



 **Beretta**



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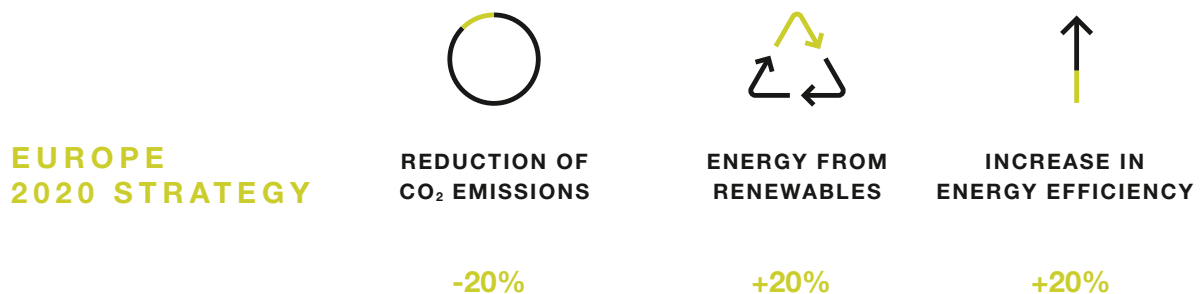
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EXCLUSIVE, THE START OF A NEW STORY

EXCLUSIVE represents a milestone in the development of Beretta's wall-hung solutions. The new condensing boiler, fully designed and developed at the Research & Development laboratories of the historic headquarters in Lecco, Italy, features characteristics and advantages that make it stand out in the reference landscape.

In particular, the innovative Active Combustion Control ACC and the openness towards the management of multi-energy systems, with HYBRID READY integration, make it the up-to-date and successful choice for those who never settle for anything less and want to look beyond. Energy saving and emission

reduction, without compromise to the maximum comfort, complete the green profile of EXCLUSIVE, which represents the highest Beretta contribution in terms of respect for the environment, in view of the objectives set for the EU countries within 2020 (Europe 2020 Strategy).





INNOVATIVE PROJECT DESIGN

EXCLUSIVE MARKS A CHANGE IN BERETTA'S WALL-HUNG OFFER EVOLUTION. COMBUSTION AND ELECTRONICS, THAT ARE THE HEART AND THE BRAIN OF THE BOILER, HAVE BEEN FULLY DESIGNED BY BERETTA'S RESEARCH & DEVELOPMENT DEPARTMENT AND INTEGRATED WITHIN A NEW PROJECT DESIGN, WHICH FEATURES A LINEAR AND COMPACT APPEARANCE, THAT CAN BE INTEGRATED IN ANY DOMESTIC ENVIRONMENT.

EXCLUSIVELY VERSATILE

Thanks to ACC COMBUSTION, allowing the boiler to **self-adapt to several types of gas**, components such as gas transformation kits are not required. With **5 models** (3 of which are combi and 2 heating-only), from 25 to 35 kW of power, EXCLUSIVE more than satisfies a number of installation needs: from **new buildings to renovation**, from **single installation to hybrid application** in multi-energy system.

EXCLUSIVELY BERETTA

With EXCLUSIVE, project innovation blends with **the best Beretta's tradition**, both in terms of **know-how**, gained in more than forty years of experience in the domestic heating industry, and in terms of **continuity in style**. Such continuity is expressed in the **product appearance**, which modernises some lines of the first boiler models, and **EXCLUSIVE name**, which has always characterised Beretta's top products, with exclusive features and benefits.

EXCLUSIVELY CONVENIENT

Thanks to the new design, ACC COMBUSTION and advanced electronics, user and installer can benefit from many pluses. In particular, the boiler stands out for its **compact size**, that makes it easy to be integrated even in tight spaces, its considerable **installation time reduction** and its **easy maintenance and service**, arising from front accessibility to most components.

USER BENEFITS



TEXT-DRIVEN DISPLAY

User interface for direct communication with texts and icons



CO MONITOR

Level of boiler CO continuously monitored and calibrated for the maximum safety



SMALL SIZE

Thanks to its compact size, EXCLUSIVE can be easily installed even in a wall unit



HYBRID READY

Integration via BUS in multi-energy system that makes the boiler operation more effective with respect to the other energy sources

INSTALLER BENEFITS



SPEEDY INSTALLATION

Casing removal NO longer required for electrical wiring and calibrations



SELF-CALIBRATING

The boiler automatically adapts to several types of gas and installation (ZERO calibrations)



FRONT ACCESS TO COMPONENTS

The new project design makes maintenance and service operations very easy and fast



UNIVERSAL INSTALLATION

Indoor, outdoor and built-in installation

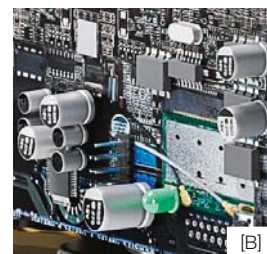
ACTIVE COMBUSTION CONTROL



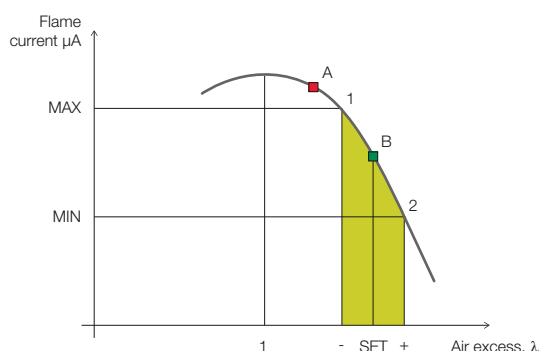
The ACC system, designed and developed by Beretta, allows to offer best-in-class functionality, efficiency and low emissions in all circumstances.

Using a flame ionisation current detection sensor, that allows the electronics to continuously modulate the quantity of injected fuel, the system keeps the air/gas mix constant at the optimal values in the whole power output modulation field (constant CO_2 value).

Thanks to the sophisticated ACC system, combustion self-adjusts, thus eliminating the need of any calibration and allowing the boiler to operate with several gas compositions. Special attention is paid to CO emissions, through a self-diagnosis that operates on the burner before the threshold of emission permitted by the regulations is exceeded.



[C] TRADITIONAL GAS VALVE
WITH MODULATOR
[D] MODULATING FAN
WITH HALL EFFECT



Combustion control is designed to keep combustion values within the air excess optimal value required by combustion in the whole boiler modulation range (operating point B). The optimum operation limit is defined within the tract delimited by points 1 and 2.

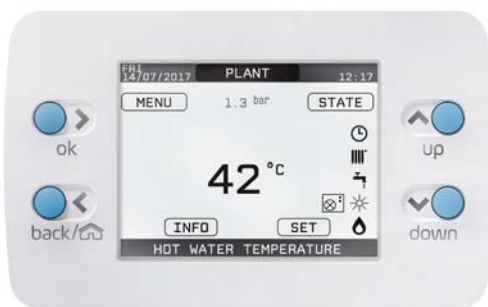
If during the operation of EXCLUSIVE, in the course of periodic checks carried out by the combustion control, a value exceeding the preset firing rate is identified (e.g. point A), the control system immediately activates the air/gas ratio correction to bring combustion back within the set values.

[A] BURNER WITH
IONISATION SENSOR
[B] INTEGRATED ELECTRONIC BOARD

BENEFITS OF ACC SYSTEM

- › **SYSTEM SELF-ADAPTATION TO GAS TYPE AND COMPOSITION (ALSO INSTANTANEOUS).** GAS CONVERSION KITS NO LONGER REQUIRED
- › **NO MECHANICAL CALIBRATION** OR MANUAL OPERATIONS ON COMBUSTION TO BE CARRIED OUT ON THE BOILER
- › **STOICHIOMETRIC RATIO CONSERVATION.** CONSTANT AIR/GAS RATIO IN ANY CIRCUMSTANCE
- › **CONTINUOUS EMISSION CONTROL** IN COMPLIANCE WITH REGULATORY CONSTRAINTS
- › **MAXIMISED GAS SAVING** WITH RESPECT TO TRADITIONAL SYSTEMS THANKS TO THE CONSTANT PRESERVATION OF POWER MODULAR EFFICIENCY
- › **SELF-LEARNING.** OPTIMISED EFFICIENCY AND RELIABILITY OVER TIME THANKS TO SELF-LEARNING WITH COMPENSATION BY ACC SYSTEM





LATEST GENERATION INTERFACE

EXCLUSIVE is provided with a modern and user-friendly control panel, elegantly covered by a flap that allows to glimpse the light of **EXCLUSIVE “green gem”**, the LED light bar that indicates its current operation status.

The interface features a 3.5” backlit LCD display which **communicates with the user/installer through TEXTS and ICONS**. 4 buttons allow to browse the panel in a **simple and intuitive manner**, accessing to all the boiler and system settings and parameters. The **advanced self-diagnosis**, together with the EXCLUSIVE functions of the control panel, complete its innovative profile.

EXCLUSIVE FUNCTIONS

- › **PROGRAMMING BY HOUR**
HEATING PROGRAMMABLE BY HOUR AND BY SINGLE ZONE
- › **SMART FILLING**
AUTONOMOUS AND SAFE FILLING ACTIVATION
- › **SYSTEM PRESSURE**
SHOWN ON DISPLAY
- › **TIME**
DISPLAYED ALSO AS SCREEN SAVER
- › **PRE-HEATING**
ACTIVATION OF DOMESTIC HOT WATER PRE-HEATING
- › **SCHEDULED MAINTENANCE**
SMART SYSTEM THAT WARNS THE USER WHEN BOILER MAINTENANCE IS REQUIRED



ALWAYS CONNECTED

With BeSMART WiFi, Beretta's new WiFi Control, it is possible to control and manage home comfort from anywhere, through a simple and intuitive App, via Smartphone or Tablet. Thanks to OTBus connection, **EXCLUSIVE is compatible with all the BeSMART functions, even the most advanced.**



Available as an accessory, BeSMART can be installed also as ON/OFF room thermostat, without WiFi.



FIND OUT ALL THE TECHNICAL CHARACTERISTICS, BENEFITS AND SYSTEM LAYOUTS OF BeSMART ON THE WEBSITE,
WWW.BESMART-HOME.COM

FUNCTIONS OF BeSMART WIFI WITH EXCLUSIVE (ALSO VIA APP)

- › **COMPATIBLE** WITH SMARTPHONES AND TABLETS THAT USE ANDROID SYSTEM (\geq VERS. 3.0) OR IOS.
- › **PROGRAMMING** BY HOUR, DAY AND WEEK, WITH POSSIBLE CHOICE OF SEVERAL PROGRAMMES.
- › HOURLY PROGRAMMING FOR **HEATING/ COOLING AND DOMESTIC WATER** IN 30-MIN INTERVALS.
- › POSSIBILITY TO MANAGE, ALSO VIA APP, **UP TO 8 HEATING AREAS**, EACH IN MODULATING MODE.
- › **OPERATING MODES**: AUTO, MANUAL, PARTY, SUMMER, HOLIDAYS.
- › **THREE TEMPERATURE LEVELS**: COMFORT, ECONOMY, ANTI-FREEZE.
- › **INDOOR AND OUTDOOR** TEMPERATURE READING ALSO VIA INTERNET.
- › **ALARM READING AND BOILER RESET** (ALSO FROM APP!)
- › **REMOTE CONTROL AND MODULATING TIMED THERMOSTAT FUNCTION (BAND 0.5°C)**. CLASS VI AND 4% CONTRIBUTION ACCORDING TO ERP DIRECTIVE ON SEASONAL PERFORMANCE, IN SYSTEM CALCULATION.

EFFICIENT ENERGY CHOICE, FOR A TAILOR-MADE COMFORT

EXCLUSIVE is a **HYBRID READY** solution. The boiler is the main element of **HYBRID READY** product offer, which is the new hybrid technology system designed and developed in Beretta Research Laboratories.

Such system, created to respond to the current and future needs of integration and management of the various energy sources (Gas/Electricity/Renewable), also includes the most innovative methods for

energy accumulation and distribution. Thanks to its new communication BUS, **EXCLUSIVE** is able to perfectly interact with the Energy Manager **REC 10H**, real thinking logic that constantly controls the hybrid system, implemented to always offer the best comfort in an efficient and effective way. Beretta hybrid system, with its modular approach to the multi-energy world, is able to offer an increasingly tailor-made comfort and to evolve over time, with the addition of new components that increase its overall efficiency.

EXCLUSIVE, WITH ITS **HYBRID READY** SOLUTION, IS THE IDEAL CHOICE FOR FORWARD LOOKING PEOPLE WHO WANT TO INVEST IN A PRODUCT THAT WILL KEEP ITS VALUE UNCHANGED OVER TIME.

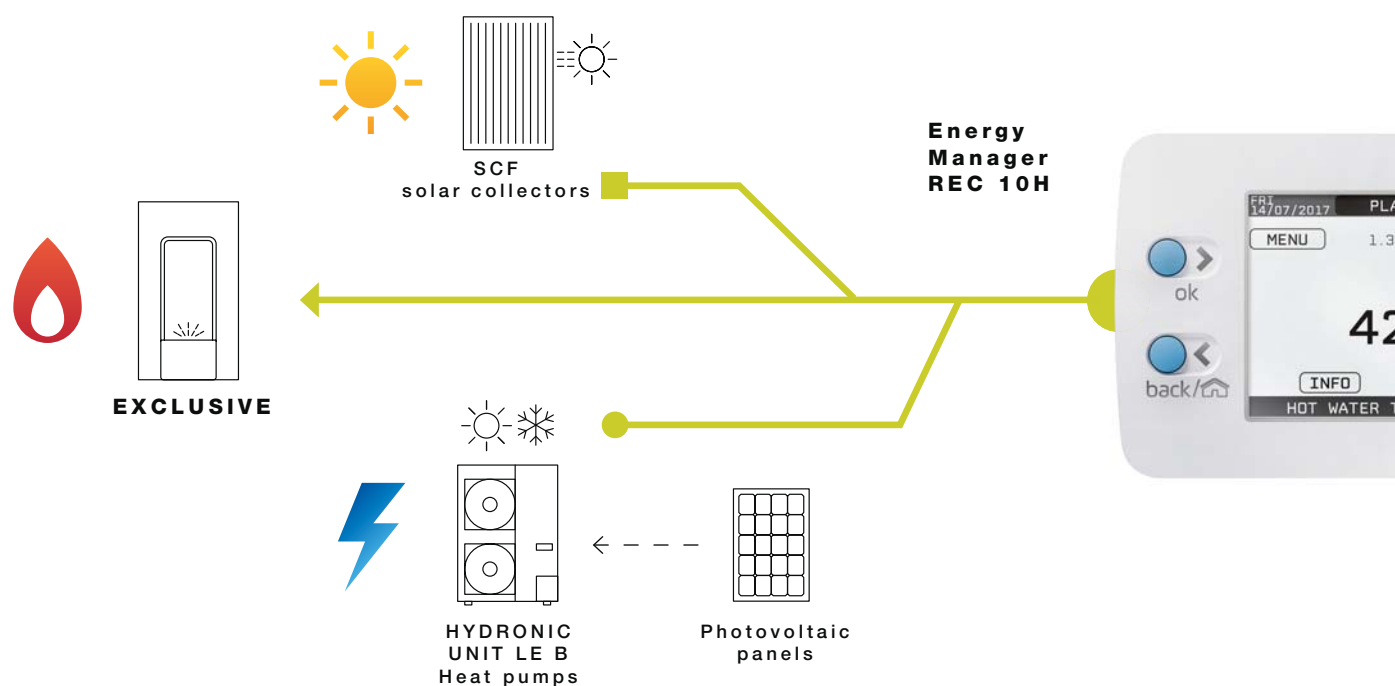


BERETTA'S HYBRID READY SOLUTIONS ARE PROVIDED WITH BERETTA BUS COMMUNICATION PROTOCOL TO INTERACT WITH EACH OTHER.



- [A] REC 10H
- [B] EXCLUSIVE
- [C] CONNECT HYBRID
- [D] HYDRONIC UNIT LE B

GENERATION



BENEFITS OF BERETTA HYBRID

THROUGH THE SYSTEM ELECTRONICS AND THE NEW CONNECT HYBRID HYDRAULIC SEPARATORS, TO BE USED TOGETHER WITH BOILER, HEAT PUMP AND OTHER SPECIFIC ACCESSORIES (E.G. CYLINDERS, SOLAR PANELS, ETC.), THE IMPLEMENTATION OF COMPOSITE HYBRID SYSTEMS* IS EVEN MORE CONVENIENT.

› TAILOR-MADE COMFORT

The peculiarity of climatic design for every territory and every house is facilitated by the use of hybrid systems, that allow a number of system solutions for a tailor-made comfort in compliance with the regulations, giving preference to renewable energy sources.

› HIGH ENERGY CLASSES A+, A++

The very high efficiency of hybrid systems allows to reach the best energy classes for the maximum increase in building value.

› VERSATILITY AND EASE OF INSTALLATION

Both in existing systems and in new houses, the hybrid systems* feature quietness of operation, modularity, compact size and installation versatility. Beretta BUS protocol, available in **Hybrid Ready solutions**, further facilitates system connections.

› CHOICE OF ENERGY PRIORITIES

Thanks to ENERGY MANAGER electronics, available as accessory to be installed in the boiler, it is possible to manage the various energy priorities, meeting the requests for domestic water, cooling and heating.

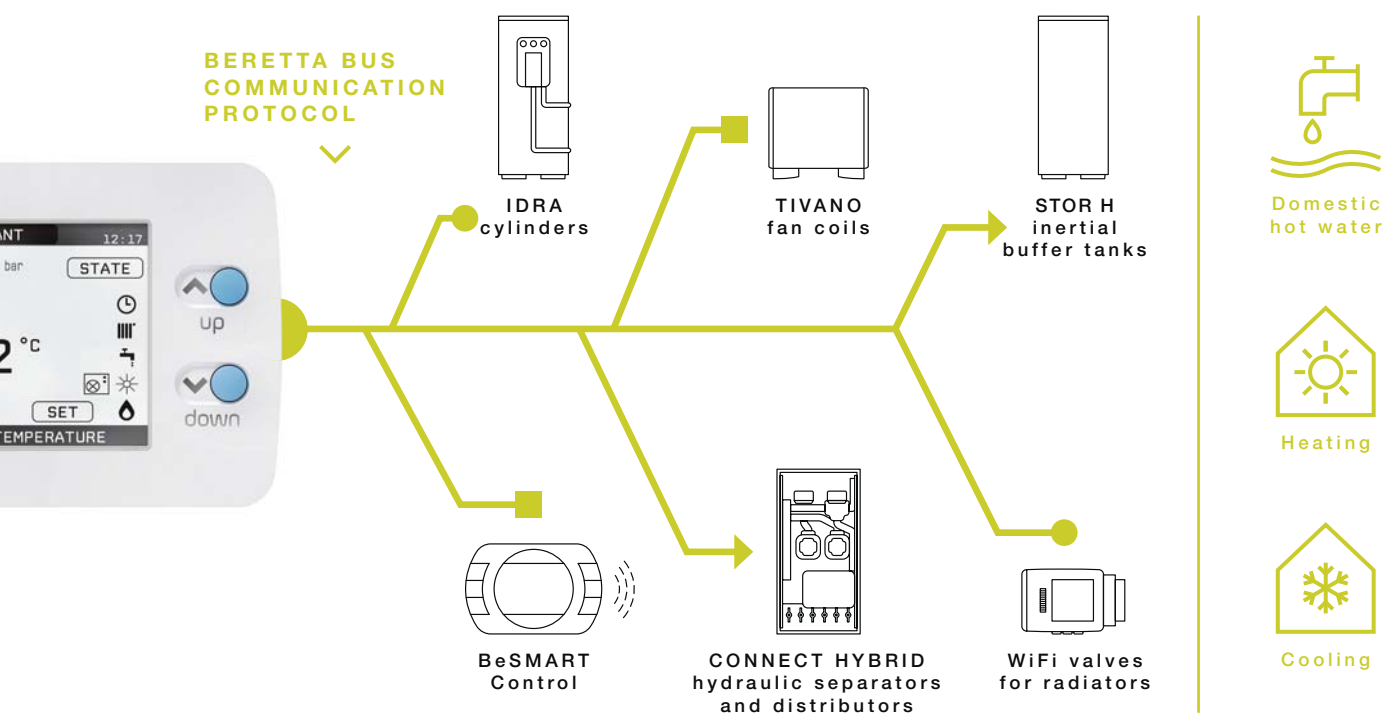
- DHW request: the integration of a DHW tank can be carried out from solar (if any) and/or from heat pump. The boiler carries out the possible heat integration based on the set temperature.
- Ambient heating: the request can be met by prioritising the use of the heat pump after check of outdoor temperature and temperature required by the system.
- Ambient cooling: the request can be met by the heat pump only.

› PHOTOVOLTAIC SYSTEM

The hybrid systems* are able to interface with photovoltaic systems so as to allow the system to manage the available heat sources with the maximum efficiency, prioritising the heat pump contribution.

(*) Consult the reference hybrid layouts in the following pages.

ACCUMULATION AND DISTRIBUTION



SYSTEM LAYOUTS FOR HYBRID SYSTEMS

These pages describe five hybrid systems that can be implemented with EXCLUSIVE, both in combined version and in heating-only version.

The layouts are only examples of the possible configurations of Beretta products. Thanks to the modularity and versatility that

characterise Beretta's hybrid, it is possible to compose the system based on your installation needs.

On page 23 of this document, the layouts below are summarised in a configurable solution table, with the list per codes of the various elements that compose them.

LAYOUT 1

HEATING, COOLING AND DHW WITH INSTANTANEOUS COMBINED BOILER

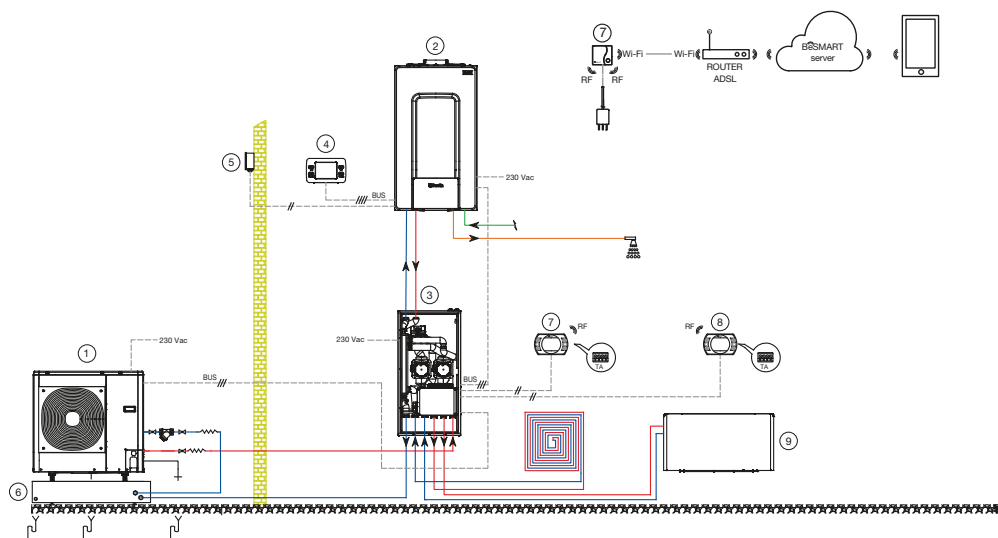
Hybrid system **with EXCLUSIVE boiler in instantaneous combined version** + heat pump on 2-zone system: direct and mixed, through Connect Hybrid 1 AT + 1 BT (with Connect Hybrid 1D or 2D it is possible to install the hybrid system on single-zone or bi-zone system at the same temperature). Domestic hot water is supplied by the combined boiler. The ambient management can be carried out through BeSMART Comfort Control in ON/OFF connection with the system. For applications with WiFi BOX, BeSMART allows remote programming through APP.

LAYOUT 2

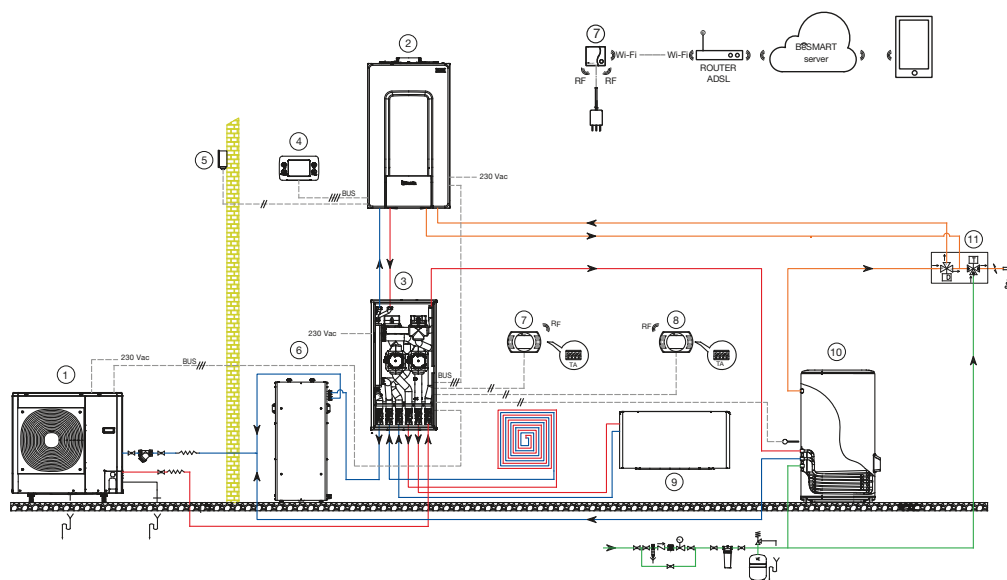
HEATING, COOLING AND DHW WITH SINGLE-COIL CYLINDER DHW heating from heat pump and instantaneous combined boiler

Hybrid system **with boiler EXCLUSIVE in instantaneous combined version** + heat pump on system 2 zones: direct and mixed, through Connect Hybrid 1 AT + 1 BT (with Connect Hybrid 1D or 2D it is possible to install the hybrid system on single-zone or bi-zone system at the same temperature), with three-way valve kit. Domestic hot water is supplied by the heater, pre-heated by the heat pump and, if necessary, by the boiler through diverting/mixing valve kit. The ambient management can be carried out through BeSMART Comfort Control in ON/OFF connection with the system. For applications with WiFi BOX, BeSMART allows remote programming through APP.

-
- | | |
|--|--------------------------------|
| ① HEAT PUMP HYDRONIC UNIT LE B | ⑩ IDRA MS CYLINDER |
| ② EXCLUSIVE BOILER | ⑪ MIXING VALVE |
| ③ CONNECT HYBRID HYDRAULIC SEPARATOR | — HEATING FLOW |
| ④ ENERGY MANAGER REC 10H (to be installed in the boiler) | — HEATING RETURN |
| ⑤ EXTERNAL PROBE | — DOMESTIC HOT WATER OUTLET |
| ⑥ STOR H INERTIAL BUFFER TANK | — COLD WATER INLET |
| ⑦ BeSMART WIFI COMFORT CONTROL | --- PROBE ELECTRIC CONNECTIONS |
| ⑧ BESMART COMFORT CONTROL | — SOLAR FLOW |
| ⑨ TIVANO FAN COILS | — SOLAR RETURN |



LAYOUT 1: EXCLUSIVE C, ENERGY MANAGER REC 10H, HYDRONIC UNIT LE B, CONNECT HYBRID, BeSMART WIFI.



LAYOUT 2: EXCLUSIVE C, ENERGY MANAGER REC 10H, HYDRONIC UNIT LE B, CONNECT HYBRID, IDRA MS, BeSMART WIFI.

LAYOUT 3**HEATING, COOLING AND DHW WITH DOUBLE-COIL CYLINDER**

DHW heating from solar thermal, heat pump and instantaneous combined boiler

Hybrid system **with EXCLUSIVE boiler in instantaneous combined version** + heat pump on 2-zone system: direct and mixed, through Connect Hybrid 1 AT + 1 BT (with Connect Hybrid 1D or 2D it is possible to install the hybrid system on single-zone or bi-zone system at the same temperature), with three-way valve kit. Domestic hot water is supplied by the heater, heated by solar thermal and heat pump and, if necessary, by the boiler through diverting/mixing valve kit. The ambient management can be carried out through BeSMART Comfort Control in ON/OFF connection with the system. For applications with WiFi BOX, BeSMART allows remote programming through APP.

LAYOUT 4**HEATING, COOLING AND DHW WITH DOUBLE-COIL CYLINDER**

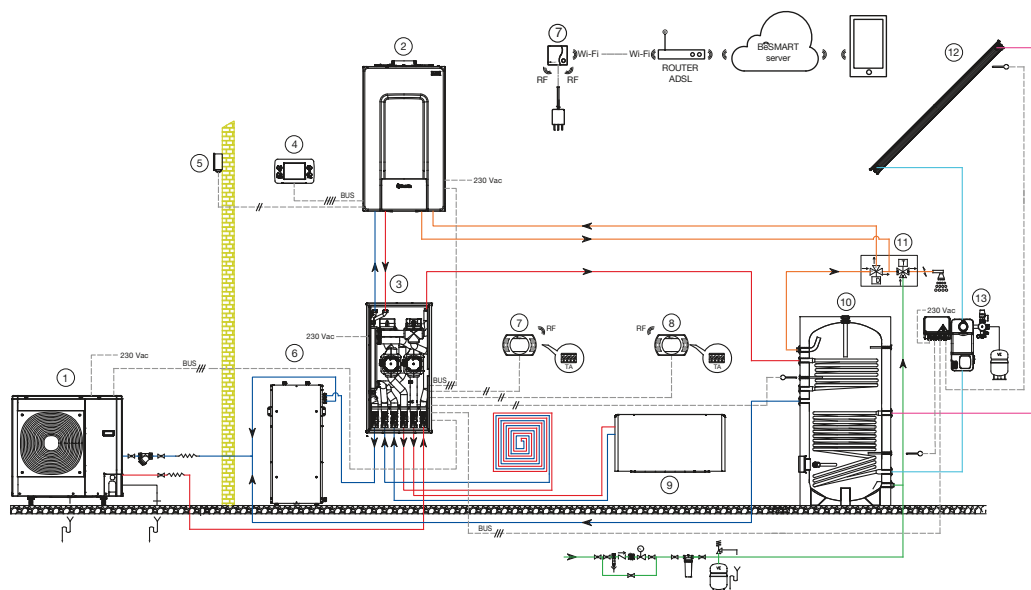
DHW heating from heat pump and heating-only boiler

Hybrid system **with EXCLUSIVE boiler in heating-only version** + heat pump on 2-zone system: direct and mixed, through Connect Hybrid 1 AT + 1 BT (with Connect Hybrid 1D or 2D it is possible to install the hybrid system on single-zone or bi-zone system at the same temperature), with three-way valve kit. Domestic hot water is supplied by the heater, pre-heated by the heat pump and by the heating-only boiler integrating the heater. The ambient management can be carried out through BeSMART Comfort Control in ON/OFF connection with the system. For applications with WiFi BOX, BeSMART allows remote programming through APP. **The system is able to interface with a photovoltaic system in order to change the energy choice and promote the use of the electric source in self-production condition (this function can be used with all the configurations).**

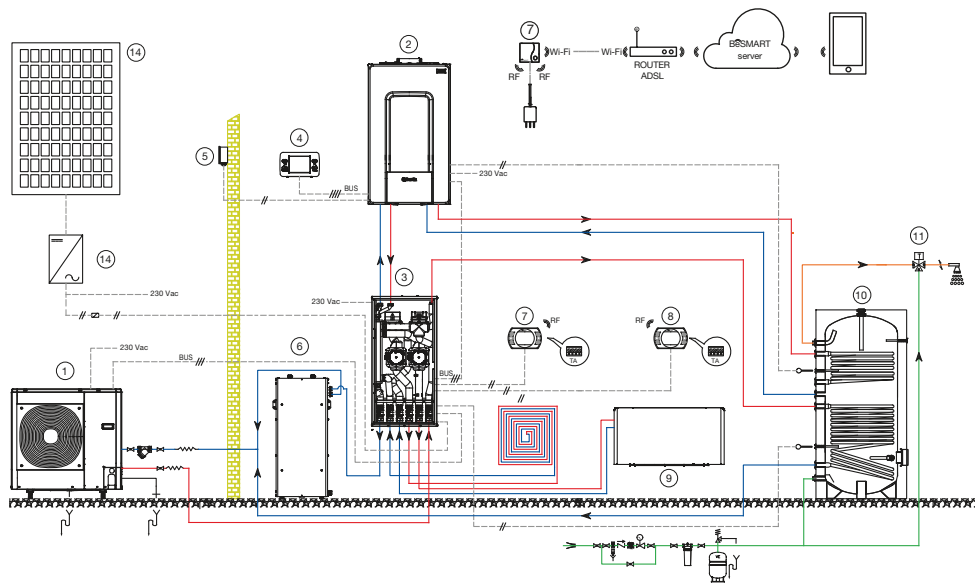
LAYOUT 5**HEATING, COOLING AND DHW WITH DOUBLE-COIL CYLINDER**

DHW heating from solar thermal and heating-only boiler

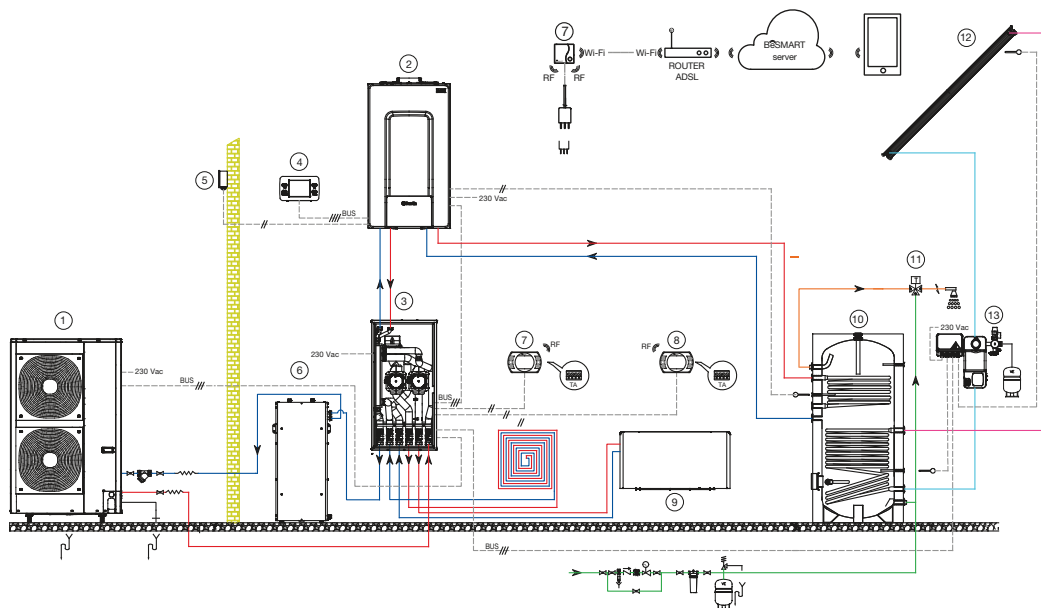
Hybrid system **with EXCLUSIVE boiler in heating-only version** + heat pump on 2-zone system: direct and mixed, through 1 Connect Hybrid 1 AT + 1 BT (with Connect Hybrid 1D or 2D it is possible to install the hybrid system on single-zone or bi-zone system at the same temperature). Domestic hot water is supplied by the heater, heated by solar thermal and boiler. The ambient management can be carried out through BeSMART Comfort Control in ON/OFF connection with the system. For applications with WiFi BOX, BeSMART allows remote programming through APP.



LAYOUT 3: EXCLUSIVE C, ENERGY MANAGER REC 10H, HYDRONIC UNIT LE B, CONNECT HYBRID, SOLAR THERMAL, IDRA DS, SMART WIFI.



LAYOUT 4: EXCLUSIVE R, ENERGY MANAGER REC 10H, HYDRONIC UNIT LE B, CONNECT HYBRID, IDRA DS, BeSMART WIFI.



LAYOUT 5: EXCLUSIVE R, ENERGY MANAGER REC 10H, HYDRONIC UNIT LE B, CONNECT HYBRID, SOLAR THERMAL, IDRA DS, BeSMART WIFI.

- | | |
|---|---|
| ① HYDRONIC UNIT LE B HEAT PUMP | ⑪ MIXING VALVE |
| ② EXCLUSIVE BOILER | ⑫ SCF SOLAR COLLECTOR |
| ③ CONNECT HYBRID HYDRAULIC SEPARATOR | ⑬ SOLAR HYDRAULIC UNIT WITH PROBES |
| ④ ENERGY MANAGER REC 10H
(to be installed in the boiler) | ⑭ PHOTOVOLTAIC SYSTEM (not included in Beretta offer) |
| ⑤ EXTERNAL PROBE | — HEATING FLOW |
| ⑥ STOR H INERTIAL BUFFER TANK | — HEATING RETURN |
| ⑦ BeSMART WIFI CONTROL | — DOMESTIC HOT WATER OUTLET |
| ⑧ BeSMART CONTROL | — COLD WATER INLET |
| ⑨ TIVANO FAN COILS | --- PROBE ELECTRIC CONNECTIONS |
| ⑩ IDRA DS CYLINDER | — SOLAR FLOW |
| | — SOLAR RETURN |

EXCLUSIVE OFFER IN SINGLE CONFIGURATION





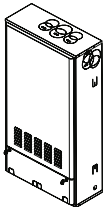
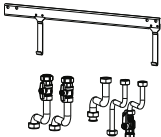

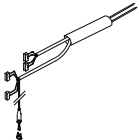


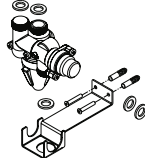
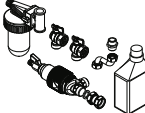

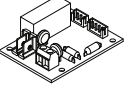
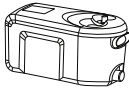
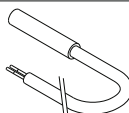




- Active combustion control through **ACC** system
- EXCLUSIVE plus the BeSMART Wi-Fi Comfort Control only (optional) forms a system in class **A+**
- Energy efficiency 94% (ETAs) in heating
- Indoor, outdoor and built-in installation (with optional kit)
- IPX5D electrical protection level
- Low consumption modulating circulator (EEI ≤ 0.20) head 6 m, can be electronically modified up to 7 m
- Hydraulic connections and external probe available as optionals
- Exclusive 25 C is available also with built-in clapet as C₍₁₀₎ appliance
- Boiler **HYBRID READY**, may be combined with Beretta hybrid system through interface REC 10H available as accessory
- LPG version selectable from parameter, gas conversion kit not required

PRE-MIXED CONDENSING BOILER



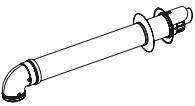
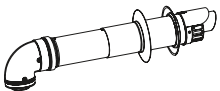







Code	Model	Dimensions HxWxD (mm)	Heat Output CH/DHW Min - Max (kW)	DHW production (l/min - ΔT25 °C)	Class	Notes
INSTANTANEOUS COMBINED - NEW						
➤ 20125265	EXCLUSIVE 25C	740 x 420 x 275	3.7 - 18.0 / 3.7 - 26.0	14.9	A	A
➤ 20145062	EXCLUSIVE 25C with clapet	740 x 420 x 275	3.7 - 18.0 / 3.7 - 26.0	14.9	A	A (1)
➤ 20125266	EXCLUSIVE 30C	740 x 420 x 275	4.3 - 24.0 / 4.3 - 30.0	17.2	A	A
➤ 20142749	EXCLUSIVE 35C	740 x 420 x 350	4.9 - 30.0 / 4.9 - 34.6	19.8	A	A
➤ 20142206	EXCLUSIVE 42C	740 x 420 x 350	6.0 - 35.0 / 6.0 - 42.0	24.1	A	A
HEATING ONLY - NEW						
➤ 20127972	EXCLUSIVE 25R	740 x 420 x 275	3.7 - 18.0 / 3.7 - 26.0	-	A	- (2)
➤ 20142750	EXCLUSIVE 35R	740 x 420 x 350	4.9 - 30.0 / 4.9 - 34.6	-	A	- (2)
➤ 20142207	EXCLUSIVE 42R	740 x 420 x 350	6.0 - 35.0 / 6.0 - 42.0	-	A	- (2)

Code	Description
HYDRAULIC ACCESSORIES (1)	
EXCLUSIVE-DEDICATED NEW CODES	
>> 20132005 	KIT WITH WALL INSTALLATION HYDRAULIC CONNECTIONS AND GAS TAP FOR EXCLUSIVE C Kit composed of no. 1 gas tap, no. 1 domestic water tap, no. 2 copper connection pipes (DHW inlet and outlet) no. 2 copper connection pipes (heating delivery and return), no. 2 1/2" screw connections no. 2 3/4" screw connections, no. 2 1/2" hex nuts, no. 2 3/4" hex nuts. The kit is completed by a set of no. 6 flat seals.
>> 20133386 	KIT WITH WALL INSTALLATION HYDRAULIC CONNECTIONS AND GAS TAP FOR EXCLUSIVE R Kit composed of no. 1 gas tap, no. 2 copper connection pipes (heating delivery and return), no. 2 3/4" screw connections, no. 2 3/4" hex nuts. The kit is completed by a set of no. 3 flat seals.
>> 20133516 	KIT WITH WALL INSTALLATION HYDRAULIC CONNECTIONS AND HEATING, DHW AND GAS TAPS FOR EXCLUSIVE C Kit composed of no. 2 taps (delivery and return), no. 1 gas tap, no. 1 domestic water tap, no. 2 copper connection pipes (DHW inlet and outlet), no. 2 copper connection pipes (heating delivery and return), no. 2 1/2" screw connections, no. 2 3/4" screw connections, no. 2 1/2" hex nuts, no. 2 3/4" hex nuts. The kit is completed by a set of no. 8 flat seals.
>> 20133517 	KIT WITH WALL INSTALLATION HYDRAULIC CONNECTIONS AND HEATING AND GAS TAPS FOR EXCLUSIVE R Kit composed of no. 2 taps (delivery and return), no. 1 gas tap, no. 2 copper connection pipes (heating delivery and return), no. 2 3/4" screw connections, no. 2 3/4" hexagonal nuts. The kit is completed by a set of no. 5 flat seals.
COMPLETION ACCESSORIES	
1103289 	BUILT-IN BOX FOR VERSIONS 25C-25R-30C Built-in box, dimensions 1223 x 654 x 255 (+26)* to allow installation of built-in EXCLUSIVE and also outdoor installation in partially covered areas. * The front part of the BOX protrudes 26 mm with respect to the built-in frame. Includes no.1 connection cross member, no.1 gas tap, no. 2 3/4" connections, no. 2 1/2" connections, no.2 1/2" hexagonal nuts and no.2 3/4" lock nuts.
>> 20134477 	CONNECTION KIT FOR BUILT-IN INSTALLATION FOR C INSTANTANEOUS COMBINED VERSIONS Kit composed of no.1 EXCLUSIVE fastening template, no. 2 taps (delivery and return), no.1 domestic water tap, no.5 copper connection pipes (DHW inlet and outlet, heating delivery and return, gas). The kit is completed by a set of flat seals.
20049748 	EXTERNAL TEMPERATURE PROBE The external probe kit allows detecting the outdoor temperature and activate the climate control programme. Can be wall-mounted and directly connected to the board present in the boiler. External probe not required if the EXCLUSIVE boiler is combined with BeSMART WiFi Comfort Control (system in class A+). To be necessarily equipped in case of hybrid systems with EXCLUSIVE for the management of energy source operating modes.
>> 20134475 	ANTI-FREEZE RESISTANCE KIT The anti-freeze resistance kit, recommended for outdoor installations, allows protecting the domestic water circuit and the condensate collection siphon from freeze within the limits stated in the instruction manual.

Code		Description
20035644		SOLAR MIXING DIVERTING VALVE KIT (C MODELS ONLY) Diverting/mixing valve kit for instantaneous combined wall-hung boilers. Includes no.1 temperature probe for heater.
>> 20135495		KIT WITH MAGNETIC FILTER + POLYPHOSPHATE DISPENSER + LIQUID FOR SYSTEM The kit includes the polyphosphate dispenser, a copper tube for cold water, the L-shaped taps for heating, the magnetic filter and the liquid for systems (approx. 0.5 kg). The scale inhibitor, anti-corrosion and biocidal liquid for systems can be used for underfloor and radiant panel heating to prevent the formation of organic deposits and algae and is prescribed by DMiSe of 26/06/15 concerning requirements on energy efficiency in buildings. The liquid protects systems supplied with water having a temporary hardness up to 36°fr against hardwater deposits and corrosion.
>> 20135496		POLYPHOSPHATE DISPENSER KIT Polyphosphate dispenser with cold water copper tube, seals.
20000784		ELECTRONIC BOARD TO CONTROL THE MAIN HEATING ZONE TO BE USED WITH REMOTE CONTROL OR SUPPLEMENTARY PUMP Electronic board for management of a second pump (supplementary pump).
20097192		CONDENSATE PUMP KIT Highly reliable piston pump with built-in tank (0.37 litres) specifically designed to evacuate acid condensate. Kit composed of no. 1 piston pump, no. 1 integrated detection block, no. 1 connection cable L= 1.5 m, no. 2 power supply wires, no. 2 wires for safety alarm control, support for wall mounting, no. 1 adapter int. Ø 15-20-24-32-40 mm, 5 m of tube (int. Ø 6 mm), no. 1 accessory to prevent siphon effect, no. 1 sealed expansion condensate evacuation connection, no. 4 tube retaining clips, no. 2 screws and no. 2 blocks.
1220599		SOCKET PROBE KIT FOR DHW TANKS (MODELS R ONLY) The remote connected heater probe allows to check the temperature of water stored in the external heater.
DUMMY		
>> 20134283		EXCLUSIVE DUMMY Real size, demonstrative dummy (not functioning) 740 x 420 x 275 mm, equipped with casing, Beretta screen-printed flap, flue outlet, user interface display and boiler labels.
BeSMART COMFORT CONTROLS FOR MANAGEMENT OF DOMESTIC COMFORT (1)		
20111887		BESMART WIFI CONTROL Control for Exclusive wireless management, composed of a timed thermostat and a WiFi device for internet connection through home ADSL WiFi modem. It also allows the remote switching on and off of Exclusive through APP (iOS and Android ≥ vers. 3.0) with Smartphone and Tablet. Remote Control and Modulating Timed Thermostat function (band 0.5°C) in conjunction with Exclusive (Class VI according to ErP directive). Compatible with optional kit "WiFi modem for SIM card". (Also includes: batteries, connection cables, transformer, screws, blocks, double-sided adhesive tapes, magnetic adhesive tape.
20111889		BeSMART CONTROL Timed thermostat for cable control of Exclusive. Remote Control and Modulating Timed Thermostat function (band 0.5°C, Class V according to ErP directive). Compatible with "WiFi modem for SIM card" and "WiFi Box" optional kits for internet connection through home ADSL WiFi modem. It also includes: batteries, screws, blocks, double-sided adhesive tapes).
20112079		RF - WIRELESS BOILER RECEIVER Pre-wired radio frequency receiver to be connected in the boiler. It can be used to wirelessly connect a BeSMART Comfort Control with the boiler or to connect a BeSMART WiFi Comfort Control with a boiler far from the home WiFi network. (Also includes magnetic adhesive tape).

(1) Includes 90° lowered curve code 20129172.
 (2) Includes vertical adapter kit code 20129174.

Code	Description	
FLUE ACCESSORIES		EXCLUSIVE-DEDICATED NEW CODES
20134830		FLUE ADAPTER KIT FROM Ø60/100 TO Ø80+80 (AIR INLET SWELLING POSITION)
20129765		FLUE ADAPTER KIT FROM Ø60/100 TO Ø80
20129175		Ø60/100 HORIZONTAL FLUE TERMINAL KIT WITH REDUCED CONCENTRIC BEND (1)
20129176		Ø60/100 TELESCOPIC HORIZONTAL FLUE TERMINAL KIT WITH REDUCED CONCENTRIC BEND (1)
20129177		Ø60/100 VERTICAL FLUE TERMINAL KIT (2)
20129768		Ø80 FLUE ADAPTER KIT FOR INSTALLATION B23 WITH AIR INLET IN THE BOX
20129769		FLUE ADAPTER KIT FROM Ø60/100 TO Ø80 FOR OUTDOOR FOR INSTALLATION TYPE B23
20129172		BOILER START Ø60/100 90°-REDUCED CONCENTRIC BEND
20129174		Ø60/100 VERTICAL FLUE ADAPTER KIT

EXCLUSIVE OFFER IN HYBRID SYSTEM CONFIGURATION

EXCLUSIVE is conceived as Hybrid Ready solution and thanks to the Energy Manager REC 10H - Beretta's Hybrid Management Control - can also be installed in conjunction with other energy sources, such as solar thermal (through solar collectors and heaters) and electricity (through heat pumps). Beretta's hybrid system also includes the most innovative energy accumulation and distribution methods, whereby the Energy Manager constantly manages the whole system, from generation to distribution of the energy, to always offer the best

For the complete offer of all the ranges and relevant accessories refer to **Beretta sales catalogue**.



comfort in an efficient and effective way. Please find below the items included in the system and required to implement the system layouts with reference to pages 12-13-14-15.



ENERGY MANAGER AND ZONE CONTROL



- > Hybrid system manager
- > Installed directly on EXCLUSIVE boiler and replaces the standard REC10 user interface
- > Multi-zone control functions, solar system management (if any) and heat pumps
- > Backlit LCD display
- > Can also be used as a single zone manager

Code	Model	Description
20134449	REC 10H CONTROL	Control for hybrid systems, in accordance with the layouts provided, to be installed in EXCLUSIVE boiler. Fulfills the role of system single manager. Includes wall mounting kit in case of use as single zone manager

ACCESSORIES

Code	Description
20134478	 REC 10H POWER SUPPLY UNIT Required if REC 10H is used as single zone manager (wall installation)



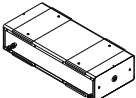
HEAT PUMPS



- > Special air-water hydronic heat pump for hybrid systems
- > Suitable for cooling, heating and domestic hot water
- > High quietness thanks to Twin-Rotary compressor with DC-Inverter technology
- > Operating range included within the temperature range -20 °C / + 46 °C
- > Heating temperature up to 60°C, cooling temperature up to 4°C
- > Equipped with expansion tank and low consumption system circulation pump

Code	Model	Dimensions HxWxD (mm)	Heat. ⁽¹⁾ / Cool. ⁽⁷⁾ (kW)	55 °C	35 °C
20103221	HYDRONIC UNIT LE 4 B	821 x 908 x 326	4.07 / 4.93	A ⁺⁺	A ⁺
20103222	HYDRONIC UNIT LE 6 B	821 x 908 x 326	5.76 / 7.04	A ⁺⁺	A ⁺
20103225	HYDRONIC UNIT LE 8 B	821 x 908 x 326	7.16 / 7.84	A ⁺	A
20103226	HYDRONIC UNIT LE 12 B	1363 x 908 x 326	11.86 / 13.54	A ⁺	A

ACCESSORIES

Code	Description
20131847	 STOR H 50 50-litre inertial buffer tank, ideal for heating integration and for cooling. In case of outdoor installation, use anti-freeze liquid in case of freezing risk

(1) Supplied without built-in 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) Kit to be used only if the diverting valve (code 20131755) is not present in CONNECT HYBRID configuration.





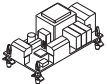
HYBRID HYDRAULIC SEPARATORS



- › Hydraulic separator, can be installed indoor in built-in or wall-hung configuration or outdoor in built-in configuration
- › For direct zone, two direct zones, or 1 high temperature zone and 1 low temperature zone
- › Low consumption self-modulating circulators ($EEL \leq 0.20$)
- › Possible connection of zone thermostats
- › Setting of independent climatic curves for each zone

Code	Model	Dimensions HxWxD (mm)	Zone management	Notes
20130801	CONNECT HYBRID 1D	797 x 400 x 160	1 direct	(1) (2)
20130802	CONNECT HYBRID 2D	797 x 400 x 160	2 direct	(1) (2)
20130803	CONNECT HYBRID 1AT+1BT	797 x 400 x 160	1 high temperature + 1 low temperature	(1) (3)

ACCESSORIES

Code	Description	Notes
20130808	 BUILT-IN BOX Galvanised sheet built-in box, possible white painting; box mandatory for installation of CONNECT HYBRIDS	
20131752	 TAP KIT FOR CONNECT HYBRID System side and heat pump kit composed of no. 6 taps and no. 6 seals	
20132409	 PHOTOVOLTAIC INTERFACE KIT Kit to be installed inside the box to receive input signal (dry contact with no voltage) that identifies the photovoltaic system productivity.	(4)






DHW TANKS

- › Vertical buffer tank heaters in glazed steel
- › High heat exchange capacity coils
- › Presetting for electric resistances (with flange for IDRA MS and IDRA DS)
- › Magnesium anode as standard
- › Maximum operating temperature 99°C
- › 5 year warranty for boiler

Code	Model	Dimensions HxØ (mm)	DHW tank capacity and type (litres)	Dispersion (W)	Class
20128979	IDRA MS 150	1080 x 604	150 single-coil	57	B
20117745	IDRA HP 300	1615 x 600	263 enlarged single-coil	85	C
20117881	IDRA DS 200	1338 x 604	208 double coil	62	B
20117882	IDRA DS 300	1838 x 604	301 double coil	69	B

ACCESSORIES

Code	Description	Notes
20131755	 DIVERTING VALVE KIT FOR CONNECT HYBRID Diverting valve for domestic water heater pre-heating with heat pump. Provided with input for photovoltaic system. To be installed in the built-in box of Connect Hybrids.	(1) (2)
1150529	 MIXING VALVE KIT Diverting valve kit for heating-only wall-hung boilers	
20035644	 DIVERTING/MIXING VALVE KIT Diverting/mixing valve kit for instantaneous combined wall-hung boilers	(2)

(1) Mandatory in case of DHW tank installation.
 (2) Includes no. 1 temperature probe for DHW tank.






SOLAR COLLECTORS ⁽¹⁾

- › Sealed collectors with aluminium profile - 2m² and 2.5m²
- › Highly selective absorber surface
- › Protective film on collector glass, to be removed upon system commissioning
- › Insulation made of rock wool 40mm (SCF-25B) and glass 30mm (SCF-20B)
- › Collector absorption: 95%
- › Possibility to match up to 6 collectors in series

Code	Model	Dimensions HxWxD (mm)	Total surface (m ²)
20095375	SCF-25B	2003 x 1195	2.3
20095379	SCF-20B	1818 x 1097	1.91

ACCESSORIES

Code	Description	Notes
20116162	 SOLAR HYDRAULIC UNIT Return-only solar hydraulic unit CONNECT SOLAR R - 7.5m	(2)
20131756	 SOLAR INTERFACE KIT FOR CONNECT HYBRID Electronic interface board between Connect Hybrid (via bus) to solar pump connection to the two probes (collector and DHW tank)	(2) (3)
20008787	 SOLAR COLLECTOR PROBE KIT	




FAN COILS FOR HEATING, COOLING AND DEHUMIDIFICATION ⁽¹⁾

- › Fan coils for heating, cooling, dehumidification and air filtering
- › High-efficiency INVERTER range
- › Wall mounting (vertical) installation
- › Installation with feet (optional kit)
- › Very low noise
- › Tangential fan with DC-Brushless motor

Code	Model	Dimensions HxWxD (mm)	Heating capacity 70°C water inlet (W)	Heating capacity 50°C water inlet (W)	Total cooling capacity ^(a) (W)	Air flow max (m ³ /h)
20116276	TIVANO 23	580 x 720 x 150	2347	1387	1062	157
20116277	TIVANO 45	580 x 920 x 150	4530	2720	2056	310
20116278	TIVANO 64	580 x 1120 x 150	6436	3827	3211	447

ACCESSORIES (2)

Code	Description	Notes
20116484	 ALPHA TIVANO 20 IN - INTEGRATED TOUCH CONTROL Thermostat on fan coil with speed switch	(2)



BeSMART COMFORT CONTROLS

- › Operation with hybrid system in ON/OFF mode only
- For BeSMART offer consult **page 18**.

(1) For the whole **SOLAR THERMAL** offer, consult **Beretta sales catalogue**.
 (2) Return-only solar hydraulic group and solar interface kit must always be ordered together.
 (3) Includes no. 1 temperature probe for DHW tank and no. 1 probe for solar collector.

(1) For the whole **TIVANO** offer, consult **Beretta sales catalogue**.
 (2) Mandatory use for TIVANO operation.
 (a) Battery inlet water temperature 7 °C, battery outlet water temperature 12 °C.

HYBRID SYSTEM CONFIGURABLE SOLUTIONS

Thanks to EXCLUSIVE range, five reference hybrid system solutions can be achieved. Please find below the commercial codes

that can be selected in accordance with the types of configurations on pages 12-13-14-15.

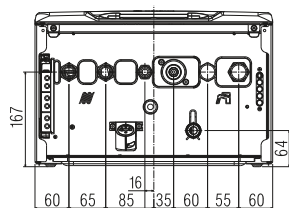
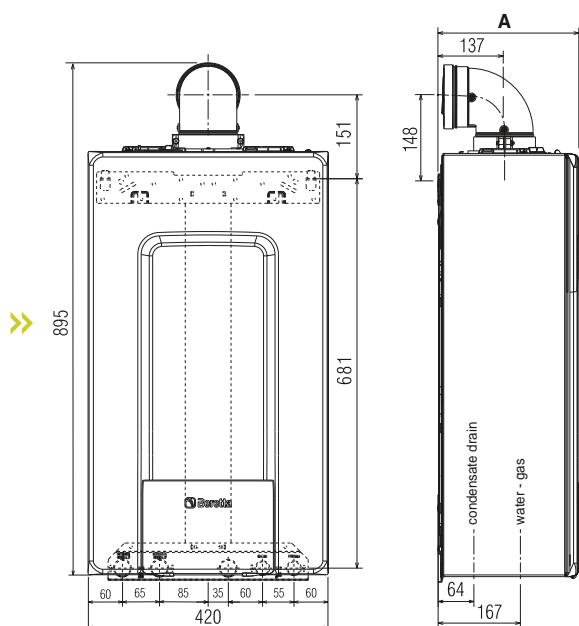
- LAYOUT 1:** HEATING, COOLING AND DHW WITH INSTANTANEOUS COMBI BOILER
- LAYOUT 2:** HEATING, COOLING AND DHW WITH SINGLE-COIL DHW TANK
DHW heating from heat pump and instantaneous combi boiler
- LAYOUT 3:** HEATING, COOLING AND DHW WITH DOUBLE-COIL DHW TANK
DHW heating from solar thermal, heat pump and instantaneous combi boiler
- LAYOUT 4:** HEATING, COOLING AND DHW WITH DOUBLE-COIL DHW TANK
DHW heating from heat pump and heating-only boiler
- LAYOUT 5:** HEATING, COOLING AND DHW WITH DOUBLE-COIL DHW TANK
DHW heating from solar thermal and heating-only boiler

Code	Description	LAYOUT 1	LAYOUT 2	LAYOUT 3	LAYOUT 4	LAYOUT 5
20125265	EXCLUSIVE 25C combi boiler	✓	✓	✓		
20125266	EXCLUSIVE 30C combi boiler	✓	✓	✓		
20142749	EXCLUSIVE 35C combi boiler	✓	✓	✓		
20127972	EXCLUSIVE 25R heating-only boiler				✓	✓
20142750	EXCLUSIVE 35R heating-only boiler				✓	✓
20049748	Outdoor probe with connector	✓	✓	✓	✓	✓
20134449	REC 10H Energy Manager	✓	✓	✓	✓	✓
20103221	HYDRONIC UNIT LE 4 B heat pump with bus	✓	✓	✓	✓	✓
20103222	HYDRONIC UNIT LE 6 B heat pump with bus	✓	✓	✓	✓	✓
20103225	HYDRONIC UNIT LE 8 B heat pump with bus	✓	✓	✓	✓	✓
20103226	HYDRONIC UNIT LE 12 B heat pump with bus	✓	✓	✓	✓	✓
20131847	STOR H 50 inertial buffer tank (1)	✓	✓	✓	✓	✓
20130801	CONNECT HYBRID 1D	✓	✓	✓	✓	✓
20130802	CONNECT HYBRID 2D	✓	✓	✓	✓	✓
20130803	CONNECT HYBRID 1AT+1BT	✓	✓	✓	✓	✓
20128979	IDRA MS 150 single-coil DHW tank		✓			
20117745	IDRA HP 300 single-coil DHW tank		✓			
20117881	IDRA DS 200 double-coil DHW tank			✓	✓	✓
20117882	IDRA DS 300 double-coil DHW tank			✓	✓	✓
20131755	Diverting valve for CONNECT HYBRID		✓	✓	✓	
20035644	Solar diverter mixing valve kit		✓	✓		
1150529	Mixing valve kit				✓	✓
1220599	Socket probe for DHW tank				✓	✓
20131756	Solar interface kit			✓		✓
20116162	Return-only solar hydraulic group			✓		✓
20095375	Solar collector			✓		✓
20095379	SCF-25B solar collector			✓		✓

(1) Reduced 25-litre inertial buffer tank also available (code 20104496). For bigger buffer tanks consult Beretta sales catalogue.
The zones can be managed with BeSMART, or directly with the hybrid system control panel.
All the systems are able to interface with a photovoltaic system.

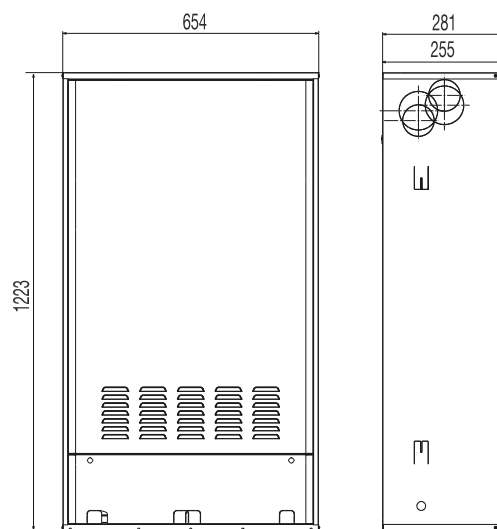
TECHNICAL FEATURES AND DATA

TECHNICAL DRAWINGS



R M S G U E — Models C
R M S G RB MB — Models R

NOTE: For hydraulic connections refer to the table on page 27.



Built-in box for versions 25C-25R-30C

Models C	A	Models R	A
25C	275 mm	25R	275 mm
30C	275 mm	35R	350 mm
35C	350 mm	42R	350 mm
42C	350 mm		

➤ **NEW:** dimension with 90° reduced concentric bend (code 20129172)

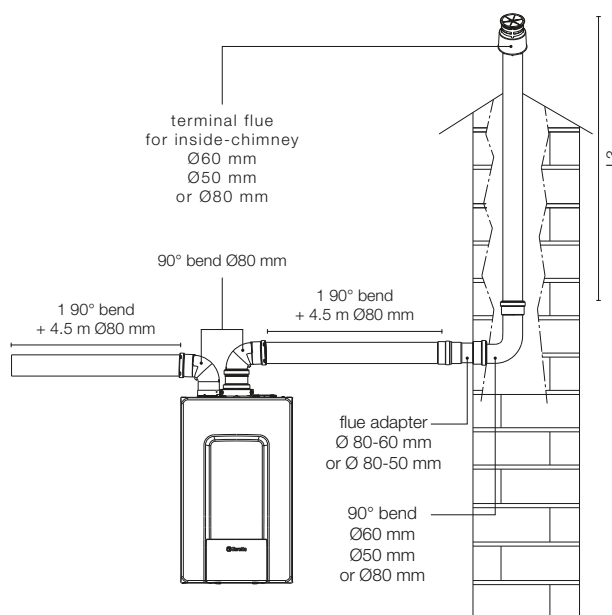
INSIDE-CHIMNEY INSTALLATION Ø50 / Ø60 / Ø80

With EXCLUSIVE, it is possible to route even the most “challenging” flue pipes, thanks to type-approval for flue Ø50 mm, which supplements the traditional one for Ø80 mm and Ø60 mm. The main EXCLUSIVE flue systems (new) are detailed in section “EXCLUSIVE OFFER” of this brochure, whereas the complete flues is available in Beretta sale catalogue. The indications about maximum length are contained in the boiler manuals.

L3: max length (*)	25C/25R	30C	35C/35R
flues for inside-chimney Ø50	31 m	19 m	14 m
flues for inside-chimney Ø60	82 m	53 m	42 m
flues for inside-chimney Ø80	> 82 m	> 53 m	> 42 m

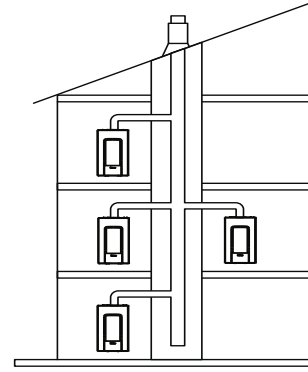
(*) Maximum length that can be installed with class H1 flue pipes ONLY
NOTE: For technical support contact Beretta Pre-sales

The layout is purely for illustrative purposes. All the flue configurations must refer to the current regulations about design and installation.

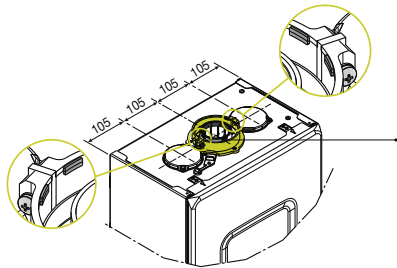


COLLECTIVE FLUE PIPES UNDER PRESSURE

EXCLUSIVE, in version 25C, is also equipped as standard with the flue gas check valve for collective flue pipes under pressure (installation possible according to UNI 7129 of 2015).

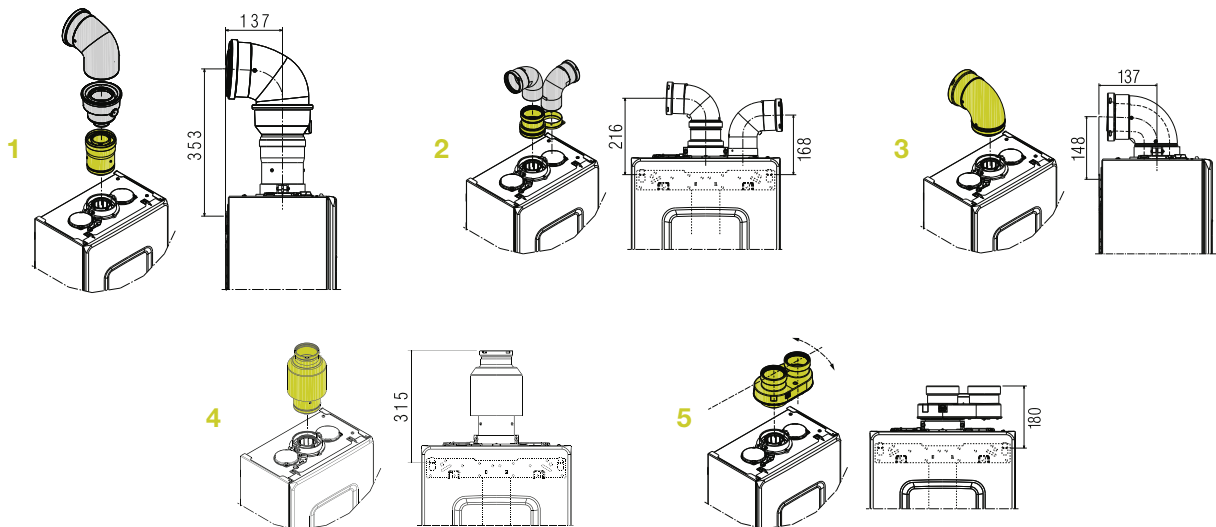


TYPES OF FLUE GAS OUTLETS



» NEW:

- Flange installed as standard
- Quick installation without the need of external collar
- Boiler start-up with special EXCLUSIVE outlets



SUMMARY TABLE OF INLET/OUTLET* MAXIMUM FLUE LENGTHS

Type of flue outlet	Maximum straight length				Pressure losses	
	25C / 25R	30C	35C / 35R	42C / 42R	45° BEND	90° BEND
1 - Ø80-125 mm concentric flue	25 m	25 m	20 m	13 m	1 m	1.5 m
2 - Ø80+80 mm twin flue	70+70 m	50+50 m	35+35 m	27+27 m	1 m	1.5 m
3 - Ø60-100 mm concentric flue (horizontal)	10 m	10 m	8 m	5 m	1.3 m	1.6 m
3 - Ø60-100 mm concentric flue (vertical)	11 m	11 m	9 m	6 m	1.3 m	1.6 m
4 - Ø80 mm flue gas outlet (for type B23P-B53P installation)	125 m	90 m	60 m	50 m	1 m	1.5 m
Losses in maximum straight lengths						
	Ø 50		Ø 60		Ø 80	
5 - Twin system kit (from Ø60-100 to Ø80-80 mm) with air inlet swelling position - NEW	0.5 m		1.2 m		5.5 m	

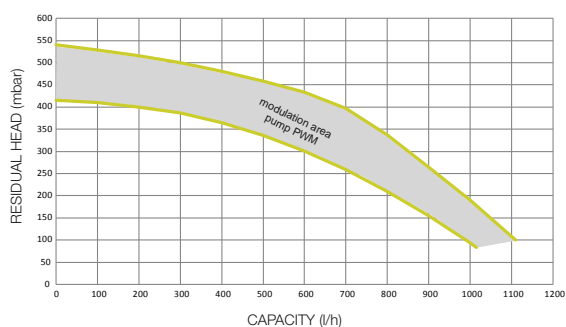
(*) For complete data refer to the installer manual.

FLEX MODULATING CIRCULATORS: LOW-CONSUMPTION OPTIMISED PERFORMANCE

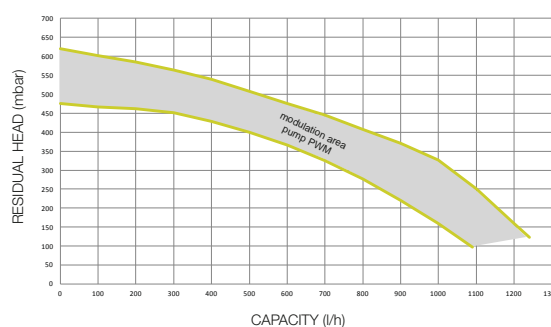
EXCLUSIVE uses a low energy consumption modulating synchronous circulator, as provided for by European Directive ErP. Thanks to this new technology, the circulator electric motor offers an Energy Efficiency Index lower than 0.20, i.e. considerably reduced electricity consumption. The new circulator operates proportionally to the power output of the boiler, thus contributing to

a further reduction of electricity consumption. If required, the residual head can be modified to suit system requirements. Without replacing the standard circulator with a high head one. The name "Flex" comes from this characteristic. The circulator is factory set with head curve of 6metres, and can be set with head curves of 4m, 5m, and 7m.

Circulator residual head 6m (default setting)



Circulator residual head 7m



ENERGY LABELLING

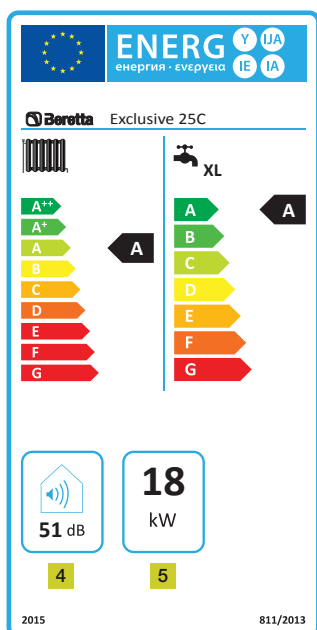


In addition to the labelling of the single product, the European Directive ERP also provides for the creation of a system label in case of systems with several equipment, components and relevant controls. Thanks to the good synergy among the various elements, this second type of labelling allows to

implement systems able to reach efficiency levels greater than those of the single products. Please find below three examples of EXCLUSIVE labelling, two of which in system.

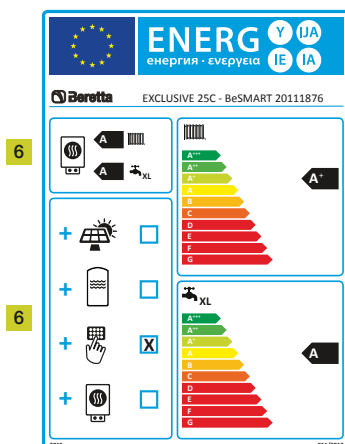
A

EXCLUSIVE in single application
(data about fields 4 and 5 can vary depending on the model)



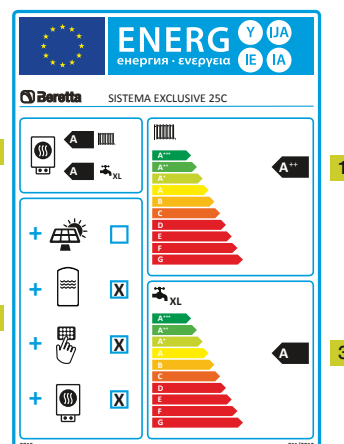
A+

EXCLUSIVE + BeSMART WiFi



A++

EXCLUSIVE + REC 10H +
outdoor probe + HYDRONIC
UNIT LE 4 + STOR H 200



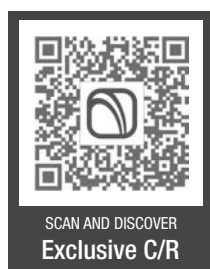
ENERGY LABEL SPECIFICATIONS (according to ErP Regulation)			ErP symbol	UM	EXCLUSIVE 25C	EXCLUSIVE 30C	EXCLUSIVE 35C	EXCLUSIVE 42C	EXCLUSIVE 25R	EXCLUSIVE 35R	EXCLUSIVE 42R
Product boiler code					20125265	20125266	20142749	20142206	20127972*	20142750*	20142207
Seasonal space heating energy efficiency class					A	A	A	A	A	A	A
Water heating energy efficiency class					A	A	A	A	-	-	-
Rated heat output	pnominal	kW			18	24	29	34	18	29	34
Seasonal space heating energy efficiency	η s	%			94	94	94	94	94	94	94
USEFUL HEAT OUTPUT											
At rated heat output and high-temperature regime (**)	P4	kW			17.6	23.5	29.4	34.3	17.6	29.4	34.3
At 30% of rated heat output and low-temperature regime (***)	P1	kW			5.9	7.9	9.8	11.5	5.9	9.8	11.5
USEFUL EFFICIENCY											
At rated heat output and high-temperature regime (**)	η 4	%			88.2	88.3	88.1	88.2	88.2	88.1	88.2
At 30% of rated heat output and low-temperature regime (***)	η 1	%			98.9	98.9	98.6	98.5	98.9	98.6	98.5
Useful efficiency 30% Pn max (G20)		%			109.8	109.7	109.3	109.4	109.8	109.3	109.4
AUXILIARY ELECTRIC CONSUMPTION											
At full load	elmax	W			28.0	37.0	40.0	34.3	28.0	40.0	34.3
At partial load	elmin	W			14.0	14.0	14.0	11.5	14.0	14.0	11.5
In Stand-by mode	PSB	W			3.0	3.0	3.0	3.0	3.0	3.0	3.0
OTHER PARAMETERS											
Stand-by heat loss	Pstby	W			42.0	42.0	37.0	42.0	42.0	37.0	42.0
Pilot flame energy consumption	Pign	W			-	-	-	-	-	-	-
Annual energy consumption	QHE	GJ			37	42	52	62	37	52	62
Sound power level, indoor	LWA	dB			51	53	54	54 ****	51	54	54 ****
NOx emissions	NOx	mg/kWh			46	33	41	44	46	41	44
FOR COMBI HEATING EQUIPMENT											
Declared load profile					XL	XL	XL	XXL	-	-	-
Water heating energy efficiency	η wh	%			86	85	85	85	-	-	-
Daily electricity consumption	Qelec	kWh			0.127	0.167	0.148	0.167	-	-	-
Daily fuel consumption	Qfuel	kWh			22.777	22.921	23.093	28.405	-	-	-
Annual electricity consumption	AEC	kWh			28	37	32	37	-	-	-
Annual fuel consumption	AFC	GJ			17	17	17	22	-	-	-
OTHER TECHNICAL SPECIFICATIONS											
CH heat input (max-min)		kW			18.00 - 3.70	24.00 - 4.30	30.00-4.90	35.00-6.00	18.00 - 3.70	30.00-4.90	35.00-6.00
Nominal DHW heat input (max-min)		kW			26.00 - 3.70	30.00 - 4.30	34.60-4.90	42.00-6.00	26.00 - 3.70	34.60-4.90	42.00-6.00
Nominal heat output (80°/60°)		kW			17.60	23.54	29.37	34.30	17.60	29.37	34.30
Nominal heat output (50°/30°)		kW			19.17	25.56	31.77	37.21	19.17	31.77	37.21
Power supply		V-Hz			230-50	230-50	230-50	230-50	230-50	230-50	230-50
Index of electrical protection		IP			X5D	X5D	X5D	X5D	X5D	X5D	X5D
NOx class					6	6	6	6	6	6	6
CH											
Max pressure-temperature		bar-°C			3-90	3-90	3-90	3-90	3-90	3-90	3-90
Pump: maximum head available (with 1000 l/h)		mbar			326	326	326	326	326	326	326
Membrane expansion tank		l			8	8	9	9	8	9	9
DHW											
Max pressure		bar			6	6	6	6	-	-	-
DHW production at ΔT= 25 °C / 30 °C / 35 °C		l/min			14.9/12.4/10.6	17.2/14.3/12.3	19.8/16.5/14.2	24.1/20.1/17.2	-	-	-
Minimum DHW output		l/min			2	2	2	2	-	-	-
HYDRAULIC AND GAS CONNECTIONS											
CH Flow-Return / Gas		Ø			3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
DHW Inlet-Outlet/DHW tank flow-Return		Ø			1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
GAS											
Gas nominal pressure (G20-G31)		mbar			20-37	20-37	20-37	20-37	20-37	20-37	20-37
DIMENSIONS, WEIGHT											
Boiler dimensions (HxDxW)		mm			740x275x420	740x275x420	740x350x420	740x350x420	740x275x420	740x350x420	740x350x420
Net weight		kg			35	37	38	40	34	37	39
FLUE AND FLUE GAS OUTLET											
Max length for concentric outlet (Ø60-100mm)		m			10	10	8	5	10	8	5
Max length for twin outlet (Ø80+80mm)		m			70+70	50+50	35+35	27+27	70+70	35+35	27+27

* "Heating-only" models are equipped with 3-way valve and are not provided with filling tap.

** High temperature capacity: 60 °C in boiler Return and 80 °C in boiler Delivery.

*** Low temperature capacity: 30°C for condensation boilers, 37°C for low temperature boilers for other heating equipment return temperature 50°C.

**** Provisional data.



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