



# Ciao S

Standard-Efficiency Wall-Hung Boilers

Residential Heating

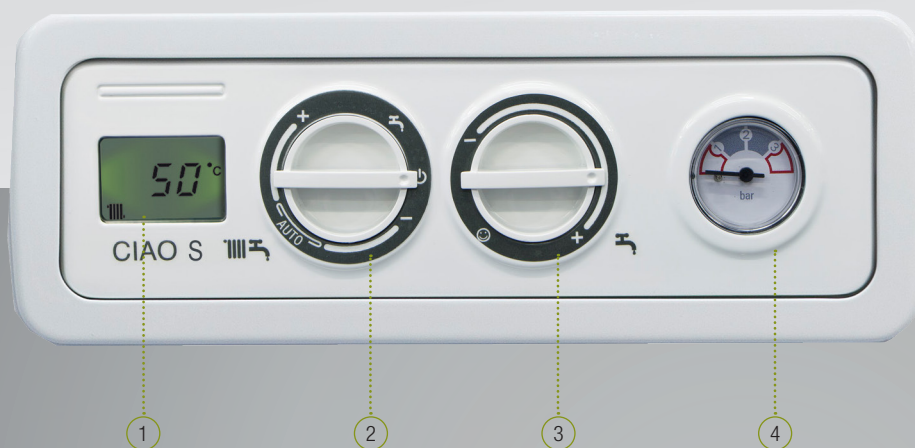


# Ciao S



- The new CIAO S, available in room-sealed version with 20kW and 24kW outputs, is characterized by reliability and robustness.
- Primary heat exchanger in copper.
- DHW plate heat exchanger in stainless steel.
- Efficiency ★★★ according to European Directive EEC 92/42.
- Double air inlet (right and left side) allowing to fit easily in the existing flues.
- 8 litres expansion vessel (7 litres on the 20kW model).
- Suitable for connection with Beretta remote control panels (optional).
- 3-speed circulator 5 metres (single-speed 4 metres on the 20 kW model).
- “Survivor” function in DHW mode, allowing the boiler, in the event of failure of the DHW NTC probe, to continue to operate.
- Intuitive and easy-to-use control panel with backlight digital display.
- Built-in climatic thermoregulation that can be activated through the external probe (as option) for a high comfort level inside the house.
- S.A.R.A. system: automatic temperature control in heating mode.
- IPX5D electrical protection.
- Frost protection down to -10 °C by using the specific kit available as option.
- Upper and lower covers available as option.
- Fast and easy installation (template and accessories for the installation supplied as standard).
- Hydraulic connections, gas and DHW taps available as option.
- Extremely compact dimensions and low weight allow CIAO S to be installed anywhere.

## Simple and easy-to-use



The new CIAO S, thanks to the simple design, blends easily into any setting.

The intuitive digital display provides the end-user immediately with all information about the boiler status.

Two user-friendly selectors allow to easily control all the boiler functions.

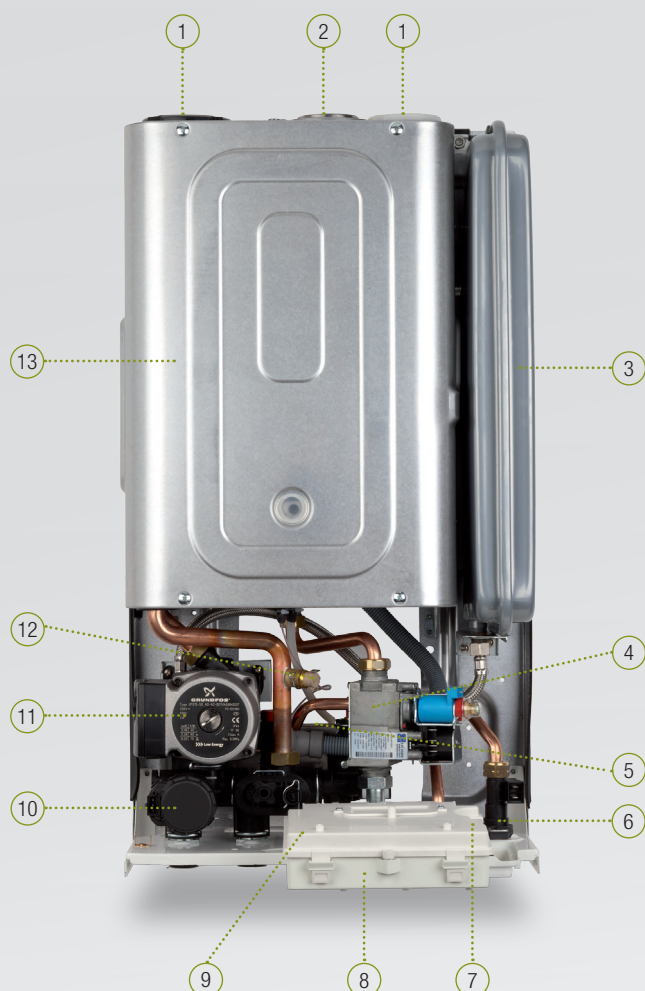
① Backlight digital display

② On/Off/Summer/Winter/Reset/Heating temperature/“S.A.R.A. function” selector

③ Domestic hot water temperature/Pre-heating activation selector

④ Hydrometer

## A range designed to provide high performance



The new CIAO S is equipped with two heat exchangers: primary heat exchanger in copper and DHW plate heat exchanger, ensuring high DHW comfort.

- |   |  |
|---|--|
| ① Double air inlet for twin system                    | ⑧ Electronic board   |
| ② Flue gas analysis                                   | ⑨ IPX5D electrical protection                              |
| ③ Expansion vessel                                    | ⑩ 3-way valve  |
| ④ Gas valve   | ⑪ Circulation pump with anti-blocking function             |
| ⑤ DHW heat-exchanger                                  | ⑫ Water pressure switch                                    |
| ⑥ Flow switch   | ⑬ Combustion chamber (burner, primary heat-exchanger, fan) |
| ⑦ Climatic thermoregulation (outdoor probe as option) |  |

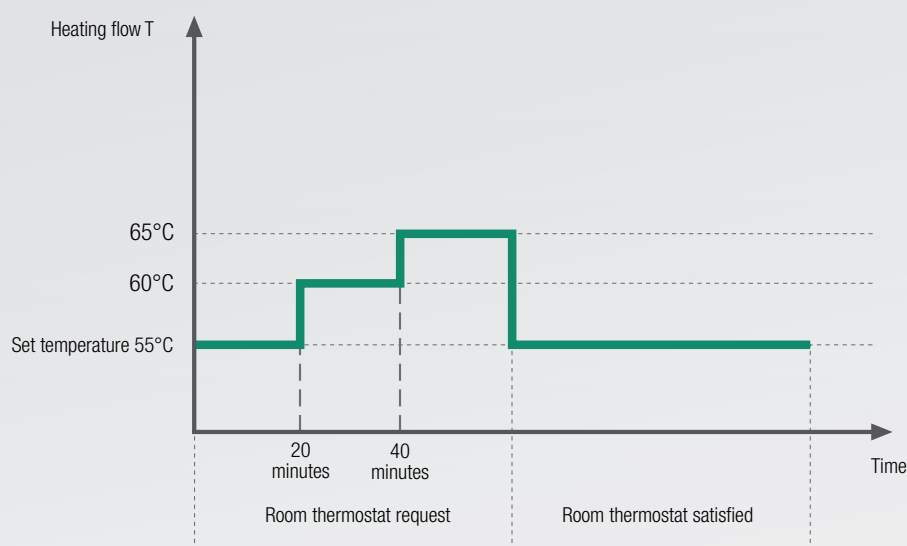
## S.A.R.A. system: comfort and saving

All the models in the CIAO S range are equipped with the Beretta patented S.A.R.A. system (Automatic Temperature Control), which can be enabled by moving the temperature control knob of the central heating circuit to the "AUTO" sector (between 55°C and 65°C). The S.A.R.A.

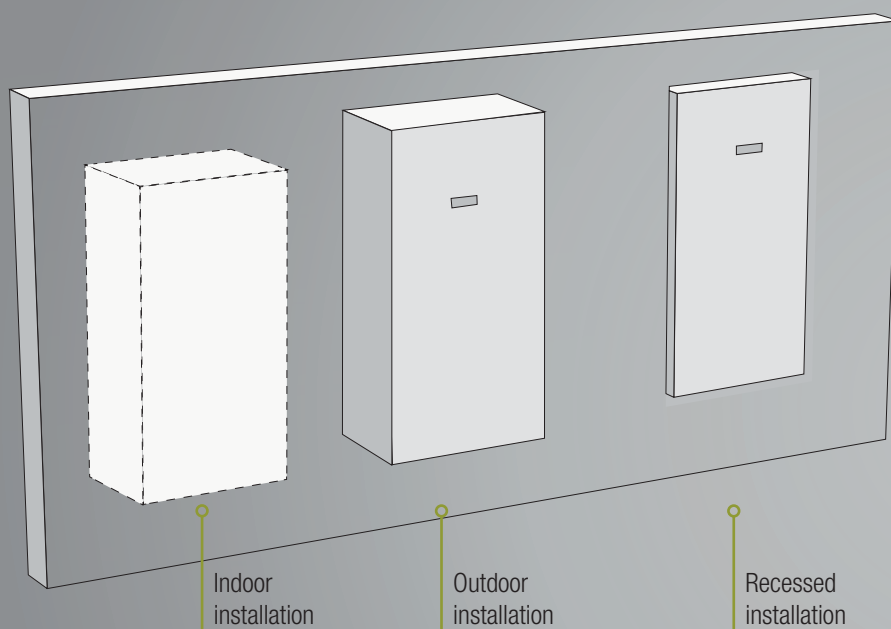
system achieves the best compromise between the average temperature of the radiators and the quickness in reaching the required room temperature, while providing energy and money saving.

When there is a demand for heating, the appliance will automatically raise the heating

flow temperature twice by 5°C every 20 minutes, in order to heat the home more quickly. When the heating request has been satisfied (see diagram), the appliance will switch off automatically till the next heating request. At that point the boiler will start again at the previously set flow temperature.



## A room-sealed boiler for versatile installation



CIAO S has been specifically designed to be installed also outdoor in partially protected or recessed places, thanks to the specific accessories and the frost protection kit down to -10°C (available as option).

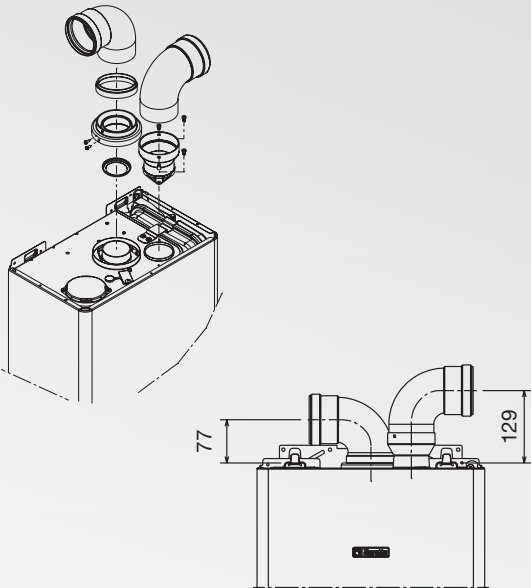
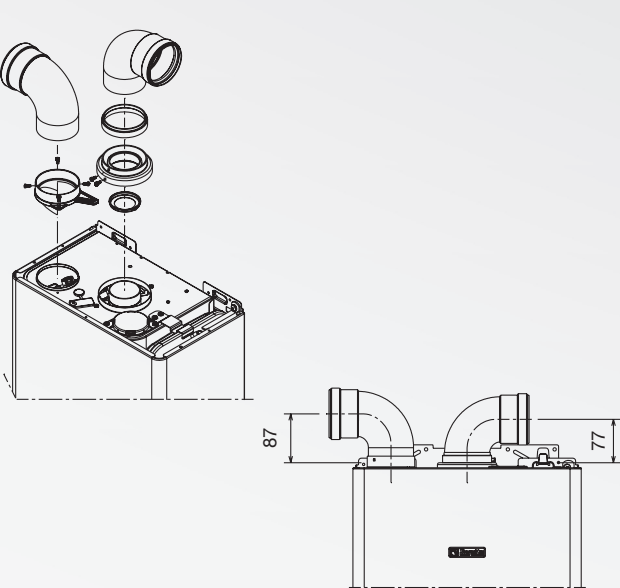
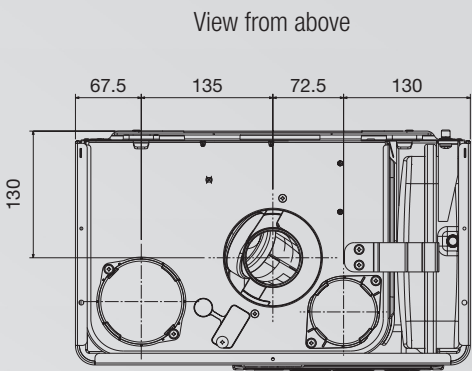
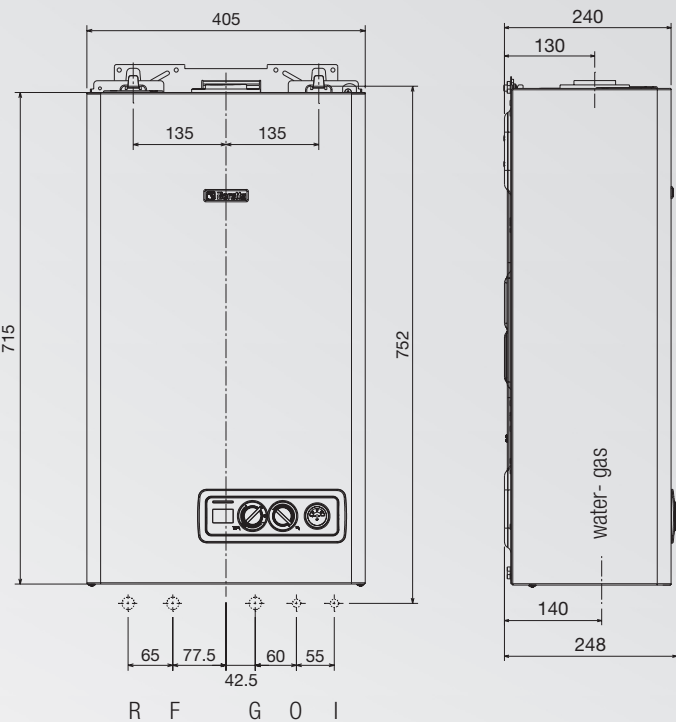
Upper and lower covers are also available as option for a higher protection of the appliance and an elegant installation.

The new CIAO S range comes with the high electric protection IPX5D.

Technical drawings

CIAO S 20 - 24 CSI  
CIAO S 24 RSI

KEY:  
System: Return R/ Flow F/ Gas G  
Domestic water: Inlet I/ Outlet O



## Technical data

**C** Combi model (CH + DHW);  
**R** Heating Only model;

**S** Room-sealed;  
**I** Ionisation flame control.

### SPECIFICATIONS AND MODELS

		CIAO S 20 C.S.I.	CIAO S 24 C.S.I.	CIAO S 24 R.S.I.
CH nominal heat input	kW	22,20	25,80	25,80
CH maximum heat output (80°-60° C)	kW	20,60	23,94	23,94
CH minimum heat input	kW	7,00	8,90	8,90
CH minimum heat output (80°-60° C)	kW	5,88	7,52	7,52
DHW heat input	kW	22,20	25,80	-
DHW maximum heat output*	kW	20,60	23,94	-
DHW minimum heat input	kW	7,00	8,90	-
DHW minimum heat output*	kW	5,88	7,52	-
Efficiency nominal output (Pn max - Pn min)	%	92,8 - 84,0	92,8 - 84,5	92,8 - 84,5
Efficiency at partial load 30% (47°C return)	%	91,9	91,8	91,8
Max power consumption	W	100	115	115
Power supply	V/Hz	230/50	230/50	230/50
Electrical protection	IP	X5D	X5D	X5D
<b>CENTRAL HEATING</b>				
Maximum pressure - temperature	bar - °C	3 - 90	3 - 90	3 - 90
Minimum pressure for standard operation	bar	0,25÷0,45	0,25÷0,45	0,25÷0,45
Adjustable CH water temperature range	°C	40÷80	40÷80	40÷80
CH expansion vessel pre-charge/Capacity	bar/l	1/7	1/8	1/8
<b>DHW</b>				
Maximum - minimum pressure	bar	6 - 0,15	6 - 0,15	-
DHW production $\Delta T=25^{\circ}\text{C}$	l/min	11,8	13,7	-
Hot water minimum flow rate	l/min	2	2	-
Adjustable hot water temperature range	°C	37÷60	37÷60	-
<b>CONNECTIONS</b>				
CH flow - return/Gas	Ø	3/4"	3/4"	3/4"
DHW inlet - outlet	Ø	1/2"	1/2"	-
<b>CONCENTRIC PIPES</b>				
Diameter	mm	60 - 100	60 - 100	60 - 100
Maximum length	m	4,25	4,25	4,25
<b>TWIN PIPES</b>				
Diameter	mm	80+80	80+80	80+80
Maximum length	m	10+10	16+16	16+16
<b>DIMENSIONS, WEIGHT, GAS</b>				
Boiler dimensions (HxWxD)	mm	715x405x248	715x405x248	715x405x248
Net weight	kg	29	31	28
Available gas versions		NG, LPG**	NG, LPG	NG, LPG**

\* average among the different functioning conditions in DHW

\*\* LPG version available with separate kit (option)

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