

Ferroli BLUEHELIX THETA 24 C

Ferroli BLUEHELIX THETA 24 C Condensing Boiler Instruction Manual

Model: BLUEHELIX THETA 24 C

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Ferroli BLUEHELIX THETA 24 C condensing boiler. Please read these instructions carefully before installation and use, and keep them for future reference. This appliance must be installed and serviced by qualified personnel in accordance with local regulations and standards.

2. SAFETY INFORMATION

- **Professional Installation:** Installation, first start-up, and maintenance must be carried out by qualified and authorized personnel only.
- **Gas Supply:** Ensure the gas supply type matches the boiler's configuration. Do not attempt to modify the gas type without proper authorization and technical expertise.
- **Ventilation:** Ensure adequate ventilation as required by local regulations for gas appliances.
- **Water Pressure:** Maintain correct system water pressure as specified in the technical data.
- **Electrical Connection:** Connect the boiler to a properly grounded electrical supply.
- **Flammable Materials:** Do not store flammable materials near the boiler.
- **Children and Unauthorized Persons:** Keep children and unauthorized persons away from the appliance.

3. PRODUCT OVERVIEW

The Ferroli BLUEHELIX THETA 24 C is a wall-mounted condensing boiler designed for both central heating and instant domestic hot water production. It features advanced technology for high efficiency and adaptability.

Key Features:

- **Stainless Steel Primary Exchanger:** Monocircuit design without junctions or welds, ensuring high efficiency even with older installations.
- **MC2 (Multi Combustion Control):** Patented gas-adaptive technology for optimal combustion and adaptability to varying gas network conditions (e.g., pressure fluctuations).

- **M.G.R. (Methane, LPG, Propane Air Ready):** Configurable for Methane, LPG, or Propane Air without additional conversion kits.
- **Instant Domestic Hot Water:** Dedicated plate heat exchanger for immediate hot water supply.
- **User Interface:** Equipped with a display and multifunction keys for easy parameter adjustment and setting.
- **Bypass:** Integrated bypass as standard.
- **Easy Maintenance:** Casing removable in 3 parts for quick and simple servicing.
- **ErP Ready:** Low consumption modulating heating circulator (Class A).
- **Digital Flame Control:** Includes three re-ignition attempts in case of flame detection failure (for methane models).
- **F.P.S. (Flue Protection System):** Optional accessory (041106X0 - exhaust gas valve kit) allows connection to collective pressurized flue systems.
- **Outdoor Installation:** Suitable for partially protected outdoor installation down to -5 °C as standard, and down to -15 °C with the optional anti-freeze resistance kit.

Dimensions and Connections:

The following diagram illustrates the boiler's dimensions and connection points. All measurements are in millimeters.



Image Description: Technical drawing showing the Ferrolì BLUEHELIX THETA 24 C boiler from front, side, top, and bottom views with key dimensions. The front view shows the control panel. The top view (VISTA SUPERIORE) indicates a width of 420mm and depth of 250mm. The bottom view (VISTA INFERIORE) details various connection points labeled 7 through 11, and A6, with specific spacing measurements. The overall height is 700mm, width 420mm, and depth 250mm.

- **Overall Dimensions:** Height: 700 mm, Width: 420 mm, Depth: 250 mm.
- **Bottom Connections (VISTA INFERIORE):** Numbered connections for various circuits, including gas, heating flow/return, and domestic hot water. Specific spacing is provided for installation planning.

4. SETUP AND INSTALLATION

Installation must be performed by a certified professional. Ensure all local codes and regulations are followed.

Installation Steps (Summary):

1. **Mounting:** Securely mount the boiler to a suitable wall using the provided mounting bracket, ensuring it is level and stable.
2. **Flue System:** Connect the flue system according to manufacturer instructions and local regulations. Ensure proper sealing.
3. **Hydraulic Connections:** Connect the heating flow and return pipes, domestic hot water inlet and outlet, and condensate drain. Refer to the 'VISTA INFERIORE' diagram for connection points.
4. **Gas Connection:** Connect the gas supply line to the boiler's gas inlet. Perform a leak test.
5. **Electrical Connection:** Connect the boiler to the main electrical supply. Ensure proper grounding.
6. **Filling the System:** Fill the heating system with water and vent all air from the system. Check for leaks.
7. **Gas Type Configuration:** Configure the boiler for the specific gas type (Methane, LPG, or Propane Air) using the user interface, if not already set by the installer.

5. OPERATING INSTRUCTIONS

The boiler's user interface consists of a display and multifunction keys for controlling its operation.

Basic Operation:

- **Power On/Off:** Use the main power switch to turn the boiler on or off.
- **Heating Temperature Adjustment:** Use the designated keys on the control panel to increase or decrease the central heating water temperature.
- **Domestic Hot Water Temperature Adjustment:** Adjust the desired domestic hot water temperature using the relevant controls.
- **Operating Modes:** Select between heating only, hot water only, or combined heating and hot water modes as needed.
- **Sliding Temperature Operation:** If an optional outdoor probe is installed, the boiler can operate in a sliding temperature mode, automatically adjusting the heating water temperature based on external conditions for optimized efficiency.

Refer to the detailed user interface section in the full manual for specific button functions and display indicators.

6. MAINTENANCE

Regular maintenance is crucial for the safe, efficient, and long-lasting operation of your Ferroli BLUEHELIX THETA 24 C boiler. All maintenance should be performed by qualified service personnel.

Recommended Maintenance:

- **Annual Inspection:** Have the boiler inspected and serviced annually by a qualified technician. This includes checking combustion efficiency, gas tightness, water pressure, and cleaning components.
- **Casing Removal:** The boiler's casing is designed to be easily removed in three parts, facilitating quick access for maintenance and cleaning.
- **Water Pressure Check:** Periodically check the system water pressure on the boiler's display. If it falls below the recommended level, repressurize the system according to the instructions.
- **Anti-freeze Protection:** If the boiler is installed in an area prone to freezing temperatures, ensure the optional anti-freeze resistance kit is installed and functioning, or take other appropriate measures to prevent freezing.

7. TROUBLESHOOTING

If you encounter issues with your boiler, refer to the following common troubleshooting points. For complex problems, contact a qualified service technician.

- **No Heating/Hot Water:**
 - Check if the boiler is powered on.
 - Verify the system water pressure.
 - Ensure the thermostat is set correctly and calling for heat.
 - Check for error codes on the display.
- **Error Codes:** If an error code appears on the display, consult the full user manual for its meaning and recommended action. Some errors may require a technician.
- **Digital Flame Control:** The boiler features digital flame control with three re-ignition attempts. If the flame fails to establish after these attempts, the boiler will lock out. This often indicates a gas supply issue or a fault with the ignition system.
- **F.P.S. (Flue Protection System):** If the optional F.P.S. accessory is installed and an issue with the flue system is detected, the boiler may shut down for safety.

Important: Do not attempt to repair internal components yourself. Always contact a qualified technician for repairs.

8. SPECIFICATIONS

Technical specifications for the Ferroli BLUEHELIX THETA 24 C boiler:

Specification	Value
Brand	Ferroli
Model	BLUEHELIX THETA 24 C
Manufacturer Reference	0TPY2AWA
Product Type	Condensing Wall-Mounted Boiler
Weight	51 kg
Dimensions (H x W x D)	700 x 420 x 250 mm
Style	Industrial

Specification	Value
Shape	Rectangular
Gas Adaptability	Methane, LPG, Propane Air (M.G.R.)
Energy Efficiency Class	ErP Ready (Class A circulator)
Outdoor Installation	Down to -5 °C (standard), -15 °C (with optional anti-freeze kit)
ASIN	B0CKXWPWFP

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your authorized Ferroli dealer. Keep your proof of purchase for warranty claims.

Customer Support:

For technical assistance, spare parts, or service requests, please contact your local authorized Ferroli service center or the retailer from whom you purchased the product. Ensure you have the boiler's model number (BLUEHELIX THETA 24 C) and manufacturer reference (0TPY2AWA) available when contacting support.