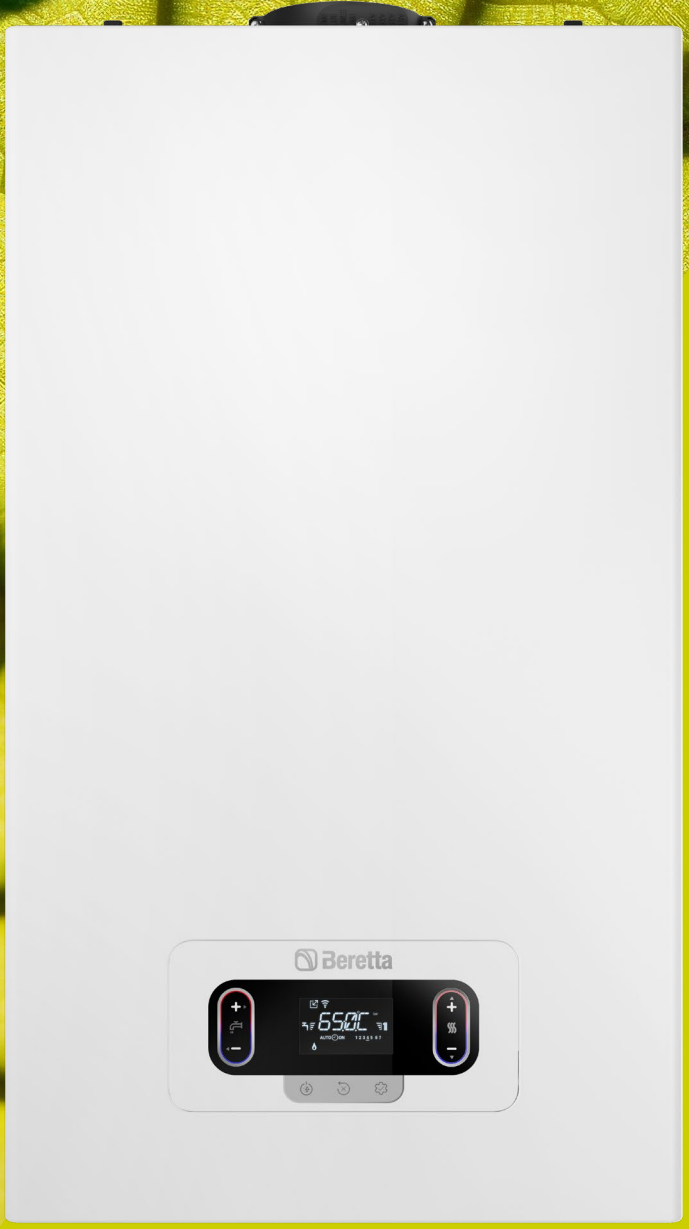
Beretta

MYNUTE EVO X

WALL-HUNG CONDENSING BOILERS
with stainless steel heat exchanger



archiproducts AWARDS 2023 WINNER

archiproducts AWARDS 2023 WINNER SUSTAINABILITY

A Carrier Company

THE RANGE

MYNUTE EVO X range consists of 5 models, to satisfy the different comfort needs:

- **MYNUTE EVO X 20R** (heating only model)
- **MYNUTE EVO X 25C** (combi model)
- **MYNUTE EVO X 30C** (combi model)
- **MYNUTE EVO X 30R** (heating only model)
- **MYNUTE EVO X 35C** (combi model)

Thanks to the ACC adaptive system, no dedicated codes are needed in case of LPG, because the new MYNUTE EVO X is able to automatically adapt its operation to the type of fuel. All models are also certified for use with air propane.

MYNUTE EVOX, INNOVATION AND EFFICIENCY FOR A RELIABLE COMFORT.

HIGH PERFORMANCE

EXCELLENT DHW COMFORT

NEW DIGITAL TOUCHPAD INTERFACE

SILENT OPERATION

COMPACT DESIGN

EASY INSTALLATION AND MAINTENANCE

MYNUTE EVO X REPRESENTS THE LATEST EVOLUTION OF MYNUTE, ONE OF THE MOST REPRESENTATIVE BERETTA WALL-HUNG BOILERS FAMILIES IN TERMS OF RELIABILITY AND PERFORMANCE.

Deeply renewed in technology and design, MYNUTE EVO X features **different advantages compared with the previous series: from the wide modulation range 1:10 on all models, to the new heat exchanger in stainless steel with renewed adaptive combustion system and up to the new touch control**, just to mention the main ones.

Common denominator of the entire range is the **technological research aimed at saving energy, while offering higher comfort**: from silent operation to performance, there are many improved features of MYNUTE EVO X, which the user will not fail to appreciate.

The new range comes in completely renewed aesthetic lines, conveying a **modern and evolved character**, which harmonizes easily in different residential settings, both in replacement and in the new building.

Moreover, like all Beretta boilers of the new generation, MYNUTE EVO X is oriented towards the future: it is in fact **suitable to operate with blends of natural gas and hydrogen up to 20%**, thus helping to reduce the impact on environment and the emissions of condensing boilers in the coming years.

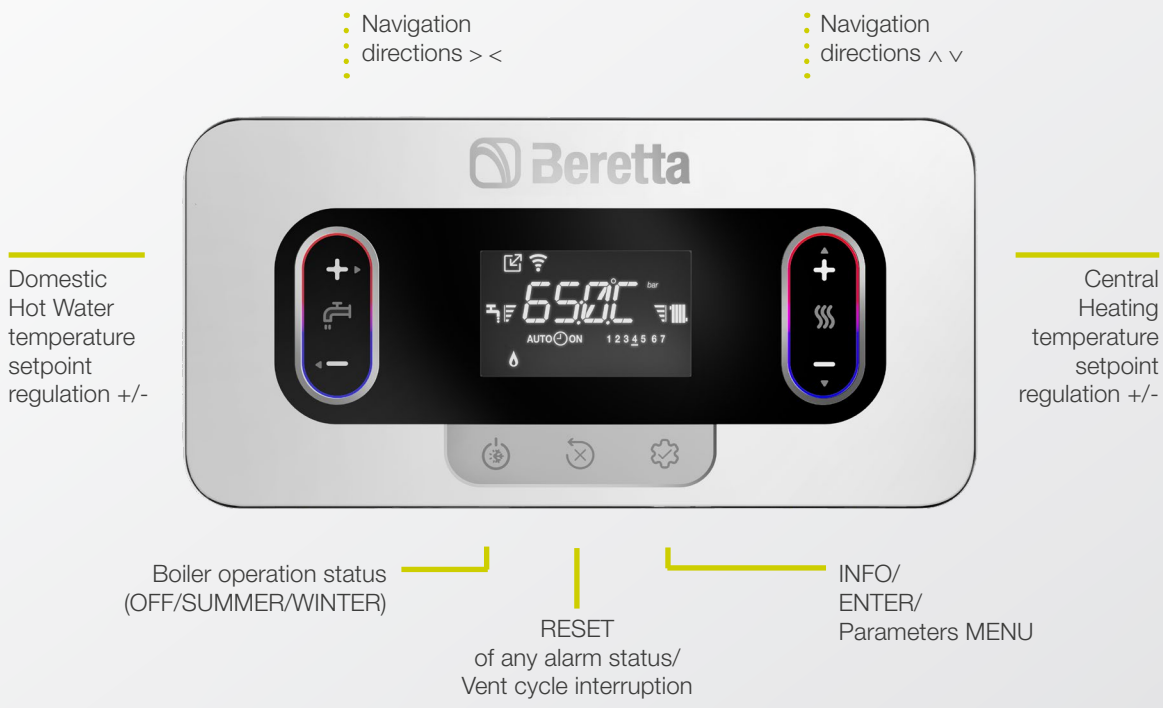
STYLISH DIGITAL TOUCHPAD INTERFACE

COMMUNICATION THROUGH ICONS

- DHW request ongoing
- Generic alarm
- CH water pressure alarm
- Maintenance - flashing with bell icon for alarm
- CH request ongoing
- Flame presence or flame block

MYNUTE EVO X features a **new digital touchpad interface characterized by an eye-catching design**, in line with the current aesthetic standards. Designed with a particular attention to ease of use, the control panel of MYNUTE EVO X provides **user-friendly access to all boiler and system settings and parameters** through a simple “touch” on seven points of its surface.

Each touch activates a buzzer, that generates an acoustic feedback as a confirmation of the operation. The **2,8” HMI display** communicates with the user and the installer through icons, allowing an immediate understanding of the displayed function.



Hi Comfort,
COMFORT AT YOUR FINGERTIPS

MYNUTE EVO X is suitable with Hi, Comfort IoT platform solutions, available as accessories, that allow to manage your home comfort in a simple and intuitive way via App.

Hi, Comfort T100

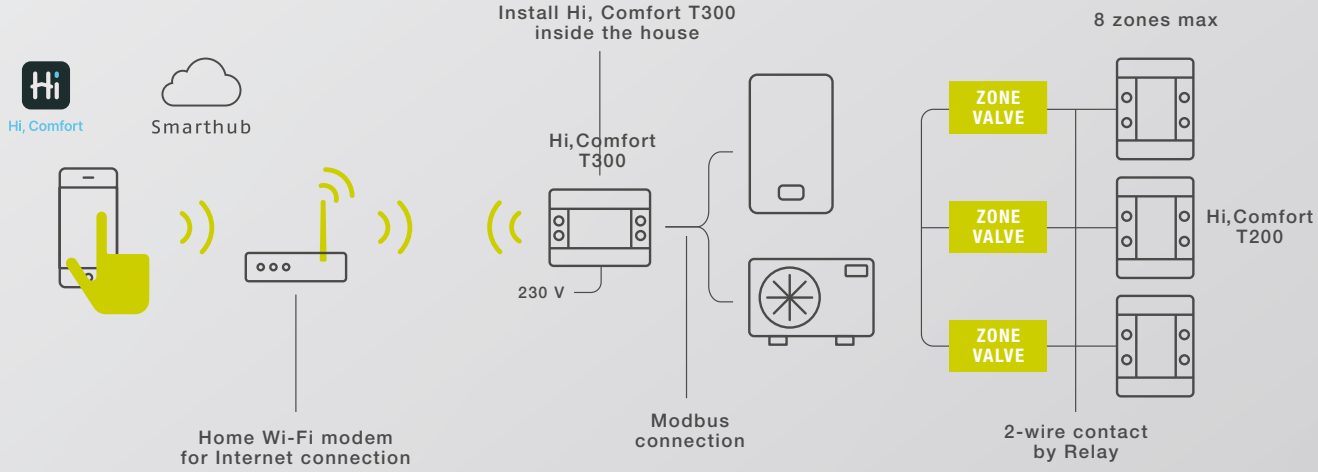
The platform includes the **Hi, Comfort T100**, which can function as a traditional thermostat or be used in smart mode through the Hi, Comfort App, when paired with the Hi, Comfort G100-W Wi-Fi Box. The App is available for free on Android and iOS systems and enables users to **remotely monitor the status, control the temperature of hot water and adjust boiler settings** securely and easily. **Installing the Hi, Comfort T100 is a quick and uncomplicated process**, and it does not require any modifications to the electrical system if replacing an old thermostat. The T100 is powered by batteries and can be installed wirelessly if the installation is equipped with a radio frequency receiver.

Hi, Comfort T300*

MYNUTE EVO X is compatible with Hi, Comfort T300, the new room control featuring an elegant and modern design, which integrates advanced functions, up to the management, even remotely, of a hybrid system. The new advanced room control, with integrated gateway, can manage up to 3 zones through Hi, Comfort T200 thermostat, in the case of a hybrid installation, operates as a true System Manager, for optimized consumption. All this also via Hi, Comfort App.

Hi, Comfort T300*

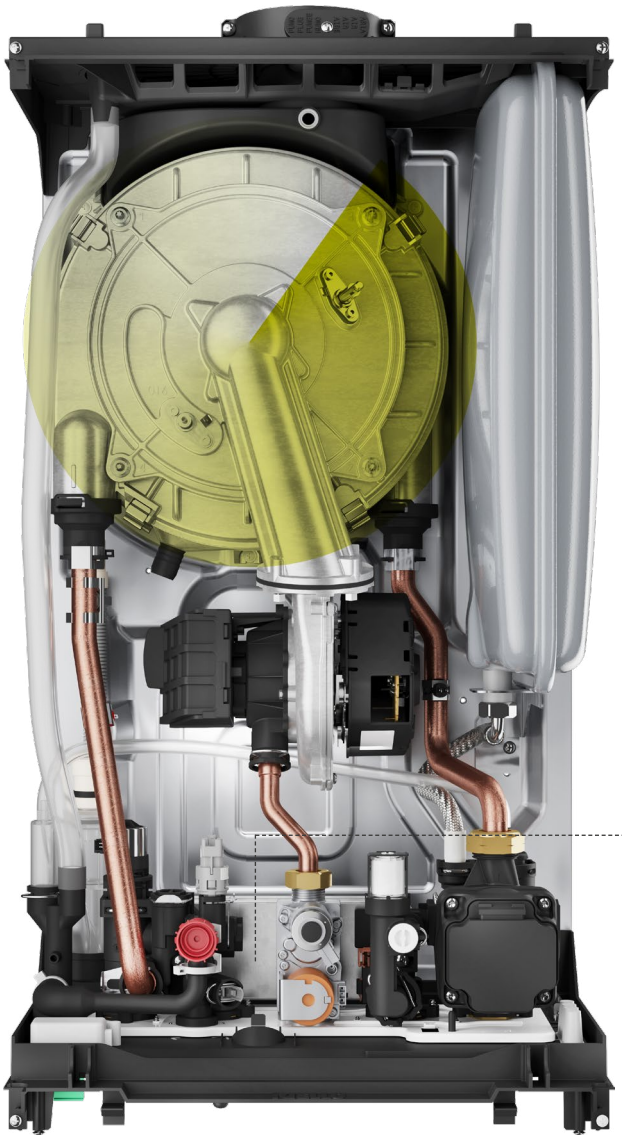
TYPICAL SYSTEM CONFIGURATION SCHEME WITH T300



Hi, Comfort

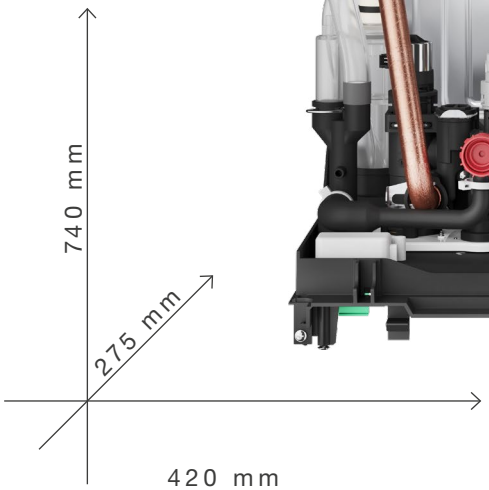
FOR MORE DETAILS ON Hi, Comfort SOLUTIONS
PLEASE VISIT THE SITE www.hi-comfort.com

HIGH EFFICIENCY FOR ENERGY SAVING

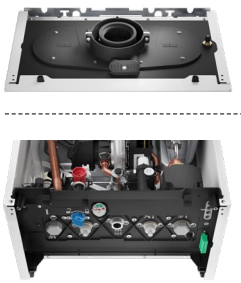


› NEW STAINLESS STEEL HEAT EXCHANGER **WITH COMPLETELY RENEWED ADAPTIVE COMBUSTION CONTROL ACC**

SAME SIZE ACROSS THE ENTIRE RANGE. **EVEN THE 35 KW MODEL HAS A DEPTH OF ONLY 275 MM!**



› **"HIGH PERFORMANCE" DHW PLATE HEAT EXCHANGER DEVELOPED IN-HOUSE**



› **NEW FLUE FLANGE** FEATURING FAST AND SAFE, CLICK-FIT CONNECTIONS.

› LOW NOX EMISSIONS: **CLASS 6 (EN 15502)**

› **HIGH MODULATION RATIO 1:10** ON THE WHOLE RANGE, FOR HIGH ENERGY SAVING

› **ENERGY EFFICIENCY 94%**

› **SIDE EXPANSION VESSEL** 9 LITRES

› TOP COVER AND BOTTOM SHELF MADE OF **NEW CO-MOLDED MATERIALS** TO HELP DURABILITY AND STRENGTH

› **NEW MODULAR DIGITAL LOW ENERGY CIRCULATOR**

› NEW HYDRAULIC GROUP WITH **DIN TYPE CONNECTIONS SEQUENCE FOR EASY REPLACEMENT**

STAINLESS STEEL HEAT EXCHANGER

HIGH EFFICIENCY

QUICK AND STABLE HOT WATER

LOW NOISE OPERATION

EASY HANDLING AND TRANSPORTATION

QUICK AND EASY INSTALLATION

FRONTAL ACCESS TO COMPONENTS

HYBRID READY AS AN OPTION

NEW ADAPTIVE ELECTRONIC COMBUSTION CONTROL

ACC COMBUSTION

MYNUTE EVO X is equipped with a completely new intelligent combustion control system ACC (Active Combustion Control), which **can automatically adapt to the fuel (natural gas, LPG, etc.)** without use of specific codes or accessory conversion kits. **This innovative and sophisticated combustion control allows self-adjustment of combustion**, eliminating the need for initial calibration.The ACC system is also capable of adapting the boiler to operate with different configurations of gas, different pipe lengths and at different altitudes (within the allowed design limits). The ACC is also capable of self-diagnostics so that **combustion is always under control**, with emissions consistently well below regulatory limits.

"HIGH PERFORMANCE" DHW PLATE HEAT EXCHANGER

The MYNUTE EVO X "high performance" DHW exchanger, developed in-house, offers **excellent comfort, along with rapid set point attainment and temperature stability during drawing**.

SILENT OPERATION

Thanks also to the new materials introduced, **MYNUTE EVO X stands out for its silent operation**, an improved feature if compared to the previous homonymous range and particularly appreciable in the case of installation of the boiler inside the home. In fact, the noise level ranges from 45 db(A), for the 30C model, up to 48 db(A) for the 20R model.

EASE OF INSTALLATION AND MAINTENANCE

The ACC system simplifies installation. During first ignition, **the new boiler does not require calibration** and it is sufficient to select the type of fuel gas used by the boiler via the interface, if different from the default (natural gas). The **small size and light weight make the product easily transportable during installation**. **Frontal accessibility to the components** also makes the product easier to maintain for the technician in charge, speeding up his intervention time.

INTEGRATION IN HYBRID SYSTEMS

MYNUTE EVO X can be integrated into Beretta's multi-energy systems (gas/electricity and renewables), through the offer of Hi, Comfort platform accessories.

NEW SUSTAINABLE AND RECYCLABLE PACKAGING

Beretta's ongoing commitment to creating heating solutions that care about people and the environment now extends to packaging. MYNUTE EVO X, like all new generation Beretta boilers, is **packaged in FSC-certified, plastic-free and fully recyclable cardboard**, a further contribution to minimizing the environmental impact of our products.

THE CARDBOARD PACKAGING OF MYNUTE EVO X IS MADE FROM A MIXTURE OF MATERIALS FROM FSC-CERTIFIED FORESTS, RECYCLED MATERIALS AND/OR FSC CONTROLLED WOOD.

FSC (Forest Stewardship Council) is currently 'the most accredited forest certification system in the world in terms of number of certificates issued, robustness of the certification criteria and companies involved in the processes.'

REDUCED CONSUMPTION

PLASTIC FREE PACKAGING

HYDROGEN-READY 20%

COMPOSTABLE SLEEVE

ENERGY SAVING

PRODUCT RECYCLABILITY

The packaging of MYNUTE EVO X is 'plastic free', as the plastic of the elements commonly used for packaging has been completely removed and replaced with compostable materials.

The packaging of MYNUTE EVO X also becomes a vehicle of communication, aimed at informing and sensitizing the user on the important issue of respecting the environment. On both sides of the box some icons, symbolically flanked by a stylized leaf, illustrate the features of MYNUTE EVO X and its packaging helping to reduce the product's carbon footprint.

PRODUCT RECYCLABILITY

Special attention is also paid to end-of-life product recycling, through the **declaration of the recyclability index of the product on the packaging**, equal to 78% on MYNUTE EVO X, an indicator which expresses the degree of material recovery, the so-called Secondary Raw Materials (MPS), useful to be reused in the production of new goods, thus **contributing to the reduction of carbon footprint**.

The product recyclability index was derived from internal estimates based on an independent study conducted in 2022 on a condensing boiler, Model 20139525 Residence 25 Kis (DOMESTIC AEE belonging to Grouping R4 of the WEEE regulations according to Il D.Lgs. 49/2014), by ECOPED, the Italian Consortium for the Management of Waste of Electrical and Electronic Equipment (WEEE), Batteries and Accumulators (Ri.P.A.) and Sports and Leisure Equipment.*

BERETTA IS LOOKING TOWARDS THE FUTURE

EXCLUSIVE EVO X is born now, thinking of tomorrow. The new condensing range is, in fact, designed to operate with blends of natural gas and hydrogen - up to a maximum of 20% - a contribution towards the decarbonisation process started by the European Union.

HYDROGEN READY 20%

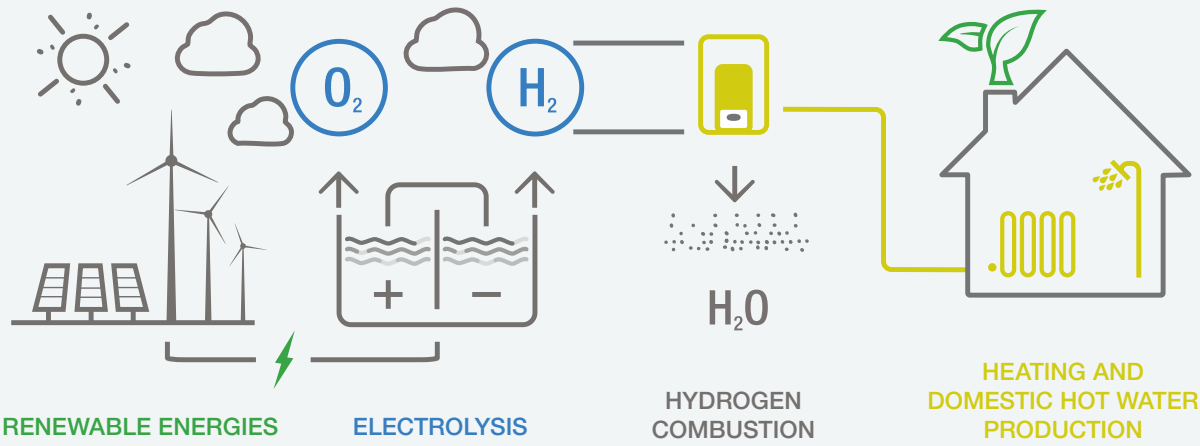
HYDROGEN USE CYCLE

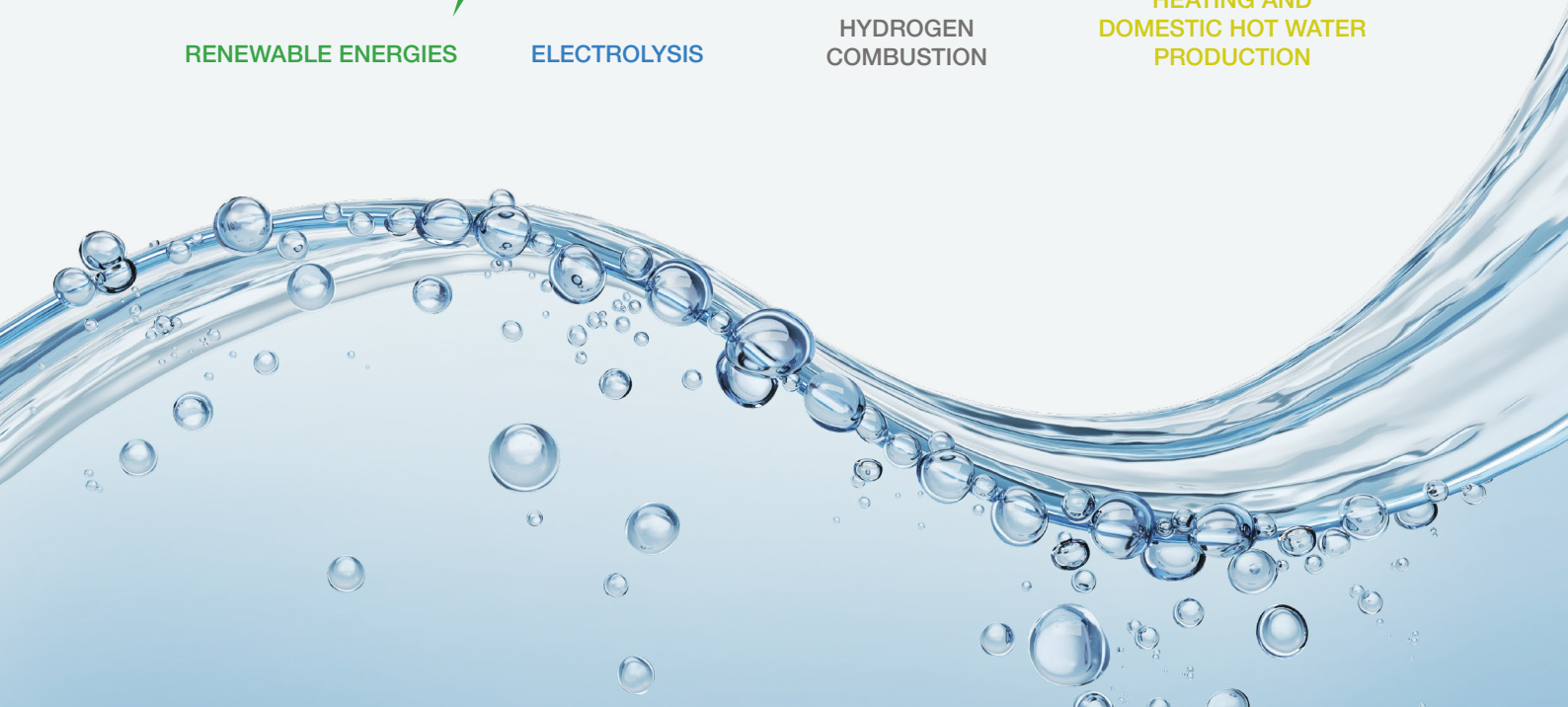
Hydrogen is a safe and clean gas that, blended with natural gas up to a maximum ratio of 20 to 80 percent, makes it possible to generate heat and domestic hot water, with lower CO_2 emissions than other fuels*.

* Data from E. A. Polman (2003) "Reduction of CO_2 emissions by adding hydrogen to natural gas", IEA Greenhouse Gas R&D program, report number PH4/24.

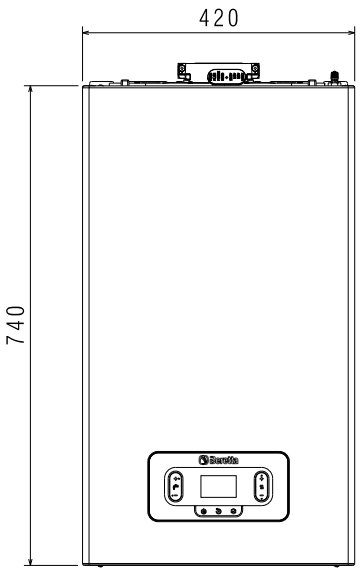
GAS	HIGH CALORIFIC POWER	RELATIVE CO_2 EMISSIONS
H_2 - content [vol%]	Relative Wobbe [%]	[%]
0	100	100
20	94,7	93,7
100	85,0	13,3

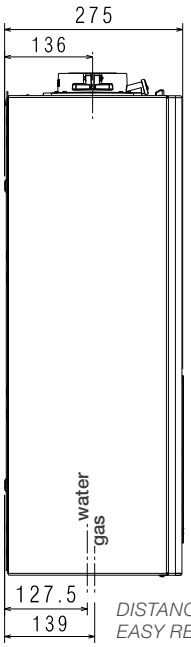
Variation of Wobbe index and CO_2 reduction as a function of hydrogen content. The hydrogen is presumed to be made by large-scale steam reforming and that CO_2 is captured with a recovery rate of 86,7% of CO_2.



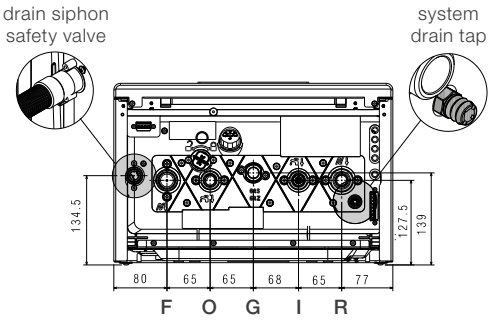


TECHNICAL DRAWINGS





BOTTOM VIEW



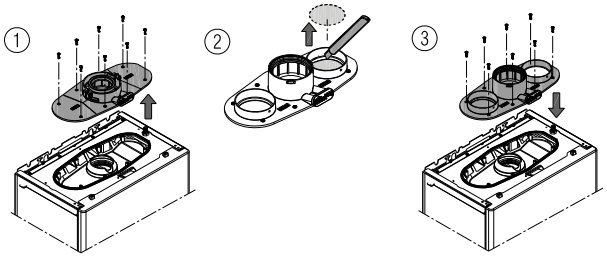
DIN HYDRAULIC CONNECTIONS

F FLOW **O** DHW OUTLET **G** GAS

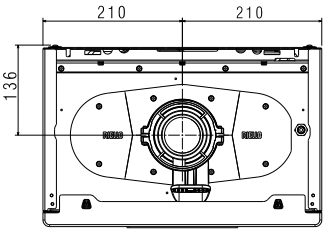
I DCW INLET **R** RETURN

DISTANCE OF THE CONNECTIONS FROM THE WALL DESIGNED FOR EASY REPLACEMENT, EVEN ON A DIFFERENT CONNECTION SEQUENCE

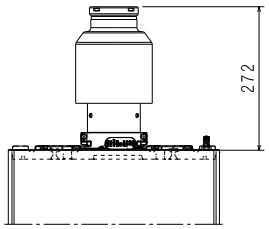
FLUE GAS FLANGE DISASSEMBLY



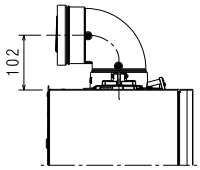
TOP VIEW



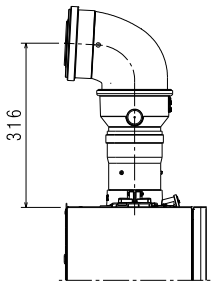
FLUE OPTIONS



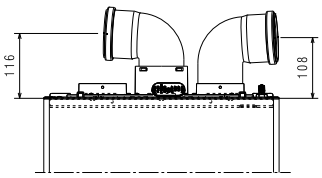
FLUES TYPE
B23P-B53P



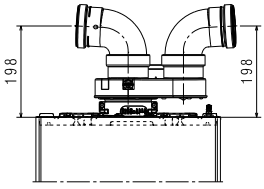
CONCENTRIC FLUES
Ø60-100 mm



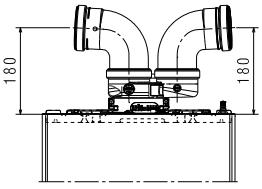
CONCENTRIC FLUES
Ø80-125 mm



TWIN FLUES
Ø80-80 mm



TWIN FLUES Ø80-80 mm
WITH ADAPTER



TWIN FLUES Ø80-80 mm
WITH COMPACT ADAPTER

TECHNICAL DATA

ENERGY LABELLING SPECIFICATIONS (according to ErP regulations)		UoM	25 C	30 C	35 C	20 R (*)	30 R (*)
Seasonal space heating energy efficiency class		D → A+++ (1)	A	A	A	A	A
Water heating energy efficiency class		F → A+ (2)	A	A	A	-	-
Rated heat output	pnominal	kW	20	24	29	20	29
Seasonal space heating energy efficiency	ηs	%	94	94	94	94	94
USEFUL HEAT OUTPUT							
At rated heat output, high-temperature regime (**)	P4	kW	19,5	24,4	29,3	19,5	29,3
At 30% of rated heat output and low-temperature regime (***)	P1	kW	6,5	8,2	9,8	6,5	9,8
USEFUL EFFICIENCY							
At rated heat output and high-temperature regime (**)	η4	%	87,9	87,9	87,9	87,9	87,9
At 30% of rated heat output and low-temperature regime (***)	η1	%	98,0	98,0	97,9	98,0	97,9
AUXILIARY ELECTRICITY CONSUMPTION							
At full load	elmax	W	30,0	31,1	44,3	30	44,3
At part load	elmin	W	12,2	13,3	13,6	12,2	13,6
In Stand-by mode	PSB	W	3,7	3,7	3,7	3,7	3,7
OTHER PARAMETERS							
Stand-by heat losses	Pstby	W	29,9	35,2	35,2	29,9	35,2
Annual energy consumption	QHE	GJ	60,0	76,0	91,0	60,0	91,0
Sound power level, indoors	LWA	dB	48,0	45,0	47,0	48,0	47,0
NOx emissions	NOx	mg/kWh	22,0	19,0	35,0	22,0	35,0
FOR COMBINATION HEATERS							
Declared load profile			XL	XL	XL	/	/
Water heating energy efficiency	ηwh	%	85	85	87	/	/
Daily electricity consumption	Qelec	kWh	0,173	0,138	0,102	/	/
Daily fuel consumption	Qfuel	kWh	23,014	23,010	22,524	/	/
Annual electricity consumption	AEC	kWh	38	30	22	/	/
Annual fuel consumption	AFC	GJ	17	17	17	/	/
OTHER SPECIFICATIONS							
CH Heat INPUT (max-min)		kW	20,0- 2,5	25,0- 3,0	30,0-3,5	20,0-2,5	30,0-3,5
DHW heat nominal INPUT (max-min)		kW	25,0-2,5	30,0- 3,0	34,9-3,5	20,0-2,5	34,9-3,5
Power supply voltage		V-Hz	230-50	230-50	230-50	230-50	230-50
Degree of protection		IP	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D
NOX class			6	6	6	6	6
CH							
Max pressure-temperature		bar-°C	3-90	3-90	3-90	3-90	3-90
Pump: max available head (flow rate 1000 l/h)		mbar	450	450	450	450	450
Membrane expansion tank		l	9	9	9	9	9
DHW							
Max pressure		bar	8	8	8	/	/
DHW production at ΔT=25°C / 30°C / 35°C		l/min	14,3/11,9/10,2	17,2/14,3/12,3	20,0/16,7/14,3	/	/
DHW minimum flow rate		l/min	2	2	2	/	/
GAS, CONNECTIONS							
Inlet gas pressure (G20-G31)		mbar	20-37	20-37	20-37	20-37	20-37
CH Flow - Return / Gas inlet		Ø	3/4''	3/4''	3/4''	3/4''	3/4''
DHW Inlet - Outlet / DHW tank Flow - Return		Ø	1/2''	1/2''	1/2''	3/4''	3/4''
DIMENSIONS, WEIGHT							
Boiler dimensions (HxDxW)		mm	740x275x420	740x275x420	740x275x420	740x275x420	740x275x420
Net weight		kg	29	30	30	28	29
FLUE PIPES AND AIR INTAKE							
Max length for concentric flues (Ø60-100 mm)		m	10	8	8	10	8
Max length for twin flues (Ø80-80 mm)		m	69+69 (A)	36+36 (B)	36+36 (B)	69+69 (A)	36+36 (B)

(1) The range of energy efficiency class of this products category is between D and A+++.
(2) The range of energy efficiency class of this products category is between F and A+.
(*) The 'Only heating' models are supplied with a three-ways valve. Filling tap is not available.
(**) High-temperature regime means: 60°C Return and 80°C Flow of the boiler.
(***) Low temperature means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).
A) up to 75+75 m with swelling adapter available as option
B) up to 39+39 m with swelling adapter available as option

Beretta

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SCAN AND DISCOVER
MYNUTE EVO X

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Carrier