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Beretta 20151437

Beretta Ciao Wall Boiler 24 CAI LX GPL User Manual

Model: 20151437

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Beretta Ciao 24 CAI LX GPL wall-mounted boiler, model 20151437. Please read this manual thoroughly before installation and use, and keep it for future reference. This appliance is designed to provide heating and hot water for domestic use.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation, maintenance, and repair must be carried out by qualified and authorized personnel only, in accordance with local regulations and standards.
- Do not attempt to modify the appliance or its components. Unauthorized modifications can be dangerous and will void the warranty.
- Ensure adequate ventilation in the installation area to prevent the accumulation of unburnt gases.
- If you smell gas, immediately shut off the gas supply, open windows and doors, and contact a qualified technician. Do not operate electrical switches or use open flames.
- Keep flammable materials away from the boiler.
- Regularly check the pressure gauge. If the pressure is too low or too high, consult the troubleshooting section or contact a technician.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. PRODUCT OVERVIEW

The Beretta Ciao 24 CAI LX GPL is a wall-mounted boiler designed for efficient heating and hot water supply. It operates on Liquid Propane Gas (LPG) and features a nominal heat output of 24 kW. The appliance has a seasonal space heating energy efficiency class of C and a water heating energy efficiency class of B.



Image 1: Front view of the Beretta Ciao 24 CAI LX GPL Wall Boiler. The boiler is white with a control panel at the bottom, featuring a digital display and rotary knobs.

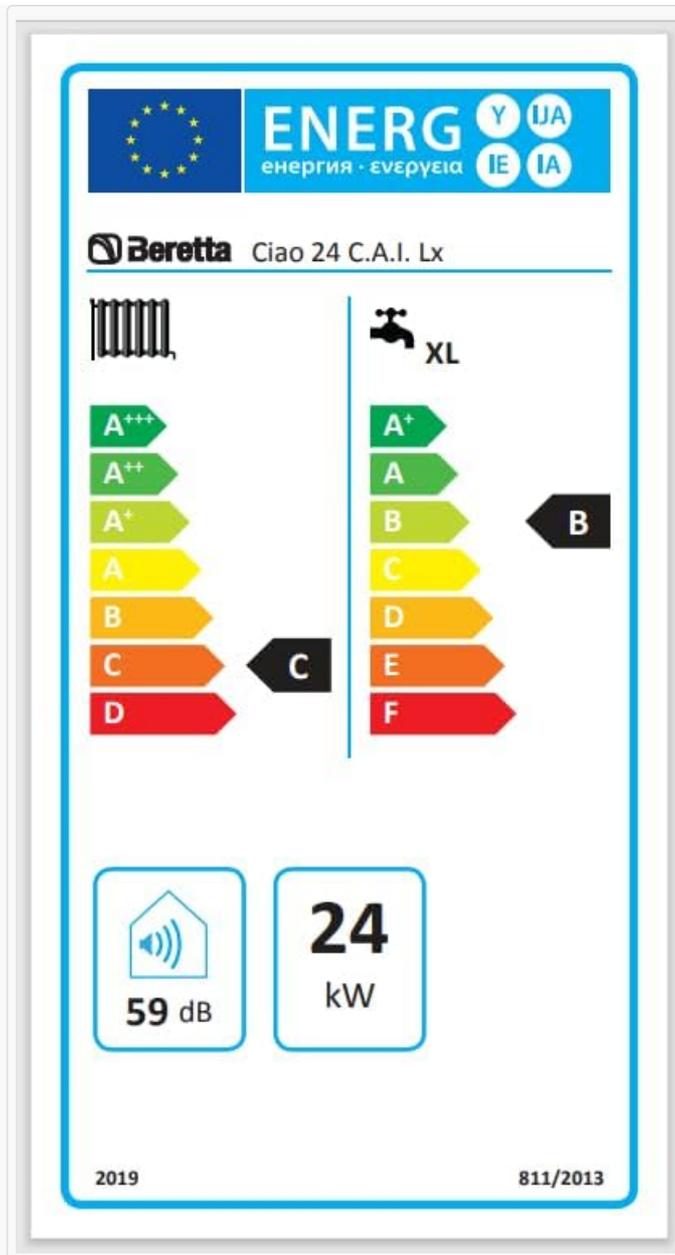


Image 2: Closer front view of the Beretta Ciao 24 CAI LX GPL Wall Boiler, highlighting the control panel with its digital display and two main rotary controls for temperature adjustment and mode selection.



DECLARATION

| | | | |
|--------|------------|-------|--------|
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Kiwa Cermet Italia hereby attests that the central heating boilers:

Trade mark:

BERETTA

Logo



Models:

*as specified in the **Annex 1***

are covered by the the essential requirements as described in the **Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.**

Appliance type: E_{11BS}

Countries: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MK, MT, NO, NL, PL, PT, RO, SE, SI, SK, TR

Related to the following gas groups: *as specified in the **Annex 1***

The assessment tests have been performed using the following standard as guidelines:
EN 15502-1:2012+A1:2015, EN 15502-2-2:2014

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

Via Cadrano, 23
40057 Granarolo dell'Emilia (BO)

Unità locale

Via Treviso 32/34
31020 San Vendemiano (TV)

Tel +39. 0438 411755

Fax +39.0438 22428

E-mail: info@kiwacermet.it

www.kiwa.it

www.kiwacermet.it

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The present declaration doesn't substitute the EC certificate nr. KIP-15917/G
This declaration is valid until withdrawal or replacement of the above mentioned EC certificate

**Industry Division Manager
Maurizio Lorenzon**

Rev.5

Image 3: Energy efficiency label for the Beretta Ciao 24 C.A.I. Lx boiler. It shows a seasonal space heating energy efficiency class of C and a water heating energy efficiency class of B, with a sound power level of 59 dB and a nominal heat output of 24 kW.

4. SETUP AND INSTALLATION

The Beretta Ciao 24 CAI LX GPL boiler is designed for wall mounting. Installation must be performed by a certified professional in compliance with all applicable local and national regulations for gas appliances and plumbing systems.

Key Installation Considerations:

- **Location:** Choose a suitable location that allows for proper ventilation, access for maintenance, and proximity to gas, water, and flue connections.
- **Mounting:** Securely mount the boiler to a load-bearing wall using appropriate fixings.
- **Gas Connection:** Connect the boiler to the LPG supply. Ensure all connections are leak-free and tested.
- **Water Connections:** Connect the domestic hot water and heating system pipes. Install isolation valves for ease of maintenance.
- **Flue System:** Install the flue system according to manufacturer instructions and local regulations to ensure safe exhaust of combustion products.
- **Electrical Connection:** Connect the boiler to the electrical supply. Ensure proper grounding.
- **System Filling:** Fill the heating system with water and bleed air from the radiators. Check the system pressure.

Refer to the detailed installation guide provided separately for specific instructions and diagrams.

5. OPERATING INSTRUCTIONS

This section provides general guidance on operating your Beretta Ciao 24 CAI LX GPL boiler. For detailed instructions on specific functions, refer to the control panel diagram and corresponding sections in the full manual.

5.1. Initial Start-up

1. Ensure the gas supply is open and the electrical supply is connected.
2. Check that the system water pressure is within the recommended range (typically 1.0 to 1.5 bar).
3. Turn the main power switch on. The boiler will perform a self-diagnostic check.
4. Select the desired operating mode (e.g., heating only, hot water only, or both) using the mode selector knob on the control panel.

5.2. Adjusting Temperature

- **Heating Temperature:** Use the heating temperature control knob to set the desired temperature for your central heating system.
- **Domestic Hot Water Temperature:** Use the hot water temperature control knob to set the desired temperature for your domestic hot water.

5.3. Shutting Down the Boiler

- For temporary shutdown, turn the mode selector knob to the 'off' or 'standby' position.
 - For extended periods of absence or maintenance, turn off the main power switch and close the gas supply valve.
-

6. MAINTENANCE

Regular maintenance is crucial for the safe, efficient, and long-lasting operation of your Beretta boiler. It is recommended that the boiler be serviced annually by a qualified technician.

6.1. User Maintenance (Monthly/Quarterly)

- **Visual Inspection:** Check for any visible leaks, corrosion, or unusual noises.
- **Pressure Check:** Monitor the system pressure on the gauge. If it falls below 1.0 bar, repressurize the system according to the instructions in the full manual.
- **Ventilation:** Ensure that all ventilation openings are clear and unobstructed.

6.2. Professional Annual Service

A qualified technician should perform the following during an annual service:

- Thorough cleaning of the combustion chamber, burner, and heat exchanger.
- Checking and adjusting gas pressure and combustion efficiency.
- Inspection of all safety devices.
- Checking for leaks in gas and water connections.
- Inspection of the flue system for blockages or damage.
- Testing of the expansion vessel.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your boiler. For more complex problems or if the issue persists, contact a qualified service technician.

| Problem | Possible Cause | Solution |
|-------------------------------|--|---|
| No heating or hot water | No gas supply, low system pressure, power failure, thermostat setting too low, boiler lockout. | Check gas valve, check power supply, repressurize system, check thermostat, reset boiler (refer to manual for reset procedure). |
| Boiler making unusual noises | Air in the system, low water pressure, pump issues, limescale buildup. | Bleed radiators, check system pressure, contact technician for pump or limescale issues. |
| Water leak | Loose connection, faulty component, excessive pressure. | Turn off water supply, contact a qualified plumber immediately. |
| Boiler displays an error code | Specific fault detected by the boiler's internal diagnostics. | Refer to the full manual's error code section for specific meanings and solutions. Attempt a boiler reset if recommended. |

8. SPECIFICATIONS

Detailed technical specifications for the Beretta Ciao 24 CAI LX GPL boiler, model 20151437.

| Feature | Detail |
|-----------------------------------|--|
| Brand | Beretta |
| Item Model Number | 20151437 |
| Product Dimensions (L x W x H) | 33 x 40 x 75 cm |
| Item Weight | 28 Kilograms |
| Energy Source | Liquid Propane Gas (LPG) |
| Color | White (Bianco) |
| Voltage | 1.5 Volt (likely for control panel/ignition) |
| Efficiency Class (Space Heating) | C |
| Efficiency Class (Water Heating) | B |
| Style | Open Chamber LPG |
| Mounting Type | Wall |
| Is Electric | No (refers to primary energy source) |
| Manufacturer | Beretta |
| Capacity Profile | XL |
| Nominal Heat Output | 24 kW |
| Annual Energy Consumption (GCV) | 90 GJ |
| Annual Electricity Consumption | 20 kWh |
| Annual Fuel Consumption (GCV) | 19 GJ |
| Seasonal Space Heating Efficiency | 77 % |
| Water Heating Energy Efficiency | 78 % |
| Sound Power Level (Indoor) | 59 dB |



DECLARATION

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ANNEX 1

Models

Mynute 28 C.A.I. Lx, Meteo 24 C.A.I. Lx, Meteo 28 C.A.I. Lx
are approved for following gas groups

| Group | mbar | Group | mbar | Group | mbar |
|-------|------|-------|-------|-------|-------|
| E | 20 | H | 20;25 | P | 37;50 |

Models

Mynute 24 C.A.I. Lx, Ciao 24 C.A.I. Lx, Quadra II 24 C.A.I. Lx
are approved for following gas groups

| Group | mbar | Group | mbar | Group | mbar |
|-------|------|-------|-------|-------|-------|
| E | 20 | H | 20;25 | P | 37;50 |
| Lw | 20 | Ls | 13 | | |

The above gas groups can be combined according to the standard EN437:2009 and national situation of countries.

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di
direzione e coordinamento di Kiwa Italia
Holding Srl
Via Cadrano, 23
40057 Granarolo dell'Emilia (BO)
Unità locale
Via Treviso 32/34
31020 San Vendemiano (TV)
Tel +39. 0438 411755
Fax +39.0438 22428
E-mail: info@kiwacermet.it
www.kiwa.it
www.kiwacermet.it

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| Number | KIP-15917/E | Replaces | — |
| Issued | 31-08-2018 | Scope | Directive 92/42/EEC Regulation (EU) No. 813/2013 |
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EC TYPE EXAMINATION CERTIFICATE

ANNEX 1

Models:

| | Mynute 24 C.A.I. Lx, Ciao 24 C.A.I. Lx, Quadra II 24 C.A.I. Lx | Mynute 28 C.A.I. Lx |
|------------------------|--|---------------------|
| η_{100} | 90,1 % | 90,5 % |
| η_{30} | 89,2 % | 89,5 % |
| η_4 | 81,1 % | 81,5 % |
| η_1 | 80,3 % | 80,6 % |
| P_4 | 24,1 kW | 28,9 kW |
| P_1 | 7,1 kW | 8,6 kW |
| C.Heater? | Yes | Yes |
| B ₁ Boiler? | Yes | Yes |
| Type of boiler: | Other | Other |

| | Meteo 24 C.A.I. Lx | Meteo 28 C.A.I. Lx |
|------------------------|--------------------|--------------------|
| η_{100} | 90,1 % | 90,3 % |
| η_{30} | 89,5 % | 89,2 % |
| η_4 | 81,1 % | 81,3 % |
| η_1 | 80,6 % | 80,3 % |
| P_4 | 24,1 kW | 28,8 kW |
| P_1 | 7,2 kW | 8,5 kW |
| C.Heater? | Yes | Yes |
| B ₁ Boiler? | Yes | Yes |
| Type of boiler: | Other | Other |

CERTIFICATE

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Holding Srl
Via Cadrano, 23
40057 Granarolo dell'Emilia (BO)
Unità locale
Via Treviso 32/34
31020 San Vendemiano (TV)
Tel +39. 0438 411755
Fax +39.0438 22428
E-mail: info@kiwacermet.it
www.kiwa.it
www.kiwacermet.it

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Image 5: Page 2 of the Kiwa Declaration of Conformity, Annex 1, listing various Beretta boiler models, including Ciao 24 C.A.I. Lx, and their approved gas groups and pressures.



| | | | |
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EC TYPE EXAMINATION CERTIFICATE

ANNEX 2

Note

η_{100} = At rated heat output and high-temperature regime - NCV (*)
 η_{30} = At 30 % of rated heat output and low-temperature regime - NCV (**)
 η_{+} = At rated heat output and high-temperature regime - GCV (*)
 η_{-} = At 30 % of rated heat output and low-temperature regime - GCV (**)
 P_4 = At rated heat output and high-temperature regime (*)
 P_1 = At 30 % of rated heat output and low-temperature regime (**)
C.Heater = Combination heater (Yes = with domestic hot water production / No = Heating system only)
 B_1 Boiler = B_1 according CEN/TR 1749:2014
Type of boiler = "Condensig Boiler" or "Low Temperature Boiler" or Other Boiler"

Efficiency's values have been measured with gas G20.

(n.t.= not tested)

- (*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.
- (**) 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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Società con socio unico, soggetta all'attività di
direzione e coordinamento di Kiwa Italia

Holding Srl

Via Cadriano, 23
40057 Granarolo dell'Emilia (BO)

Unità locale

Via Treviso 32/34
31020 San Vendemiano (TV)

Tel +39. 0438 411755

Fax +39 0438 22428

E-mail: info@kiwacermet.it

www.kiwa.it

www.kiwacermet.it

GAS TEC

Image 6: Page 1 of the Kiwa EC Type Examination Certificate, issued 31-08-2018, for Beretta boilers, including the Ciao 24 C.A.I. Lx, detailing performance data such as efficiency and heat output for different models.

Productkaart

Gedelegeerde Verordening (EU) 811/2013

| | |
|--|-----------------|
| Naam of handelsmerk leverancier | Beretta |
| Typeaanduiding | 20151437 |
| Capaciteitsprofiel | XL |
| Seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming | C |
| Energie-efficiëntieklasse voor waterverwarming | B |
| Nominale warmteafgifte | 24 kW |
| Jaarlijks energieverbruik - eindenergieverbruik | - kWh |
| Jaarlijks energieverbruik - GCV | 90 GJ |
| Jaarlijks elektriciteitsverbruik - eindenergieverbruik | 20 kWh |
| Jaarlijks brandstofverbruik - GCV | 19 GJ |
| Seizoensgebonden energie-efficiëntie voor ruimteverwarming | 77 % |
| Energie-efficiëntie van waterverwarming | 78 % |
| Geluidsvermogensniveau (binnen) | 59 dB |
| Specifieke voorzorgsmaatregelen | - |

listed in Annex 1, clarifying terms like rated heat output and temperature regimes.

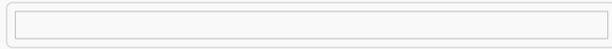


Image 8: Product Card (Productkaart) for the Beretta Ciao 24 CAI LX GPL boiler, summarizing key energy efficiency and performance data as per EU Regulation 811/2013.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase. Warranty terms and conditions may vary based on region and retailer.

For technical support, service, or spare parts, please contact your authorized Beretta dealer or a qualified service technician. Ensure you have your boiler's model number (20151437) and serial number available when contacting support.

