

Baxi 28/28F

Baxi Neodens Plus Eco 28/28F Gas Boiler User Manual

Model: Neodens Plus Eco 28/28F (Reference: 7221172)

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Baxi Neodens Plus Eco 28/28F condensing gas boiler. This appliance is designed to provide both heating and domestic hot water (DHW) for residential applications. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper functioning and to prevent potential hazards.

2. SAFETY INFORMATION

Important: Installation, commissioning, servicing, and repair of this appliance must only be carried out by a qualified and competent professional in accordance with all local and national regulations, standards, and codes of practice.

- **Gas Safety:** Ensure proper ventilation and never obstruct air vents. If you smell gas, immediately shut off the gas supply, open windows, evacuate the premises, and contact your gas supplier or emergency services. Do not operate electrical switches or phones.
- **Electrical Safety:** Ensure the appliance is properly earthed. Do not touch electrical components with wet hands. Disconnect power before any maintenance.
- **Water Safety:** The boiler operates with hot water. Be aware of hot surfaces and hot water discharge.
- **Children and Vulnerable Persons:** Keep children and individuals with reduced physical, sensory, or mental capabilities away from the appliance unless supervised.
- **Modifications:** Do not modify the appliance or its components. Unauthorized modifications can be dangerous and will void the warranty.

3. PRODUCT FEATURES

The Baxi Neodens Plus Eco 28/28F boiler incorporates advanced technology for efficient heating and hot water production.

- **High Performance:** Delivers high performance for both central heating and domestic hot water, capable of supplying two taps simultaneously.
- **Compact Design:** With dimensions of 30 x 40 x 70 cm, its reduced size makes it suitable for installation in small spaces or kitchen cabinets.
- **A+ Energy Efficiency:** Achieves an A+ energy rating for heating when combined with a modulating thermostat and an outdoor sensor, contributing to energy savings and increased comfort.
- **Low Energy Consumption:** Features GAS Inverter technology with a 1:7 modulation ratio, optimizing gas consumption for efficient, reliable, and quiet operation.
- **Digital Control:** Equipped with a digital control panel and a backlit screen for easy and comfortable management of heating and hot water temperatures.
- **Micro-accumulation System:** Reduces waiting time for hot water, providing immediate comfort.
- **Solar System Compatibility:** Designed to be compatible with solar thermal systems, allowing for integration with renewable energy sources.
- **Instant Gas Adjustment:** Allows for easy conversion between natural gas and propane by modifying parameters, eliminating the need for manual gas valve adjustments.
- **Optional Smartphone Control:** With the optional TXM thermostat and the HeatConnect application, you can manage your home's comfort remotely via your mobile devices with an internet connection.



Image 1: Front view of the Baxi Neodens Plus Eco 28/28F gas boiler, showing its white casing and integrated digital control panel with a green display.

4. INSTALLATION (SETUP)

The installation of the Baxi Neodens Plus Eco 28/28F boiler must be performed by a qualified and certified heating engineer. Incorrect installation can lead to serious hazards, including gas leaks, carbon monoxide poisoning, fire, or electric shock.

- **Location:** The boiler should be installed in a suitable location, considering its dimensions (30 x 40 x 70 cm) and weight (47.5 kg). Ensure adequate ventilation and clearance for maintenance.
- **Flue System:** A correct and sealed flue system must be installed to safely discharge combustion products.

- **Gas Connection:** The gas supply must be connected by a qualified professional, ensuring all connections are leak-free and meet local regulations. The boiler is designed for natural gas but can be adjusted for propane.
- **Water Connections:** Connect the heating flow and return pipes, as well as the domestic hot water inlet and outlet pipes, following the manufacturer's guidelines.
- **Electrical Connection:** The boiler requires a stable electrical supply. The electrical connection must be made by a qualified electrician.
- **System Filling:** After installation, the heating system must be filled with water and vented to remove air.
- **Commissioning:** The boiler must be commissioned by a qualified engineer to ensure it operates safely and efficiently.

5. OPERATION

Once installed and commissioned, operating your Baxi Neodens Plus Eco 28/28F boiler is straightforward using the digital control panel.

- **Power On/Off:** Use the main power switch to turn the boiler on or off.
- **Digital Display:** The backlit digital screen displays current status, temperatures, and any error codes.
- **Heating Temperature Adjustment:** Use the dedicated buttons on the control panel to increase or decrease the desired heating temperature for your home.
- **Domestic Hot Water (DHW) Temperature Adjustment:** Adjust the desired hot water temperature using the specific DHW controls. The micro-accumulation system ensures quick hot water delivery.
- **Mode Selection:** Select between heating only, DHW only, or combined heating and DHW modes as required.
- **Optional Smart Control:** If the optional TXM thermostat and HeatConnect app are installed, you can control and monitor your boiler remotely via your smartphone or tablet. Refer to the TXM thermostat manual for detailed instructions.

6. MAINTENANCE

Regular maintenance is crucial for the safe, efficient, and long-lasting operation of your Baxi Neodens Plus Eco 28/28F boiler. All maintenance should be carried out by a qualified service technician.

- **Annual Service:** It is highly recommended to have your boiler serviced annually by a qualified professional. This includes checking for leaks, verifying combustion efficiency, cleaning components, and ensuring all safety devices are functioning correctly.
- **Visual Inspection:** Periodically check the boiler for any visible signs of damage, leaks, or unusual noises. Contact a technician if you notice any issues.
- **Pressure Check:** Monitor the system pressure gauge. If the pressure is consistently too low or too high, consult your service technician.
- **Cleaning:** Keep the area around the boiler clear and free from obstructions. Do not block any ventilation openings.

7. TROUBLESHOOTING

If your boiler experiences an issue, the digital display may show an error code. Refer to the full technical manual or contact a qualified service technician for diagnosis and repair.

- **No Heat/Hot Water:** Check if the boiler is powered on, the gas supply is open, and the system pressure is adequate. Ensure the thermostat is set correctly.
- **Error Codes:** If an error code appears on the display, note the code and consult your service manual or contact a technician, providing them with the code.
- **Unusual Noises:** Gurgling, banging, or whistling sounds can indicate air in the system, low pressure, or other internal issues. Contact a professional.
- **Leaks:** Any signs of water leakage require immediate attention from a qualified technician.

Do not attempt to repair the boiler yourself. Always contact a qualified and certified heating engineer for any repairs or complex troubleshooting.

8. SPECIFICATIONS

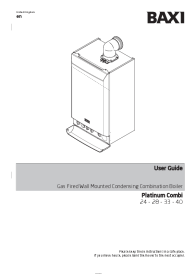

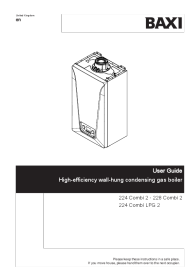

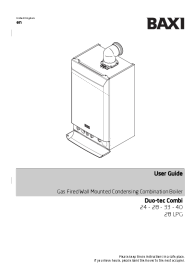
Feature	Specification
Model	Neodens Plus Eco 28/28F
Reference Number	7221172
Type	Condensing Gas Boiler (Mixed)
Nominal Power (Heating & DHW)	28 kW
Dimensions (L x W x H)	30 x 40 x 70 cm
Weight	47.5 kg
Energy Efficiency Class (Heating)	A+ (with modulating thermostat and outdoor sensor)
Gas Type	Natural Gas (convertible to Propane)
Special Features	GAS Inverter technology (1:7 modulation ratio), Micro-accumulation, Digital control panel, Solar system compatible


9. WARRANTY AND SUPPORT

For detailed information regarding the warranty period and terms for your Baxi Neodens Plus Eco 28/28F boiler, please refer to the documentation provided at the time of purchase or visit the official Baxi website for your region.

In case of technical issues, service requests, or to locate an authorized service center, please contact your installer or the official Baxi customer support in your country. Always ensure that any service or repair work is carried out by a qualified and authorized technician to maintain warranty validity and ensure safe operation.

Related Documents - 28/28F

 The image shows the cover of the Baxi Platinum Combi boiler user guide. It features a line drawing of the boiler unit. The text on the cover includes 'BAXI', 'User Guide', 'Gas Fired Wall Mounted Condensing Combination Boiler', 'Platinum Combi', and '24, 28, 33, 40'.	<p>Baxi Platinum Combi Boiler User Guide: Operation, Safety, and Troubleshooting</p> <p>Comprehensive user guide for Baxi Platinum Combi 24, 28, 33, and 40 gas-fired wall-mounted condensing combination boilers. Covers installation, operation, maintenance, troubleshooting, warranty, and safety information.</p>
 The image shows the cover of the Baxi Boiler Range Guide. It features a blue background with images of various Baxi boiler models. The text on the cover includes 'BAXI', '7 YEAR', '10 YEAR', '5 YEAR', '2 YEAR', 'Baxi range guide', and a checkmark icon.	<p>Baxi Boiler Range Guide: Boilers, Specifications, and Installer Information</p> <p>Comprehensive guide to Baxi boilers, including the Baxi 200, 400, 600, and 800 series. Features, specifications, flue solutions, installer training, and support information.</p>
 The image shows the cover of the Baxi 224/228 Combi 2 High-Efficiency Wall-Hung Condensing Gas Boiler User Guide. It features a line drawing of the boiler unit. The text on the cover includes 'BAXI', 'User Guide', 'High-efficiency wall-hung condensing gas boiler', '224 Combi 2', '228 Combi 2', and '224 Combi LPG 2'.	<p>Baxi 224/228 Combi 2 High-Efficiency Wall-Hung Condensing Gas Boiler User Guide</p> <p>Comprehensive user guide for Baxi 224 Combi 2, 228 Combi 2, and 224 Combi LPG 2 high-efficiency wall-hung condensing gas boilers, covering installation, operation, maintenance, troubleshooting, and warranty information.</p>
 The image shows the cover of the Baxi Boiler Quick Start Guide. It features a photograph of a smiling couple looking at a Baxi boiler unit. The text on the cover includes 'Quick start guide to your new boiler', 'BAXI', and a small image of the boiler.	<p>Baxi Boiler Quick Start Guide: Operation, Warranty, and Troubleshooting</p> <p>A comprehensive quick start guide for Baxi boilers, covering operation, energy-saving tips, warranty registration and terms, annual servicing importance, system maintenance, troubleshooting common issues, and contact information.</p>
 The image shows the cover of the Baxi Duo-tec Combi boiler user guide. It features a line drawing of the boiler unit. The text on the cover includes 'BAXI', 'User Guide', 'Gas Fired Wall Mounted Condensing Combination Boiler', 'Duo-tec Combi', and '24, 28, 33, 40, 28 LPG'.	<p>Baxi Duo-tec Combi User Guide: Installation, Operation, and Troubleshooting</p> <p>Comprehensive user guide for the Baxi Duo-tec Combi gas-fired wall-mounted condensing combination boiler, covering installation, operation, troubleshooting, warranty, and technical specifications. Includes model details for 24, 28, 33, 40, and 28 LPG variants.</p>

<div data-bbox="124 98 159 114"><p>Check chapter 85</p></div> <div data-bbox="261 98 300 114"><p>BAXI</p></div> <div data-bbox="183 129 247 232"></div> <div data-bbox="175 264 300 315"><p>Installation and Service Manual & Safety Data high-efficiency wall-hung condensing gas boiler</p></div> <div data-bbox="261 293 300 315"><p>400 Combi 2.1 600 Combi 2 800 Combi 2 Assure500 Combi 2</p></div> <div data-bbox="199 338 300 351"><p>Techn. Manual for Baxi Combi 2.1, 600 Combi 2, 800 Combi 2, Assure500 Combi 2 and for the Baxi Combi 2.1, 600 Combi 2, 800 Combi 2, Assure500 Combi 2</p></div>	<div data-bbox="341 154 959 183"><p>Baxi Combi 2.1 Series Installation and Service Manual</p></div> <div data-bbox="341 197 1449 304"><p>Comprehensive installation and service manual for Baxi 400 Combi 2.1, 600 Combi 2, 800 Combi 2, and Assure 500 Combi 2 high-efficiency wall-hung condensing gas boilers, covering technical specifications, installation, operation, and maintenance.</p></div>
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