



[Manuals.plus](#) /

> [POXURIO](#) /

> POXURIO 7L 8KW Diesel Heater User Manual (Model KF620025US-01HDR-001-HX-WH)

POXURIO KF620025US-01HDR-001-HX-WH

POXURIO 7L 8KW Diesel Heater User Manual

Model: KF620025US-01HDR-001-HX-WH | Brand: POXURIO

1. INTRODUCTION

The POXURIO 7L 8KW Diesel Heater is an all-in-one unit designed to provide consistent and efficient heating across various environments. This portable diesel air heater supports multiple voltage inputs (12V, 24V, 100-125V, 240V) making it suitable for a wide range of applications including trucks, RVs, homes, cars, campers, and boats. With an 8KW heating capacity, it can warm spaces of 215-269 sq. ft. (20-25m²) within approximately 10 minutes. Its 7L (1.85GAL) large-capacity fuel tank allows for up to 24 hours of continuous heating with a low fuel consumption rate of 0.16-0.62 L/H. The heater operates quietly at less than 45dB and features an upgraded anti-oil leakage design for enhanced safety and durability.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always ensure proper ventilation when operating the heater. Exhaust fumes must be vented outdoors.
- Use only diesel fuel. Do not use gasoline or other volatile fuels.
- Keep flammable materials at a safe distance from the heater and its exhaust.
- Ensure the heater is placed on a stable, level surface to prevent tipping.
- Regularly inspect the exhaust system for leaks or blockages.
- Do not operate the heater in enclosed, unventilated spaces where carbon monoxide can accumulate.
- Keep children and pets away from the operating heater.

3. PACKAGE CONTENTS

The POXURIO 7L 8KW Diesel Heater package includes the following components:

- Main Diesel Heater Unit with 7L Fuel Tank
- LCD Control Panel (integrated)
- Remote Control
- 100-125V/240V AC Adapter
- 12V/24V DC Power Cord
- Air Filter
- Hot Air Outlet Vent
- Exhaust Pipe
- Muffler
- Inlet Pipe
- Silent Oil Pump
- Installation Kit (clamps, screws, brackets)
- User Manual



Figure 1: All components included with the POXURIO 7L 8KW Diesel Heater.

4. SETUP AND INSTALLATION

4.1 Fueling the Heater

The heater features a built-in 7L fuel tank. To fill:

1. Unscrew the fuel cap located on the top of the unit.
2. Carefully pour diesel fuel into the tank. Ensure not to overfill.
3. Securely replace the fuel cap. The upgraded anti-oil leakage design with internal thread and rubber ring helps prevent spills.



Figure 2: The 7L large capacity fuel tank ensures extended operation.

4.2 Exhaust System Connection

Proper installation of the exhaust system is crucial for safety. The exhaust must always be vented outdoors.

1. Connect the exhaust pipe to the designated port on the heater unit using the provided clamps.
2. Attach the muffler to the end of the exhaust pipe.
3. Route the exhaust pipe safely outdoors, ensuring it is clear of any flammable materials and away from windows or vents that could draw fumes back inside.

Your browser does not support the video tag.

Video 1: Demonstration of exhaust pipe and muffler connection to the diesel heater. Ensure external venting for safety.

4.3 Air Intake and Hot Air Outlet

Connect the air intake and hot air outlet pipes:

1. Attach the air intake pipe to the intake port on the heater.
2. Connect the hot air outlet vent to the hot air outlet port. Direct the hot air towards the area you wish to heat.

HEATING MECHANISM DEMONSTRATION

Cold air is drawn in through the air inlet, flows past the heated aluminum body to be warmed, and then the heated air is expelled from the air outlet



Figure 3: Diagram illustrating the heating mechanism, with cold air drawn in and heated air expelled from the outlet.

4.4 Power Connection

The POXURIO diesel heater supports multiple power options:

- **12V/24V DC:** Use the provided DC power cord to connect directly to a 12V or 24V battery source (e.g., vehicle battery).
- **100-125V/240V AC:** Use the included AC adapter to plug the heater directly into standard household sockets.



Figure 4: The heater supports various voltage inputs, including 110V AC and 12V/24V DC for versatile use.

5. OPERATING INSTRUCTIONS

5.1 Starting the Heater

The heater is designed for easy startup:

1. Ensure the fuel tank is filled with diesel and power is connected.
2. Press and hold the power button on the integrated LCD control panel or the remote control for 2-3 seconds.
3. The heater will begin its priming sequence, drawing fuel into the glow plug. This may take a few minutes.
4. Once primed, the fan will kick on, and warm air will begin to flow from the outlet.

Your browser does not support the video tag.

Video 2: Quick overview of the POXURIO Diesel Heater, demonstrating its compact design and ease of use.

5.2 LCD Control Panel

The integrated LCD switch displays the working status and allows for direct control:

- Monitor current temperature and power level.
- Adjust heating power (P-level) using the up/down buttons.

- View fuel level indicator.

5.3 Remote Control

The remote controller is pre-paired and offers convenient operation from up to 100ft away:

- Press 'ON' to start the heater.
- Press 'OFF' to shut down the heater.
- Use '+' and '-' buttons to increase or decrease the heating power.

100FT REMOTE DISTANCE
Can Also Be Controlled By LCD Screen

-5°C

37°C

VS

**External controller
Manual start/stop only**

**Command Perfect
Comfort wit
Pinpoint Accuracy
Remote control**

Figure 5: The remote control allows for convenient operation from a distance, complementing the integrated LCD panel.

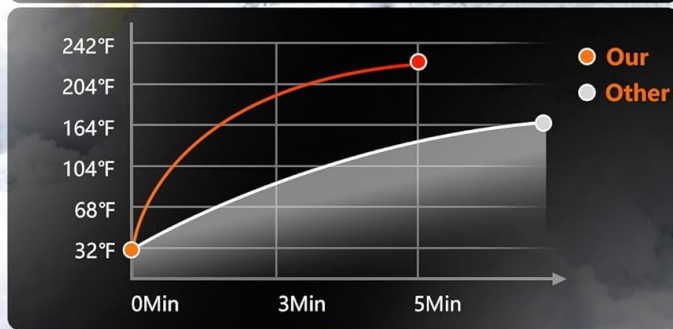
5.4 Fast Heating Performance

The 8KW heater is designed for rapid heating, reaching desired temperatures quickly.

HEATING FAST IN 5MIN



32°F - 242°F in 5mins



Temperature Regulation



Temperature Control



Excessive Heat Protection

Figure 6: The heater achieves rapid temperature increases, reaching 32-242°F in approximately 5 minutes.

5.5 Low Noise Operation

The heater operates with a low noise level of less than 45dB, ensuring a quiet environment.

WARMTH WITHOUT BOUNDS



8kw
Combustion Power



≤45dB
Low Noise Operation



Silent Oil Pump



**American
standard plug**

Figure 7: The low noise operation of the heater ensures a peaceful environment, even during sleep.

5.6 High Altitude Performance

The heater is tested for reliable operation at altitudes up to 6000 meters.

LOW TEMPERATURE OR HIGH ALTITUDE AREAS

Tested at an Altitude of up to **6000 METERS**



Figure 8: The heater maintains performance in low temperature or high altitude areas, tested up to 6000 meters.

5.7 Versatile Applications

The POXURIO diesel heater is suitable for a wide range of uses due to its portability and multi-voltage support.



Figure 9: Examples of the heater's diverse applications, including recreational vehicles, homes, and workshops.

5.8 Weather Resistance

The heater features a rain/snow proof design, allowing for outdoor placement.



Figure 10: The robust design ensures the heater is resistant to rain and snow, suitable for outdoor use.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your diesel heater:

- **Cleaning:** Periodically clean the exterior of the unit and ensure air intake/outlet vents are free from dust and debris.
- **Fuel Filter:** Check and clean the fuel filter as needed to prevent blockages and ensure consistent fuel flow.
- **Exhaust System:** Inspect the exhaust pipe and muffler for any signs of damage, corrosion, or blockages. Ensure all connections remain secure.
- **Storage:** When storing the heater for extended periods, ensure the fuel tank is empty and the unit is clean and dry. Store in its original packaging or a protective box.

7. TROUBLESHOOTING

If you encounter issues with your diesel heater, consider the following common troubleshooting steps:

- **No Heat/Failure to Start:** Check fuel level, ensure power connection is secure, and verify the glow plug is functioning. The unit may need to prime for a few minutes on first use or after refueling.
- **Error Codes:** Refer to the detailed user manual for specific error codes displayed on the LCD panel and their corresponding solutions.
- **Reduced Heat Output:** Check for blockages in the air intake or hot air outlet. Ensure the fuel filter is clean.
- **Unusual Noise:** Inspect the fan for obstructions. Ensure the unit is on a stable surface.

8. SPECIFICATIONS

Feature	Detail
Brand	POXURIO
Model Number	KF620025US-01HDR-001-HX-WH
Heater Power	8 KW
Rated Voltage	12V / 24V / 100-125V / 240V
Fuel Type	Diesel
Fuel Tank Capacity	7L (1.85 GAL)
Fuel Consumption	0.16 - 0.62 L/H
Applicable Range	215-269 sq. ft. (20-25 m ²)
Working Temperature	-45°F - 109°F
Noise Level	< 45dB
Item Weight	21 pounds
Package Dimensions	17.75 x 17.5 x 14.5 inches

9. WARRANTY AND SUPPORT

Your POXURIO 7L 8KW Diesel Heater comes with a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact POXURIO customer service through the vendor's contact information provided at the point of purchase or on the official POXURIO website.