

BreAro XMZ-D1

BreAro 5KW 12V Diesel Air Heater User Manual

Model: XMZ-D1

Brand: BreAro

1. IMPORTANT SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing or operating this diesel air heater. Failure to follow these instructions may result in fire, explosion, electric shock, or serious injury.

- **Carbon Monoxide Hazard:** This heater produces carbon monoxide, which is an odorless, colorless gas that can cause death. Always ensure adequate ventilation when operating the heater. Do not operate in enclosed spaces without proper exhaust ventilation.
- **Fire Hazard:** Keep flammable materials, such as gasoline, solvents, and other combustible liquids, away from the heater. Ensure the exhaust pipe is properly installed and routed away from any flammable surfaces.
- **Proper Fuel:** Use only diesel fuel as specified. Do not use gasoline or other volatile fuels.
- **Electrical Safety:** Ensure the power supply matches the heater's requirements (12V). Do not modify the electrical wiring. Disconnect power before performing any maintenance or service.
- **Overheating Protection:** The unit is equipped with overheating protection (at ≥ 230 °C/440°F). Do not block air inlets or outlets.
- **Installation:** Professional installation is recommended. Ensure all connections are secure and leak-free.

≥440°F OVERHEATING PROTECTION



UL
CERTIFICATION



FCC
CERTIFICATION



THERMOSTATIC
CONTROL



OVERHEATING
PROTECTION



Image: Internal view of the heater's core, illustrating the overheating protection system. This system automatically shuts down the heater if temperatures exceed safe operating limits, preventing damage and ensuring user safety.

2. PACKAGE CONTENTS

Upon unpacking, please verify that all components listed below are present and undamaged:

- 1 x Integrated Diesel Heater
- 1 x Remote control
- 1 x Silencer
- 1 x Tubing
- 1 x Harness
- 1 x Wind head
- 1 x Air Filter
- 1 x Exhaust pipe
- 1 x Inlet air pipe
- 1 x Outlet air pipe

- 1 x Screw Accessory Kit
- 1 x English instruction manual

STABLE HEAT CONTROL IMPROVES COMFORT



Image: A comprehensive display of all accessories included with the BreAro 5KW Diesel Air Heater, showing the main unit, remote control, silencer, various pipes (inlet, outlet, exhaust), air filter, wiring harness, and the screw accessory kit, alongside the user manual.

3. SETUP AND INSTALLATION

The BreAro 5KW Diesel Air Heater is designed for portable use and can be installed in various settings. For detailed installation steps, please refer to the dedicated [Installation Manual \(PDF\)](#).

General Installation Guidelines:

1. **Placement:** Choose a stable, level surface for the heater. Ensure there is sufficient clearance around the unit for proper airflow and heat dissipation.
2. **Exhaust System:** Connect the exhaust pipe securely and route it outdoors, away from any combustible materials or vehicle components. Ensure no exhaust gases can enter the heated space.
3. **Air Intake:** Connect the air intake pipe. Ensure it draws clean air and is not obstructed.

4. **Fuel Connection:** Fill the integrated 5L fuel tank with clean diesel fuel. Ensure the fuel cap is securely tightened.
5. **Electrical Connection:** Connect the heater to a 12V power source using the provided harness. Ensure correct polarity and a secure connection.
6. **Testing:** Before full operation, perform a test run to check for proper function, leaks, and unusual noises.



Image: The BreAro 5KW Diesel Air Heater main unit shown with its various accessories, including the exhaust pipe, air intake pipe, and fuel tank, illustrating the components involved in a typical setup.

4. OPERATING INSTRUCTIONS

The BreAro diesel heater features an intuitive LCD display and a remote control for convenient operation.

4.1. LCD Display and Control Panel:

The integrated LCD monitor provides real-time information and allows direct control over the heater's functions.

- **Power On/Off:** Press the power button to turn the unit on or off.

- **Temperature Adjustment:** Use the 'Raise' and 'Low' buttons to set your desired temperature. The adjustable range is 46.4 °F-96.8 °F (8 °C-36 °C). The heater will automatically maintain the set temperature.
- **Timer Setting:** Utilize the timer function to schedule automatic power-on or power-off times.
- **Display Information:** The LCD shows current temperature, fan speed, operating mode, and error codes if any.

4.2. Remote Control:

The remote control allows you to operate the heater from up to 32 ft (10 m) away.

- **Functions:** The remote mirrors the main functions of the LCD panel, including power on/off, temperature adjustment (Raise/Low), and mode selection.
- **Battery:** Ensure the remote control has working batteries for optimal performance.



Image: A visual representation of the two control methods for the BreAro diesel heater: the integrated LCD monitor on the unit and the separate 32ft remote control. Key buttons for 'Raise', 'On/Off', and 'Low' are highlighted on both interfaces.

4.3. Fuel Management:

The heater is designed for efficient fuel consumption.

- **Fuel Type:** Use only clean diesel fuel.
- **Fuel Tank Capacity:** The integrated fuel tank has a 5 L (1.3 Gal) capacity, providing continuous heat for up to 16 hours on a full tank.
- **Fuel Level Monitoring:** The transparent fuel tank allows for easy visual monitoring of the fuel level. Refill when the level is low to prevent dry running.

1 GAL DIESEL FOR 1 NIGHT

1.3GAL (5L) CAPACITY VISIBLE

ENERGY-EFFICIENT

ALUMINUM FUEL PUMP BODY

100% COMBUSTION

BREARO

0.06-0.13 (GAL/H)

Others

0.07-0.17 (GAL/H)

LESS THAN 25% ADD DIESEL

5L 100%
3.75L 75%
2.5L 50%

Image: A graphic highlighting the fuel efficiency of the BreAro diesel heater, emphasizing its 1.3-gallon (5L) visible capacity, energy-efficient operation, aluminum fuel pump body, and 100% combustion for minimal waste. The image also shows the fuel level indicator on the side of the heater.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your BreAro diesel heater.

- **Cleaning:** Periodically clean the exterior of the heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Air Filter:** Check the air filter regularly for dust and debris. Clean or replace as necessary to ensure proper airflow and prevent reduced performance.
- **Fuel Tank:** Drain and clean the fuel tank periodically, especially if the heater will be stored for an

extended period, to prevent fuel degradation and sediment buildup.

- **Exhaust System:** Inspect the exhaust pipe and silencer for any blockages, damage, or leaks. Ensure they are securely attached.
- **General Inspection:** Before each use, visually inspect the heater for any signs of damage, loose connections, or unusual wear.

6. TROUBLESHOOTING

If you encounter issues with your heater, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Heater does not start	No power; Low fuel; Air in fuel line; Faulty ignition.	Check power connection; Refill fuel tank; Bleed air from fuel line; Contact support if ignition issue persists.
Low heat output	Blocked air intake/outlet; Dirty air filter; Incorrect temperature setting.	Clear obstructions; Clean/replace air filter; Adjust temperature setting higher.
Excessive smoke/odor	Poor combustion; Incorrect fuel; Exhaust blockage.	Ensure proper ventilation; Use correct diesel fuel; Check exhaust for blockages.
Error code on LCD	Specific system fault.	Refer to the detailed instruction manual for specific error code meanings and solutions.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Heater Power	5 KW
Rated Voltage	12V
Heat Output	4700~17000 BTU
Applicable Area	215-269 ft ² / 20-25 m ²
Adjustable Temperature Range	46.4 °F-96.8 °F (8 °C-36 °C)
Fuel Tank Capacity	5 L / 1.3 Gal
Fuel Consumption	0.16-0.52 L/H
Overheating Protection	≥230 °C / 440°F
Remote Control Range	32 ft / 10 m

Feature	Specification
Item Weight	20.6 pounds
Item Model Number	XMZ-D1

8. WARRANTY AND SUPPORT

BreAro stands behind the quality of its products. For any issues regarding missing parts, assembly problems, or other concerns, please contact BreAro Direct, the seller, through your purchase platform. Please retain your proof of purchase for warranty claims.

For additional support and resources, you may visit the official [BreAro Store on Amazon](#).