

NEW



WALL-HUNG CONDENSING BOILERS
with stainless steel heat exchanger

BLS

A Carrier Company



THE RANGE

The BLS range consists of two models, covering the main residential home comfort needs for heating and domestic hot water production:

- **BLS 25C** (combi model) - natural gas
- **BLS 28C** (combi model) - natural gas

BLS: A COST-CONSCIOUS, EFFICIENT SOLUTION FOR YOUR HOME COMFORT

With BLS new wall-hung boilers range, Beretta aims to offer a cost-conscious solution for the comfort needs of everyday life, without renouncing the main values of the brand, starting from efficiency and innovation up to user-friendliness and protection of the environment.

Reliable and energy-saving, BLS features a completely new proprietary stainless steel heat exchanger, characterized by robustness and high-quality materials, providing efficiency and durability over time.

High domestic hot water comfort, low running costs and quiet operation are among the most appreciated benefits of this new boiler. Its new

digital control panel, with 4 pushbuttons, allows an easy setting of the main functions of the boiler and communicates intuitively with the user via icons through the backlit display.

Easy to install and maintain, BLS features a compact size and thanks to its minimal design, fits harmoniously into any home décor.

Moreover, like all Beretta boilers of the new generation, BLS is future-oriented, being 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.



**STAINLESS STEEL
HEAT EXCHANGER**



**HIGH DHW
COMFORT**




**HIGH
EFFICIENCY**



**LOW NOISE
OPERATION**



**DIGITAL
INTERFACE**

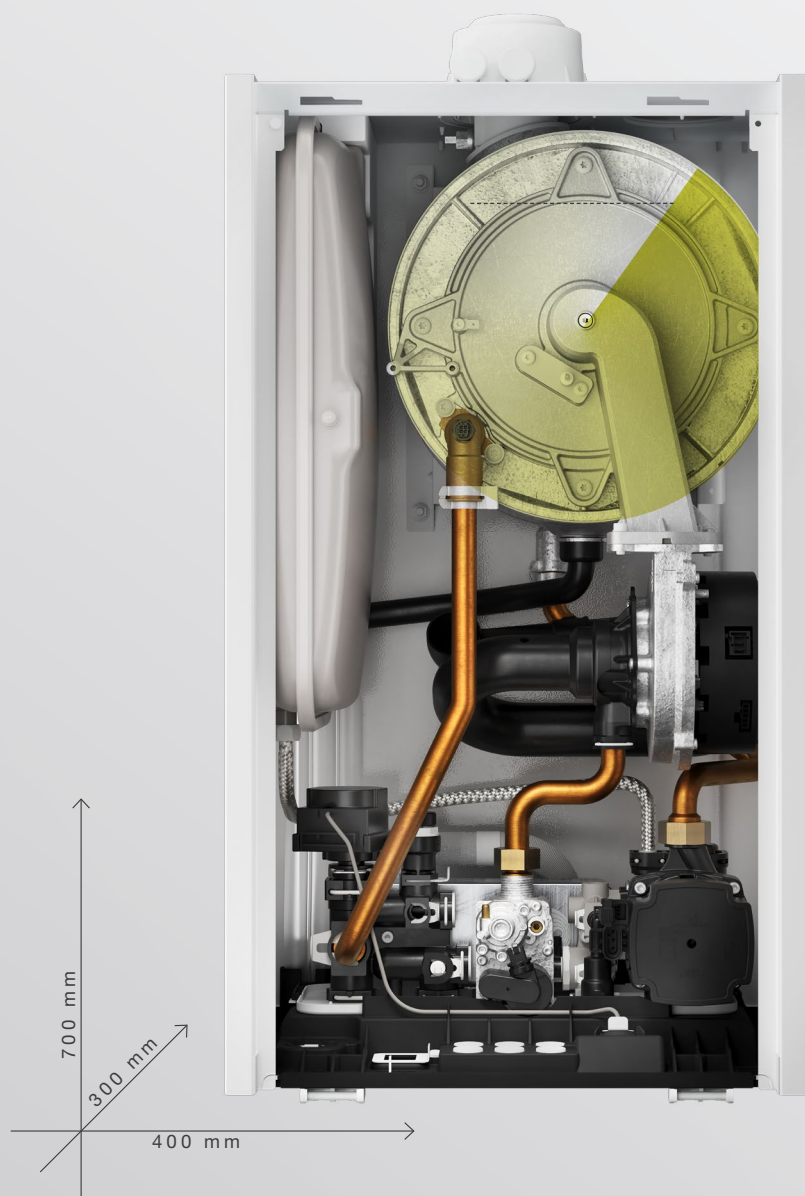


**COMPACT
SIZE**

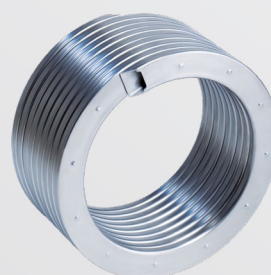


**HYDROGEN
READY
20%**

TECHNOLOGY AND QUALITY



➤ THE NEW PRIMARY HEAT EXCHANGER IN STAINLESS STEEL 441 IS COMPACT AND ROBUST, WITH FRONT ACCESS AND HIGH RESISTANT TO CORROSION. IT IS MADE OF A **COILED TUBE** WITH WIDE SECTION, ALLOWING CLEANLINESS OVER TIME.



- **WIDE MODULATION RATIO 5:1** WITH PREMIX COMBUSTION
- **LOW NOX CLASS 6** (EN 15502)
- **BUILT-IN THERMOREGULATION** WITH EXTERNAL PROBE AVAILABLE AS AN ACCESSORY
- **RANGE RATED CERTIFICATION*** TO ADAPT THE POWER OF THE BOILER TO THE REAL THERMAL REQUIREMENTS OF THE SYSTEM
- **HIGH DHW COMFORT** ★★ ★
- **LOW ENERGY CIRCULATOR** ($EEL \leq 0,20$) WITH 6 M HEAD










- **8 LITRES EXPANSION VESSEL**
- **NEW HYDRAULIC GROUP** WITH DIN TYPE CONNECTIONS SEQUENCE FOR EASY REPLACEMENT
- **ANALOG MANOMETER** AS STANDARD
- **NEW FLUE GAS FLANGE** WITH INTEGRATED FLUE GAS ANALYSIS SOCKETS
- **COMPATIBLE** WITH THE **Hi, Comfort T100** THERMOSTAT IN ON-OFF OR OT-BUS MODE AND SMART MODE (IF PAIRED WITH THE HI, COMFORT G100-W WI-FI BOX)

* 28 kW model

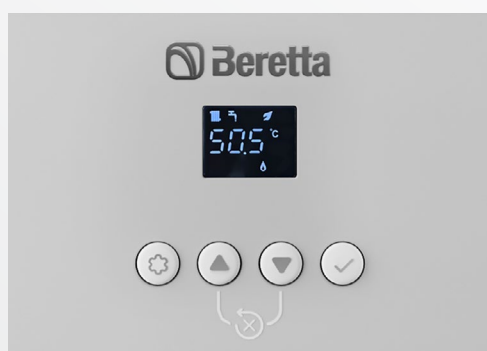
SIMPLE AND USER-FRIENDLY CONTROL PANEL

BLS is characterized by a minimal design, conveyed by its new control panel, with a digital white backlit display. From the 4 pushbuttons of the control panel you can easily adjust heating and DHW temperature, and set all the main functions of the boiler, while the intuitive icons of the display allow immediate understanding of the displayed functions.

COMMUNICATION THROUGH ICONS

	DHW temperature		pump function error		heating circuit
	pre-heating function		fault display active		service menu active
	burner status active		outside temperature status active		connection to remote devices (OT)

To call up the main menu or to return home



To confirm the AC

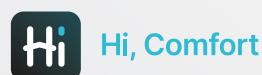
To scroll through the menu or adjust values

To scroll through the menu or adjust values

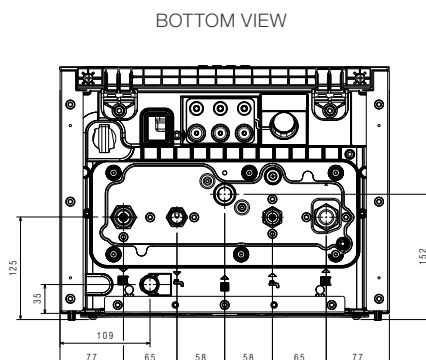
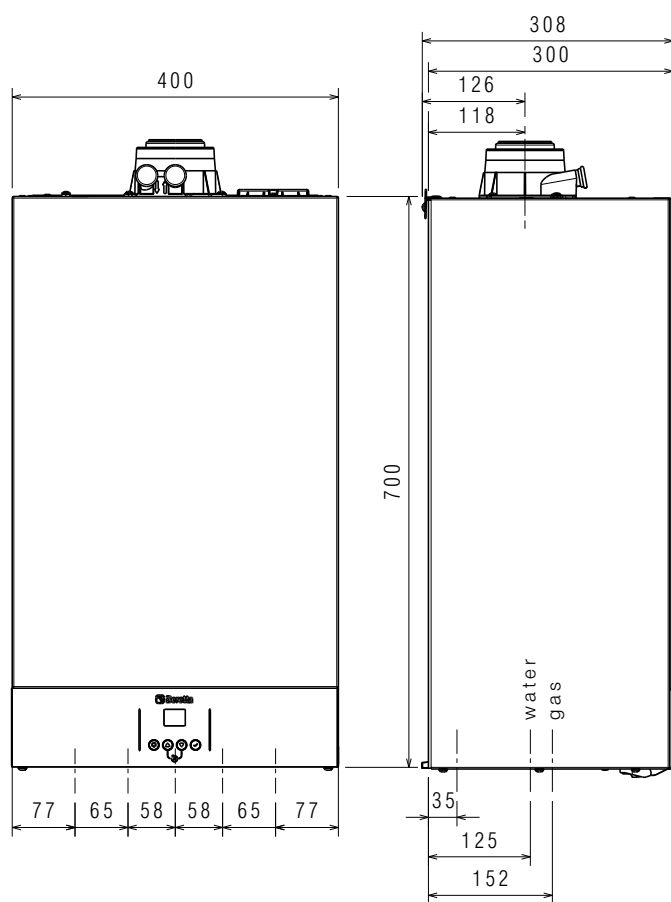
To be pressed together for reset

COMPATIBLE FOR CONNECTION WITH Hi, Comfort T100

BLS can be matched with **Hi, Comfort T100**, available as an accessory, which can work as a traditional thermostat or be used in smart mode via 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.



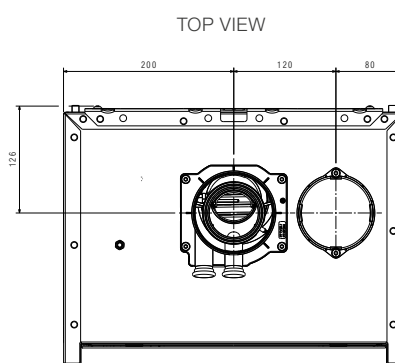
TECHNICAL DRAWINGS



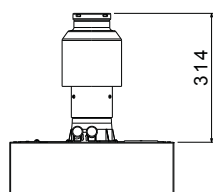
F O G I R

DIN HYDRAULIC CONNECTIONS

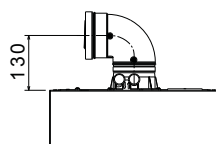
- | | |
|-----------------|---------------------|
| F FLOW | O DHW OUTLET |
| G GAS | I DCW INLET |
| R RETURN | |



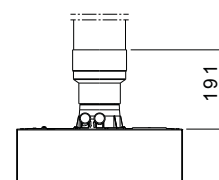
FLUE OPTIONS



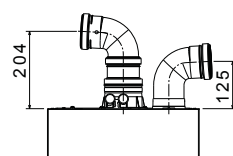
FLUE TYPE
B23P-B53P



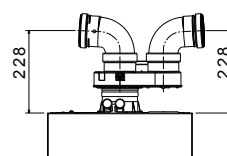
CONCENTRIC FLUE
Ø60-100



VERTICAL CONCENTRIC
FLUE Ø60-100



TWIN FLUE
Ø80-80



TWIN FLUE Ø80-80
WITH ADAPTER

TECHNICAL FEATURES



ENERGY LABELLING SPECIFICATIONS (according to ErP regulations)

BLS

			25 C	28 C
Seasonal space heating energy efficiency class		LONG-ARROW-RIGHT A+++	A	A
Water heating energy efficiency class		LONG-ARROW-RIGHT A+	A	A
Rated heat output	p _{nominal}	kW	19	23
Seasonal space heating energy efficiency	η _s	%	92	92
USEFUL HEAT OUTPUT				
At rated heat output, high-temperature regime (**)	P ₄	kW	19,3	22,8
At 30% of rated heat output and low-temperature regime (***)	P ₁	kW	6,4	7,6
USEFUL EFFICIENCY				
At rated heat output and high-temperature regime (**)	η ₄	%	87,1	87,3
At 30% of rated heat output and low-temperature regime (***)	η ₁	%	93,5	96,7
AUXILIARY ELECTRICITY CONSUMPTION				
At full load	el _{max}	W	17	18
At part load	el _{min}	W	11	12
In Stand-by mode	PSB	W	1,56	2,8
OTHER PARAMETERS				
Stand-by heat losses	P _{stby}	W	56,2	54,7
Annual energy consumption	Q _{HE}	GJ	38	42,7
Sound power level, indoors	L _{WA}	dB	48	51
NOx emissions	NOx	mg/kWh	36,75	45,1
FOR COMBINATION HEATERS				
Declared load profile			XL	XL
Water heating energy efficiency	η _{wh}	%	85	84
Daily electricity consumption	Q _{elec}	kWh	0,218	0,216
Daily fuel consumption	Q _{fuel}	kWh	22,8	23,1
Annual electricity consumption	AEC	kWh	48	47
Annual fuel consumption	AFC	GJ	17	17
OTHER SPECIFICATIONS				
CH Heat INPUT (max-min)		kW	20,0 - 4,7	23,6 - 4,7
DHW heat nominal INPUT (max-min)		kW	25,0 - 4,7	29,1 - 4,7
Power supply voltage		V-Hz	230-50	230-50
Degree of protection		IP	IPX4D	IPX4D
NOx class			6	6
CH				
Max pressure-temperature		bar-°C	3-91	3-91
Pump: max available head (flow rate 1000 l/h)		mbar	246	246
Membrane expansion tank		l	8	8
DHW				
Max pressure		bar	10	10
DHW production at ΔT=25°C/30°C/35°C		l/min	14,3 - 11,9 - 10,2	16,7 - 13,9 - 11,9
DHW minimum flow rate		l/min	2,5	2,5
GAS CONNECTIONS				
Inlet gas pressure (G20)		mbar	20	20
CH Flow - Return / Gas inlet		Ø	3/4"	3/4"
DHW Inlet - Outlet / DHW tank Flow - Return		Ø	1/2"	1/2"
DIMENSIONS, WEIGHT				
Boiler dimensions (HxWxD)		mm	700x400x300	700x400x300
Net weight		kg	31	31
FLUE PIPES AND AIR INTAKE				
Max length for concentric flue (Ø60-100mm)		m	9	9
Max length for twin flue (Ø80+80mm)		m	25+25	25+25

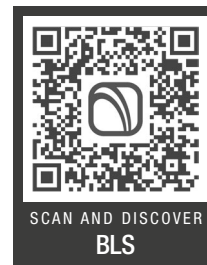
(*) The energy efficiency class of this product family ranges from D up to A+++ in CH and from F up to A+ in DHW.

(**) 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).



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