominal heat input with mixture 20%H2NG $(Q_{nw(20\%H2)})$	kW	25,9	28,8	32,7
DHW nominal heat input with mixture 20%H2NG	kW	2,8	3,1	4,0
DHW circuit min. pressure	bar	0,5	0,5	0,5
DHW circuit max. pressure	bar	6,0	6,0	6,0
DHW specific flow rate ($\Delta t=30K$)	l/min	13,4	15,0	17,3
Electric power supply – voltage / frequency	V - Hz	230 -50	230 -50	230 -50
Power mains supply fuse	A	3,15	3,15	3,15
Maximum power consumption	W	106	111	122
Pump absorption	W	46	46	54
Electric protection rating	IP	X5D	X5D	X5D
Net weight	kg	29,0	31,0	31,5
Natural gas consumption at maximum CH output (Value referred to 15 °C - 1013 mbar)	cu. m/h	2,51	2,82	3,22
Propane gas consumption at maximum CH output	kg/h	1,84	2,07	2,36
Maximum CH working temperature	°C	83	83	83
Maximum DHW working temperature	°C	62	62	62
Total capacity of expansion vessel	l	9	9	9
Maximum recommended system capacity (Maximum water temperature 83°C, expansion vessel pressure 1 bar)	l	200	200	200

DESCRIPTION	um	KR 12 KRB 12	KR 24 KRB 24	KR 28 KRB 28	KR 32 KRB 32
CH nominal heat input	kW	12,0	23,7	26,7	30,4
Minimum heat input	kW	2,0	3,0	3,3	4,2
CH nominal heat input with mixture 20%H2NG $(Q_{n(20\%H2)})$	kW	11,4	22,4	25,3	28,8
CH minimum heat input with mixture 20%H2NG	kW	1,9	2,8	3,1	4,0
Maximum heat output (80-60°C) - CH	kW	11,8	23,1	26,0	29,6
Minimum heat output (80-60°C) - CH	kW	1,8	2,8	3,1	3,8
Maximum heat output (50-30°C) - CH	kW	12,9	25,0	28,1	32,2
Minimum heat output (50-30°C) - CH	kW	2,1	3,3	3,4	4,4
Minimum CH system pressure	bar	0,5	0,5	0,5	0,5
Maximum CH system pressure	bar	3,0	3,0	3,0	3,0
DHW maximum heat input (*)	kW	18,0	27,3	30,4	34,5
DHW minimum heat input (*)	kW	2,0	3,0	3,3	4,2
DHW nominal heat input with mixture 20%H2NG $(Q_{nw(20\%H2)})$ (*)	kW	17,0	25,9	28,8	32,7
DHW nominal heat input with mixture 20%H2NG (*)	kW	1,9	2,8	3,1	4,0
Electric power supply – voltage / frequency	V - Hz	230 -50	230 -50	230 -50	230 -50
Power mains supply fuse	A	3,15	3,15	3,15	3,15
Maximum power consumption	W	96	106	111	122
Pump absorption	W	46	46	46	54
Electric protection rating	IP	X5D	X5D	X5D	X5D
Net weight	kg	28,0	28,0	30,0	30,5
Natural gas consumption at maximum CH output (Value referred to 15 °C - 1013 mbar)	cu. m/h	1,27	2,51	2,82	3,22
Propane gas consumption at maximum CH output	kg/h	0,93	1,84	2,07	2,36
Maximum CH working temperature	°C	83	83	83	83
Maximum DHW working temperature (**)	°C	65	65	65	65
Total capacity of expansion vessel	l	9	9	9	9
Maximum recommended system capacity (Maximum water temperature 83°C, expansion vessel pressure 1 bar)	l	200	200	200	200

(*) KR/KRB models with optional external water heater.

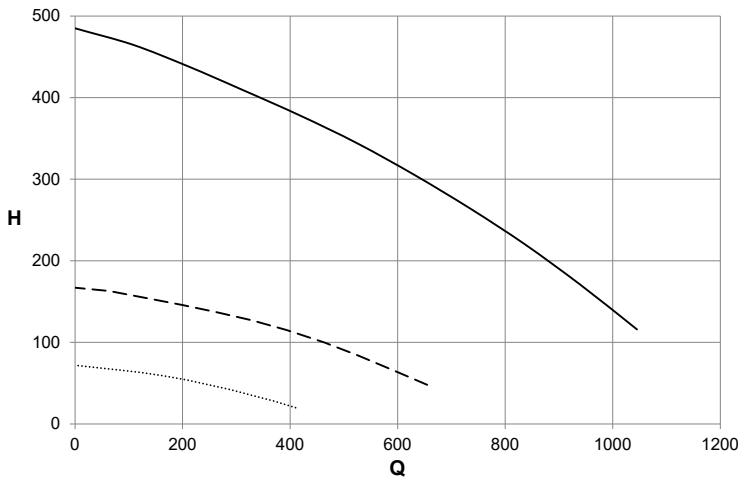
(**) KR/KRB models with water heater probe, optional.

AVAILABLE HEAD



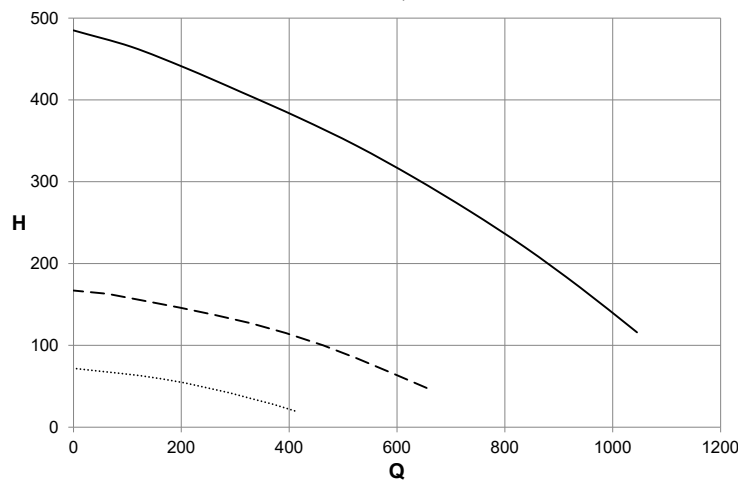
AVAILABLE HEAD KR/KRB 12

Q Flow rate (l/h)
H Available head (mbar)
 (*) Minimum curve that can be used in systems without hydraulic separator
 (**) Minimum curve that can be used in systems with hydraulic separator



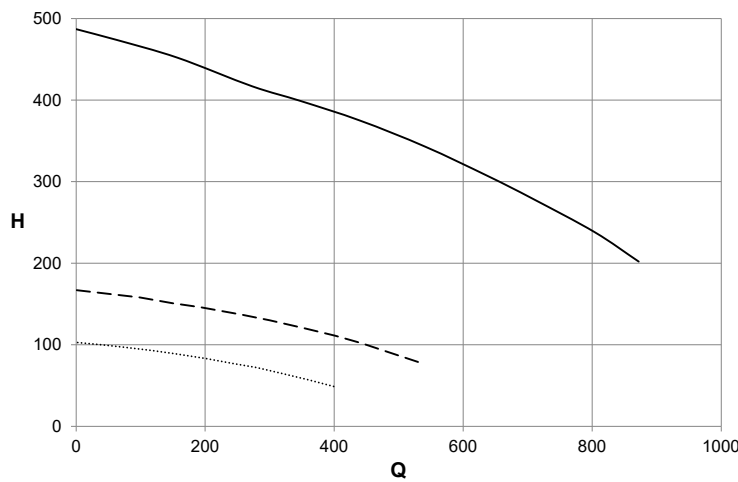
AVAILABLE HEAD KC 26 - KR/KRB 24

Q Flow rate (l/h)
H Available head (mbar)
 (*) Minimum curve that can be used in systems without hydraulic separator
 (**) Minimum curve that can be used in systems with hydraulic separator



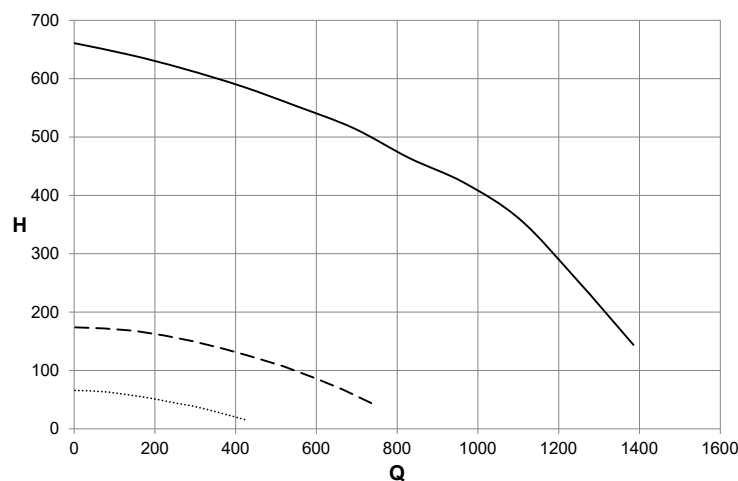
AVAILABLE HEAD KC 30 - KR/KRB 28

Q Flow rate (l/h)
H Available head (mbar)
 (*) Minimum curve that can be used in systems without hydraulic separator
 (**) Minimum curve that can be used in systems with hydraulic separator



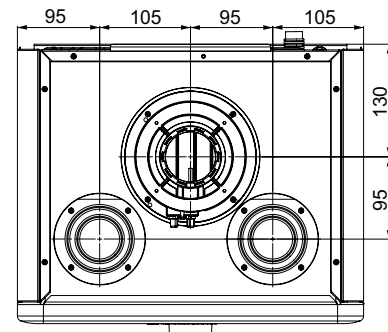
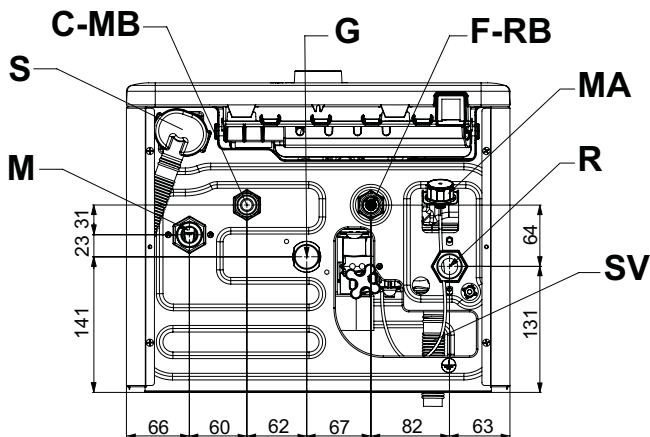
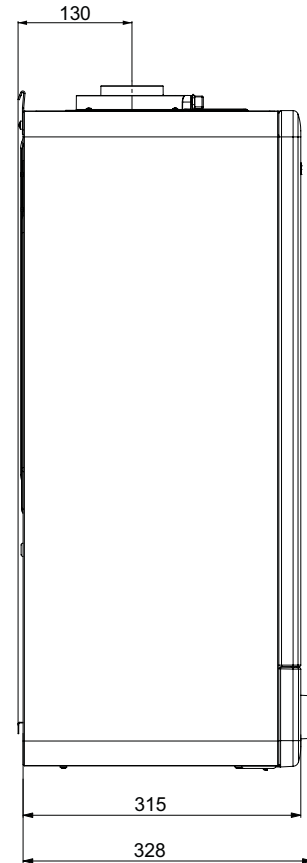
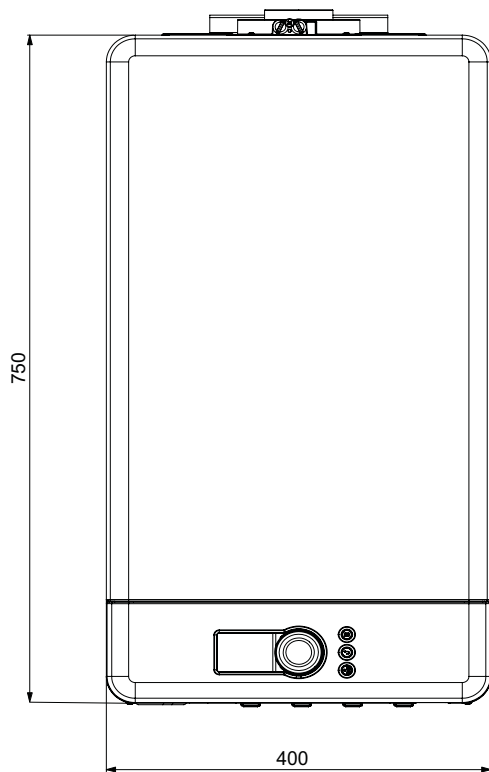
AVAILABLE HEAD KC 35 - KR/KRB 32

Q Flow rate (l/h)
H Available head (mbar)
 (*) Minimum curve that can be used in systems without hydraulic separator
 (**) Minimum curve that can be used in systems with hydraulic separator



DIMENSIONS (MM)

Model KC - KR- KRB



- S** Siphon
- M** CH system flow (3/4")
- C** DHW outlet (1/2") [KC]
- MB** Water heater secondary flow (1/2") [KRB]
- SV** 3-bar safety valve discharge outlet
- G** Gas inlet (3/4")
- F** Cold water inlet (1/2") [KC - KR]
- RB** Water heater secondary return (1/2") [KRB]
- R** CH system return (3/4")
- MA** Analog manometer

Type of installation	Intake pipe diameter [mm]	Vent pipe diameter [mm]
B23/B23P	-	Ø 80
	-	Ø 80 + Ø 60
	-	Ø 80 + Ø 50
C43/C43X	Ø 80	Ø 80
C53/C53X	Ø 80	Ø 80 + Ø 60
C83/C83X	Ø 80	Ø 80 + Ø 50
C13/C13X (*)	Ø 60/100	
C33/C33X	Ø 80/125	

Il produttore si riserva di apportare le modifiche che riterrà opportune senza obbligo di preavviso.

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