

WALL-HUNG CONDENSING BOILERS
with stainless steel heat exchanger

CIAO X



**NEW DIGITAL
TOUCHPAD
INTERFACE**



**HIGH
EFFICIENCY**



**QUICK AND
STABLE
HOT WATER**



**STAINLESS STEEL
HEAT EXCHANGER**



**COMPACT
DESIGN**



**LOW NOISE
OPERATION**

CIAO X, THE COMFORT YOU DESERVE.

CIAO, ONE OF THE BEST-SELLING WALL-HUNG BOILERS IN THE BERETTA PORTFOLIO EVER, HAS NOW BEEN COMPLETELY REDESIGNED, RESULTING IN A NEW CONDENSING RANGE WITH MANY INNOVATIVE FEATURES AND ADVANTAGES: CIAO X

The new Beretta range retains the distinguishing features of its predecessor in terms of **reliability and user-friendliness**, while adding many important and innovative ones: from the new **primary heat-exchanger in stainless steel**, to the **new touchpad interface** up to the **hydraulic DIN connections**.

With CIAO X Beretta enhances the research of **higher comfort and innovation** in the respect of the environment, which has always represented one of the assets of the brand, since its origins. This **renewed energy consciousness** translates into high efficiency, low consumption and a high modulation ratio (1:8), that combined with the flexibility of installation, compact size and low weight, allow to place CIAO X at the top of its category.

But what's more, CIAO X thinks ahead for future generations. The new range **can already process a mixture of hydrogen up to 20%**, the sustainable energy source that will be the real ecological turning point in the coming years.

THE RANGE

CIAO X comes in a complete range of 5 models, to satisfy all heating requirements:

- **CIAO X 25 C** (combi models, with dedicated codes for natural gas and LPG)
- **CIAO X 30 C** (combi model)
- **CIAO X 15 R** (heating only model)
- **CIAO X 25 R** (heating only model)

The compact size and low weight of CIAO X, allow it to be installed anywhere in the house, even in a kitchen cupboard. The product is also suitable for recessed installation in a box or for outdoor installation in partially protected places.

CONTROL YOUR COMFORT BY A TOUCH

One of the main distinguishing characteristics of the new CIAO X is the **digital touchpad interface**, combining **innovative design and features** with **user-friendliness**. By a simple touch on 7 points of the panel, it is possible to access in an intuitive way all the settings and parameters of the boiler and the system.

Each touch activates a **buzzer**, that generates an acoustic feedback as a confirmation of the operation.

The **LCD display** communicates with the user and installer through **icons, without using texts**, so as to allow an immediate understanding of the displayed function.

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

Domestic Hot Water temperature setpoint regulation +/-



Central Heating temperature setpoint regulation +/-

Boiler operation status (OFF/SUMMER/WINTER)

RESET of any alarm status/
Vent cycle interruption

INFO/
ENTER/
Parameters MENU



EVERYWHERE CIAO X

CIAO X features a **modern and linear design**, which blends easily into any setting.

The **compact dimensions and low weight** allow the product to be easily installed anywhere, not only inside the house, but also recessed in box or outdoors, in a partially protected space. CIAO X is therefore also ideal for the replacement of old boilers, both with DIN or with

Beretta connection sequence, thanks to the availability of accessory kits that simplify the conversion.

A wide range of accessories complete the offer of CIAO X: **flue kit**, **compact water filters** (softener and magnetic) and **hydraulic connections cover**, making installation easier and harmonising integration in both indoor and outdoor environments.



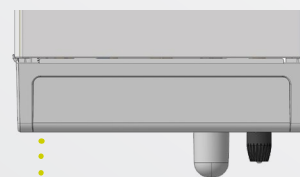
**UNIVERSAL
INSTALLATION**



**EASE OF
REPLACEMENT**



**EASE OF
INTEGRATION**



Hydraulic
connections cover

TECHNOLOGY AND ENERGY-SAVING HAND-IN-HAND

NEW CONDENSING HEAT EXCHANGER

CIAO X features a high efficiency **condensing heat exchanger in stainless steel**, compact and robust. It is made of a **coiled smooth tube with a large section, ensuring optimized efficiency of the combustion and cleanness over time**. The stainless-steel quality provides **high resistance to corrosion**, deriving from acid condensate. The large section of the tube and its geometry as a unique coil ensure a constant flow and prevent intrinsically from clogging. The **frontal access to heat exchanger** enables ease of maintenance and cleaning of the combustion chamber.

NEW FUNCTIONS FOR A HIGHER DHW COMFORT

In the combi models, the high-performance plate heat exchanger, developed by Beretta, connected to the primary circuit of the hot water, allows to warm up the DHW in an instantaneous way, without the need of any external tank.

The **new optimized heat-exchanger** has been conceived to obtain the **best performance and maximum comfort for the end-user in terms of temperature stability and reduced waiting times**. These pluses, which place the product at the top of its category, translate finally into **respect for the environment, saving water and energy**.

› PRE-HEATING AND ITS EVOLUTION INTO SMART PRE-HEATING

have been conceived in order to further save water and gas consumption. They allow, in fact, to keep warm the water inside the new high efficiency plate heat exchanger, produced in our plants, to reduce waiting time.

› **TOUCH & GO** allows to activate an instantaneous pre-heating, only for one specific request.

› Other special functions like **DHW DELAY, NO-OSCILLATION PERFORMANCE, SMART FAN** allow to upgrade the boiler performance in particularly difficult operation conditions like e.g. very low or very high inlet water temperature or very low water flow.

LOW NOISE OPERATION

This feature makes CIAO X ideal for installation indoor, even for replacement in a kitchen.



**STAINLESS STEEL
HEAT EXCHANGER**



**FRONTAL ACCESS
TO COMPONENTS**



DURABILITY



ENERGY-SAVING



**QUICK AND STABLE
HOT WATER**

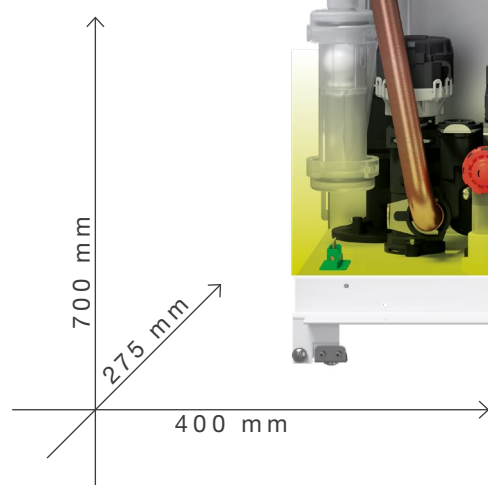


**REDUCED
WAITING TIMES**



**LOW NOISE
OPERATION**

➤ **NEW CONDENSING
HEAT EXCHANGER
IN STAINLESS
STEEL WITH
FRONTAL ACCESS**



➤ **NEW HYDRAULIC
GROUP WITH DIN
CONNECTIONS**

➤ **HIGH MODULATION RANGE:**
8:1 PREMIX MODULATION RATIO

➤ **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
REQUESTS OF THE INSTALLATION

➤ **IPX5D** ELECTRICAL PROTECTION

➤ **NEW FLUE FLANGE** FEATURING FAST AND
SAFE **QUICK-FASTENING CONNECTION** AND
INTEGRATED FLUES **ANALYSIS INLET**

➤ **LOW ENERGY CIRCULATOR** ($EEI \leq 0,20$): 6 M
RESIDUAL HEAD

➤ **HYDRAULIC CONNECTIONS COVER** AND A
WIDE RANGE OF ACCESSORIES AVAILABLE AS
OPTIONAL

➤ **COMPATIBLE WITH THE SOLUTIONS OF THE
NEW BERETTA HI,COMFORT PLATFORM**
INTEGRATING SMART THERMOSTATS, APP AND
BOILERS OF NEW GENERATION

BERETTA IS LOOKING TOWARDS THE FUTURE

CIAO 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 USE CYCLE

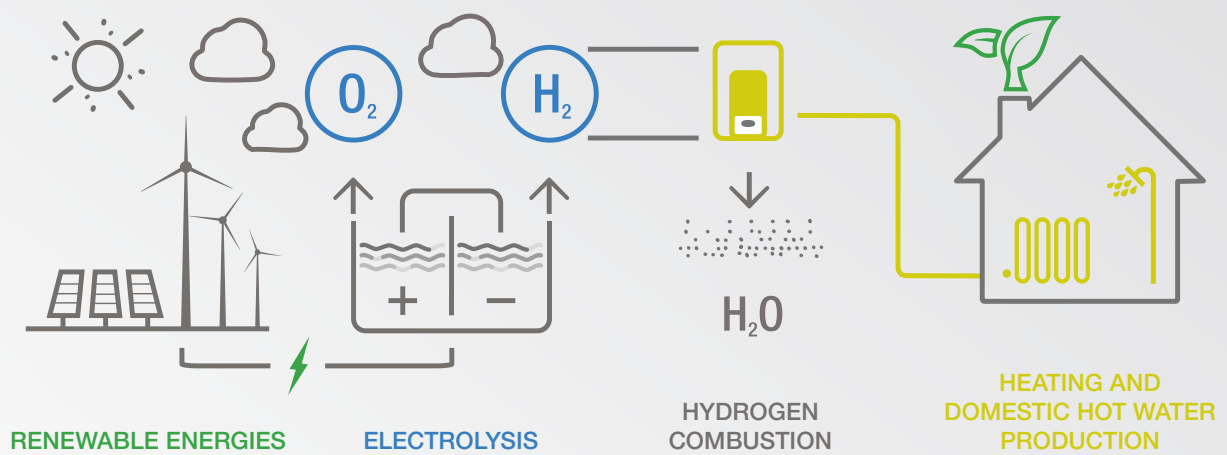
Hydrogen is a safe and clean gas that, blended with natural gas up to a maximum ratio of 20 to 80 percent, makes it possible to generate heat and domestic hot water, with lower CO₂ emissions than other fuels*.

* Data from E. A. Polman (2003) "Reduction of CO₂ emissions by adding hydrogen to natural gas", IEA Greenhouse Gas R&D program, report number PH4/24.

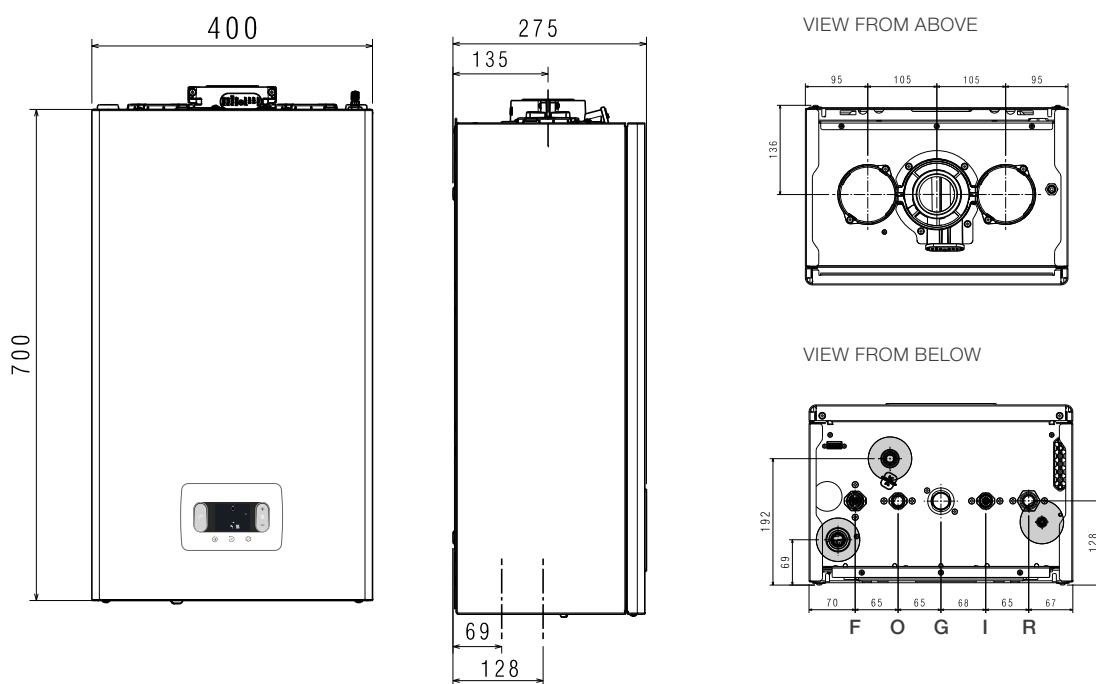
| GAS | HIGH CALORIFIC POWER | RELATIVE CO ₂ EMISSIONS |
|---------------------------------|----------------------|------------------------------------|
| H ₂ - content [vol%] | Relative Wobbe [%] | [%] |
| 0 | 100 | 100 |
| 20 | 94,7 | 93,7 |
| 100 | 85,0 | 13,3 |

Variation of Wobbe index and CO₂ reduction as a function of hydrogen content. The hydrogen is presumed to be made by large-scale steam reforming and that CO₂ is captured with a recovery rate of 86,7% of CO₂.





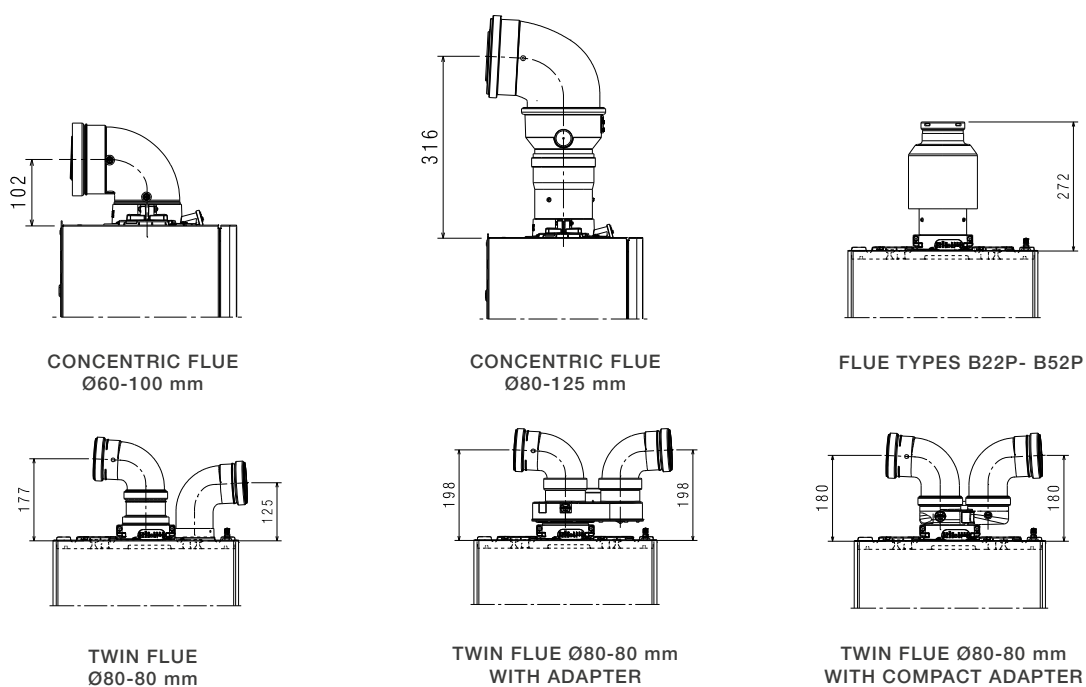
TECHNICAL DRAWINGS



DIN HYDRAULIC CONNECTIONS


FLUE OPTIONS

- › FLANGE INSTALLED AS STANDARD
- › QUICK INSTALLATION WITHOUT THE NEED FOR AN EXTERNAL COLLAR
- › BOILER DEPARTURE WITH BERETTA SPECIFIC FLUE OPTIONS



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

TECHNICAL DATA

|  ENERGY LABELLING SPECIFICATIONS (according to ErP regulations) | | UOM | CIAO X 25 C | CIAO X 30 C | CIAO X 15 R ^(*) | CIAO X 25 R ^(*) |
|---|----------|-------------------------|----------------------|----------------------|-------------------------------|-------------------------------|
| Boiler order code (supply NG) | | | 20187761 | 20187765 | 20187766 | 20187767 |
| Boiler order code (supply LPG) | | | 20187764 | / | / | / |
| Seasonal space heating energy efficiency class | | D → A+++ ⁽¹⁾ | A | A | A | A |
| Water heating energy efficiency class | | F → A+ ⁽²⁾ | A | A | - | - |
| Rated heat output | pnominal | kW | 19 | 24 | 15 | 19 |
| Seasonal space heating energy efficiency | ηs | % | 93 | 93 | 93 | 93 |
| USEFUL HEAT OUTPUT | | | | | | |
| At rated heat output, high-temperature regime ^(**) | P4 | kW | 19,4 | 24,4 | 14,5 | 19,4 |
| At 30% of rated heat output and low-temperature regime ^(***) | P1 | kW | 6,5 | 8,2 | 4,9 | 6,5 |
| USEFUL EFFICIENCY | | | | | | |
| At rated heat output and high-temperature regime ^(**) | η4 | % | 87,3 | 87,6 | 87,1 | 87,3 |
| At 30% of rated heat output and low-temperature regime ^(***) | η1 | % | 98,5 | 98,2 | 98,7 | 98,5 |
| AUXILIARY ELECTRICITY CONSUMPTION | | | | | | |
| At full load | elmax | W | 32 | 38 | 32 | 32 |
| At part load | elmin | W | 12 | 12 | 12 | 12 |
| In Stand-by mode | PSB | W | 3 | 3 | 3 | 3 |
| OTHER PARAMETERS | | | | | | |
| Stand-by heat losses | Pstby | W | 30 | 30 | 30 | 30 |
| Annual energy consumption | QHE | GJ | 42 | 56 | 42 | 42 |
| Sound power level, indoors | LWA | dB | 50 | 53 | 50 | 50 |
| NOx emissions | NOx | mg/kWh | 22 | 22 | 22 | 22 |
| FOR COMBINATION HEATERS | | | | | | |
| Declared load profile | | | XL | XL | - | - |
| DHW energy efficiency | ηwh | % | 84 | 84 | - | - |
| Daily electricity consumption | Qelec | kWh | 0,133 | 0,152 | - | - |
| Daily fuel consumption | Qfuel | kWh | 23,183 | 23,306 | - | - |
| Annual electricity consumption | AEC | kWh | 29 | 33 | - | - |
| Annual fuel consumption | AFC | GJ | 18 | 18 | - | - |
| OTHER SPECIFICATIONS | | | | | | |
| CH heat INPUT (max-min) | | kW | 20,0 - 3,1 | 25,0 - 3,95 | 20,0 - 3,1 | 20,0 - 3,1 |
| DHW heat nominal INPUT (max-min) | | kW | 25,0 - 3,1 | 30,0 - 3,95 | 25,0 - 3,1 | 25,0 - 3,1 |
| Power supply voltage | | V-Hz | 230 - 50 | 230 - 50 | 230 - 50 | 230 - 50 |
| Degree of protection | | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| NOx class | | | 6 | 6 | 6 | 6 |
| CH | | | | | | |
| Max pressure-temperature | | bar-°C | 3-90 | 3-90 | 3-90 | 3-90 |
| Pump: max available head (flow rate 1000 l/h) | | mbar | 408 | 408 | 408 | 408 |
| Membrane expansion tank | | l | 8 | 8 | 8 | 8 |
| DHW | | | | | | |
| Max pressure | | bar | 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 | - | - |
| DHW minimum flow rate | | l/min | 2 | 2 | - | - |
| HYDRAULIC AND GAS CONNECTIONS | | | | | | |
| Inlet gas pressure (G20-G31) | | mbar | 20-37 | 20-37 | 20 -37 | 20 -37 |
| CH Flow - Return / Gas inlet | | Ø | 3/4" | 3/4" | 3/4" | 3/4" |
| DHW Inlet - Outlet / DHW tank Flow - Return | | Ø | 1/2" | 1/2" | 3/4" | 1/2" |
| DIMENSIONS, WEIGHT | | | | | | |
| Boiler dimensions (HxWxD) | | mm | 700x400x275 | 700x400x275 | 700x400x275 | 700x400x275 |
| Net weight | | kg | 28,5 | 30 | 27,5 | 29 |
| FLUE OPTIONS AND LENGTHS | | | | | | |
| Max length for concentric flue (Ø60-100mm) | | m | 5,85 | 4,85 | 5,85 | 5,85 |
| Max length for twin flue (Ø80-80 mm) | | m | 33+33 ^(A) | 27+27 ^(B) | 33+33 ^(A) | 33+33 ^(A) |

(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.

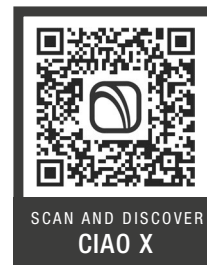
(***) Low temperature regime means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).

(A) Up to 52+52 via twin flue adapter with air inlet swelling position (available as an accessory)

(B) Up to 45+45 via twin flue adapter with air inlet swelling position (available as an accessory)



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27023873 - EN - rev.01 - 04/2025