

**NEW**



A Carrier Company

**WALL-HUNG CONDENSING BOILERS**  
with stainless steel heat exchanger

**BLS**

 **Beretta**  
Il clima di casa.



## 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**

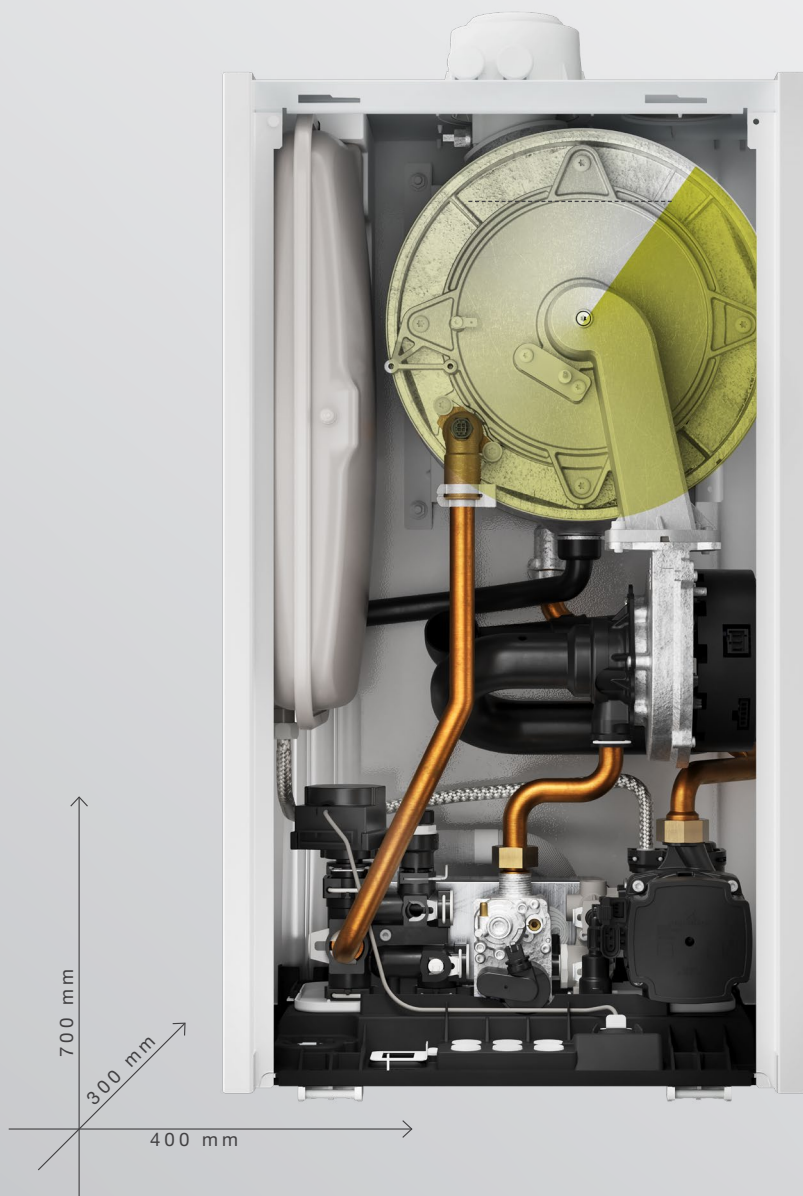


**HYDROGEN  
READY  
20%**

**FOR A  
SUSTAINABLE  
FUTURE**



## 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** ★★ ★
- **8 LITRES EXPANSION VESSEL**
- **LOW ENERGY CIRCULATOR** ( $E_{EEI} \leq 0,20$ ) WITH 6 M HEAD
- **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)

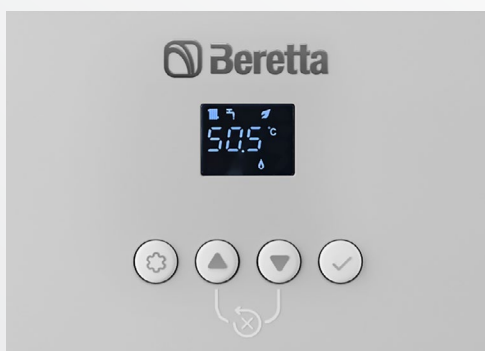
## SIMPLE AND USER-FRIENDLY CONTROL PANEL

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

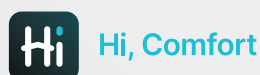
To scroll through the menu or adjust values

To scroll through the menu or adjust values

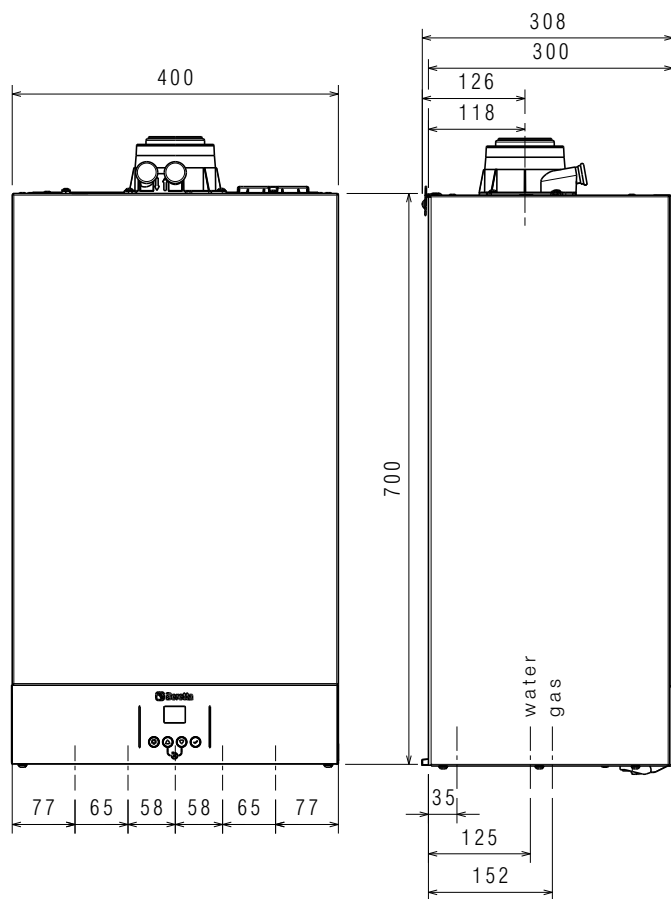
To be pressed together for reset

## COMPATIBLE FOR CONNECTION WITH Hi, Comfort T100

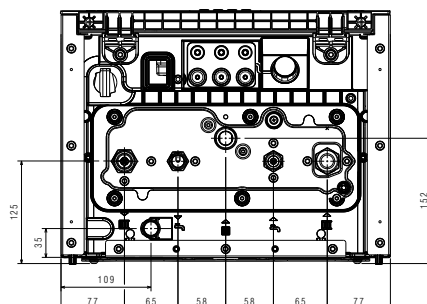
BLS can be matched with **Hi, Comfort T100**, available as an accessory, which can work as a traditional thermostat or be used in smart mode via the **Hi, Comfort App**, when paired with the Hi, Comfort G100-W Wi-Fi Box. The App is available for free on Android and iOS systems and enables users to remotely 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



BOTTOM VIEW

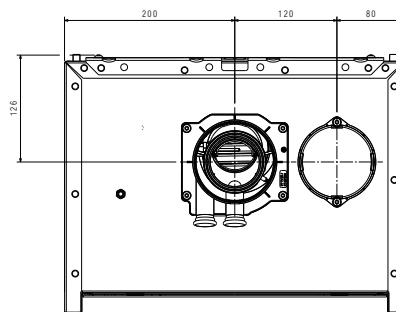


F O G I R

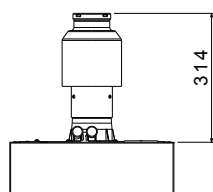
DIN HYDRAULIC CONNECTIONS

- |                 |                     |
|-----------------|---------------------|
| <b>F</b> FLOW   | <b>O</b> DHW OUTLET |
| <b>G</b> GAS    | <b>I</b> DCW INLET  |
| <b>R</b> RETURN |                     |

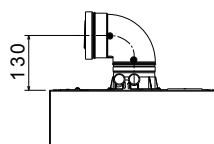
TOP VIEW



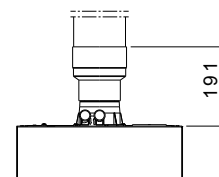
## FLUE OPTIONS



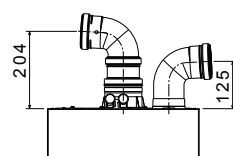
FLUE TYPE  
B23P-B53P



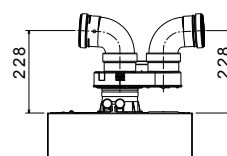
CONCENTRIC FLUE  
Ø60-100



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		D → A+++ (*)	A	A
Water heating energy efficiency class		F → A+ (*)	A	A
Rated heat output	p <sub>nominal</sub>	kW	19	23
Seasonal space heating energy efficiency	η <sub>s</sub>	%	92	92
<b>USEFUL HEAT OUTPUT</b>				
At rated heat output, high-temperature regime (**)	P <sub>4</sub>	kW	19,3	22,8
At 30% of rated heat output and low-temperature regime (***)	P <sub>1</sub>	kW	6,4	7,6
<b>USEFUL EFFICIENCY</b>				
At rated heat output and high-temperature regime (**)	η <sub>4</sub>	%	87,1	87,3
At 30% of rated heat output and low-temperature regime (***)	η <sub>1</sub>	%	93,5	96,7
<b>AUXILIARY ELECTRICITY CONSUMPTION</b>				
At full load	el <sub>max</sub>	W	17	18
At part load	el <sub>min</sub>	W	11	12
In Stand-by mode	PSB	W	1,56	2,8
<b>OTHER PARAMETERS</b>				
Stand-by heat losses	P <sub>stby</sub>	W	56,2	54,7
Annual energy consumption	Q <sub>HE</sub>	GJ	38	42,7
Sound power level, indoors	L <sub>WA</sub>	dB	48	51
NOx emissions	NOx	mg/kWh	36,75	45,1
<b>FOR COMBINATION HEATERS</b>				
Declared load profile			XL	XL
Water heating energy efficiency	η <sub>wh</sub>	%	85	84
Daily electricity consumption	Q <sub>elec</sub>	kWh	0,218	0,216
Daily fuel consumption	Q <sub>fuel</sub>	kWh	22,8	23,1
Annual electricity consumption	AEC	kWh	48	47
Annual fuel consumption	AFC	GJ	17	17
<b>OTHER SPECIFICATIONS</b>				
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
<b>CH</b>				
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
<b>DHW</b>				
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
<b>GAS CONNECTIONS</b>				
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"
<b>DIMENSIONS, WEIGHT</b>				
Boiler dimensions (HxWxD)		mm	700x400x300	700x400x300
Net weight		kg	31	31
<b>FLUE PIPES AND AIR INTAKE</b>				
Max length for concentric flue (Ø60-100mm)		m	9	9
Max length for twin flue (Ø80+80mm)		m	25+25	25+25

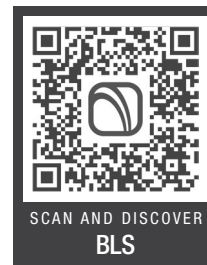
(\*) The energy efficiency class of this product family ranges from D up to A+++ in CH and from F up to A+ in DHW.

(\*\*) 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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