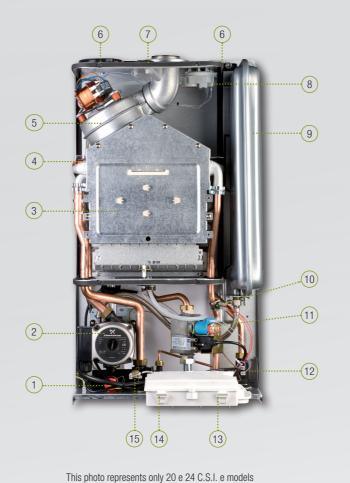


- The new CIAO, extremely compact in dimensions and low lift weight, characterized by a linear design, enables a flexible installation almost anywhere in the • "Survivor" function in DHW mode: allowing home, even in small spaces.
- The wide CIAO range is available both as outputs, and as conventional flue version with 24 and 28 kW outputs, to meet the different comfort needs.
- Beretta patented bi-thermic heat exchanger in copper
- Efficiency ★★★ according to European Directive EEC 92/42 (C.S.I. models).
- Intuitive and easy-to-use control panel with digital display.
- 3-speed circulator with 5 metres head (on 28 kW model) and single-speed with 4 metres head (on the 20-24 kW models).
- S.A.R.A. system: automatic temperature control in heating mode.
- Built-in climatic thermoregulation that

can be activated through the external probe (as option) for a high comfort level inside the

- the boiler, in the event of failure of the DHW NTC probe, to continue to operate.
- kW model).
- IPX5D electrical protection.
- Frost protection down to -10 °C by using the specific kit available as option.
- Double air inlet allowing to fit easily in the existing flues.
- Upper and lower covers available as option (for 20-24 C.S.I. models).
- Fast and easy installation thanks to template and accessories supplied as standard.
- Hydraulic connections, gas and DHW taps available as option.
- Suitable for connection with Beretta remote control panels (optional).

High comfort level from compact dimensions

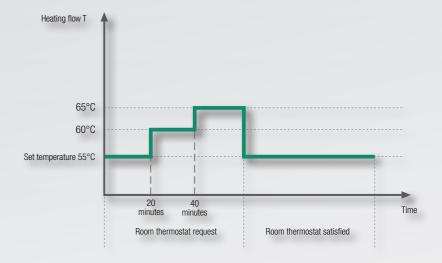


- 1 Safety valve
- (2) Circulation pump with anti-blocking function
- (3) Combustion chamber with bi-thermic heat exchanger
- 4) Central heating NTC probe
- 5 Fan
- (6) Double air inlet for twin system
- (7) Flue gas analysis
- (8) Flues evacuation pressure switch
- 9 Expansion vessel
- 10) DHW NTC probe
- (11) Gas valve
- (12) Flow switch
- (13) Climatic thermoregulation (optional external probe)
- (14) Electronic board
- 15 Water pressure switch

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

All the models in the CIAO range are equip- compromise between the average temperature in order to heat the home more quickly. When be enabled by moving the temperature con- energy and money saving. dedicated "AUTO" sector (between 55°C and pliance will automatically raise the heating flow temperature. 65°C). The S.A.R.A system achieves the best temperature twice by 5°C every 20 minutes,

ped with the Beretta patented S.A.R.A. system of the radiators and the quickness in reaching the heating request has been satisfied (see dia-(Automatic Temperature Control), which can the required room temperature, while providing gram), the appliance will swich off automatically till the next heating request. At that point the trol knob of the central heating circuit to the When there is a demand for heating, the ap- boiler will start again at the previously set flow





User-friendly approach

The new CIAO, thanks to the essential design, blends easily into any setting. The intuitive backlight 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
- (3) Domestic hot water temperature selector
- 2 On/Off/Summer/Winter/Reset/ Heating temperature/ "S.A.R.A. function" selector
- (4) Hydrometer

CONCENTRIC DOUBLE PIPE SECTION primary circuit water Bi-thermic heat exchanger CIAO range features the Beretta patented domestic circuit water bi-thermic heat exchanger, for the production both of domestic hot water and central heating. The Beretta bi-thermic heat exchanger

is entirely made in copper, with a special water, flowing in the internal concentric pipe The turbolator, inside each concentric DHW pipe, environmentally-friendly paint coating to increase the longevity of the component. It consists of 4 concentric double pipes and thanks to the high thermic exchange property reducing the losses on DHW side. a number of 'wings' which depends on the power of the heat exchanger. The domestic

(see pipe section), is warmed by the primary increases the speed of the flowing water and circuit water flowing through the external pipe, widens the thermal exchange surface, while



A wide range of models to meet any installation requirements

different comfort needs.

28 kW outputs, and as conventional flue mod- vated through the external probe (available as from a remote location. els with 24 and 28 kW outputs, to meet the option), for a higher comfort inside the home, and it is suitable for the connection with Beretta

The **new CIAO** range is available in 5 combi CIAO boasts some important features such as remote control panels (as option), to manage all versions both as room-sealed with 20, 24 and the climatic thermoregulation, that can be actiCiao Standard Efficiency Wall-Hung Boilers Residential heating

Technical data

S Room-sealed;

Electronic ignition, Ionisation flame control;

kW

kW

kW

kW

kW

kW

kW

kW

%

%

W

V/Hz

IP

bar - °C

bar

°C

bar/l

I/min

I/min

°C

mm

mm

m

mm

m

mm

kg

m

20 C.S.I. e

22,20

20,60

7,00

5,88

22,20

20,60

7,00

5.88

92,8 - 84,0

91.9

115

230/50

X5D

3 - 90

0,25 - 0,45

40/80

1/7

6 /0,15

11,8 / 9,8 / 8,4

37/60

1/2"

3/4"

60 - 100

4,25

80-125

12,4

80

10+10

715x405x250

NG/LPG**

CIAO

24 C.S.I. e

25,80

23,94

8,90

7,52

25,80

23,94

8,90

7.52

92,8 - 84,5

91,8

100

230/50

X5D

3 - 90

0,25 - 0,45

40/80

1/8

6 /0,15

13,7 / 11,4 / 9,8

37/60

1/2"

3/4"

60 - 100

4,25

80-125

12,4

80

16+16

715x405x250

28

NG/LPG

CIAO

28 C.S.I. e

30,20

28,24

12,70

10,95

30,20

28,24

10,50

9,05

93,5 - 86,2

92,8

125

230/50

X5D

3 - 90

0,25 - 0,45

40/80

1/8

6 /0,15

16,2 / 13,5 / 11,6

37/60

1/2"

3/4"

60 - 100

80-125

80

14+14

740x450x332

34

NG/LPG

CIAO

24 C.A.I. e

26,70

23,92

10,40

8,88

26,70

23,92

10.40

8.88

89,6 - 85,4

89

85

230/50

X5D

3 - 90

0,25 - 0,45

40/80

1/8

6 /0,15

37/60

1/2"

3/4"

740x400x332

NG/LPG**

13,7 / 11,4 / 9,8 | 16,3 / 13,6 / 11,7

CIAO

28 C.A.I. e

31,90

28,49

10,70

8,92

31,90

28,49

10,70

8.92

89,3 - 83,4

88.7

85

230/50

X5D

3-90

0,25 - 0,45

40/80

1/8

6 /0,15

37/60

1/2"

3/4"

740x450x332

32

NG/LPG

C Combi model (CH + DHW);

SPECIFICATIONS AND MODELS

CH maximum heat output (80°-60° C)

CH minimum heat output (80°-60° C)

Efficiency nominal output (Pn max - Pn min)

Efficiency at partial load 30% (47°C return)

A Conventional flue:

CH nominal heat input

CH minimum heat input

DHW maximum heat output'

DHW minimum heat output*

DHW minimum heat input

Max power consumption

Maximum pressure - temperature

Maximum - minimum pressure

Hot water minimum flow rate

CONNECTIONS CH flow - return/Gas DHW inlet - outlet

CONCENTRIC PIPES Diameter

Maximum length

Maximum length

Maximum length

DIMENSIONS, WEIGTH, GAS

Boiler dimensions (HxWxD)

Beretta International Markets

Available gas versions

TWIN PIPES Diameter

Net weight

Diameter

CONCENTRIC PIPES

Minimum pressure for standard operation

CH expansion vessel pre-charge/Capacity

DHW production $\Delta T=25^{\circ}C$ / $\Delta T=30^{\circ}C$ / $\Delta T=35^{\circ}C$

Adjustable CH water temperature range

Adjustable hot water temperature range

Power supply

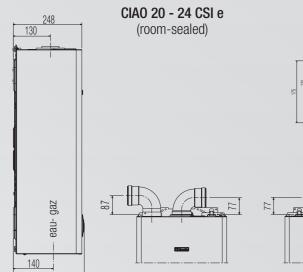
Electrical protection

CENTRAL HEATING

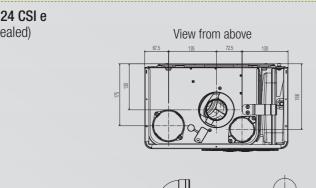
DHW heat input

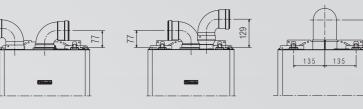
Technical drawings

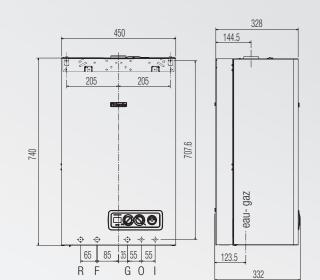
135 135

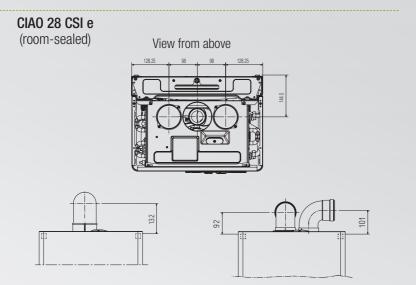


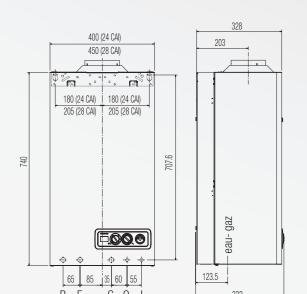
System: Flow F/ Gas G/ Return R Domestic water: Inlet I / Outlet 0











CIAO 24 - 28 CAI e

For all flueing configurations please refer to the current local and national rules.

(conventional flue) View from above

Trading address: Via Risorgimento 23/A - 23900 LECCO - ITALY Tel. +39-0341-277111 - fax +39-0341-277263 info@berettaboilers.com www.berettaboilers.com

* average among the different functioning conditions in DHW

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

In order to improve its product, Beretta reserves the right to modify the characteristics and information shown in this manual at any time and without advance warning. This brochure, therefore, cannot be considered as contractually binding on third parties.







Ciao

Standard Efficiency Wall-Hung Boilers

Residential Heating

Beretta

