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VEVOR XMZ-D1

VEVOR 8kW DC12-24V Diesel Air Heater Instruction Manual

Model: XMZ-D1 | Brand: VEVOR

1. INTRODUCTION

This VEVOR 8kW diesel air heater operates on DC 12V-24V, providing efficient heating for areas ranging from 161-215 FT². It features a ceramic igniter for quick starts in cold weather, ensuring rapid temperature increase in your vehicle, RV, boat, or other suitable spaces.

Key features include upgraded security measures such as a heat-insulated exhaust pipe shield to prevent burns, a leak-proof fuel cap for safety on rough roads, and a fuel gauge for timely refueling to avoid dry burning. The precision low-noise fuel pump ensures low fuel consumption (0.18-0.36L/h), with a 5L (1.3gal) tank and over 90% combustion efficiency for maximized fuel use.

The heater offers dual control options: a 98ft remote control for convenient preheating and an LCD screen for temperature adjustment between 32-104°F. Designed for wide applicability, it functions effectively at altitudes under 9843ft, providing continuous warmth in various challenging environments.

2. SAFETY INFORMATION

General Safety: Always operate the heater in a well-ventilated area. Ensure all connections are secure before operation. Keep children and pets away from the heater during use.

Fuel Handling: Use only diesel fuel. Do not overfill the fuel tank. Avoid spilling fuel and clean up any spills immediately. Ensure the fuel cap is securely fastened.

Exhaust and Ventilation: The exhaust pipe must be routed outside the enclosed space to prevent carbon monoxide buildup. Ensure proper intake of fresh air for combustion. Keep flammable or explosive materials clear of the exhaust pipe area to prevent ignition and potential fire hazards.

Electrical Safety: Ensure the power supply matches the heater's requirements (DC 12V-24V). Do not use damaged power cords or adapters. Disconnect power before performing any maintenance or cleaning.



2 Types of Controls

- ✓ 32~104°F Temperature Adjustment
- ✓ Timer Function
- ✓ Pre-Heating Function
- ✓ Constant Temperature Control
- ✓ ≥518°F Overheat Protection
- ✓ Voice Announcement



Image: Enhanced Security Features, including compliance certification, overheat protection, cautionary operation signage, and leak-resistant oil cap design.

3. PACKAGE CONTENTS

The VEVOR Diesel Air Heater package includes the following components:

- Main Diesel Air Heater Unit with 5L (1.3 Gal) Fuel Tank
- Outlet Pipe
- Exhaust Silencer
- Inlet Pipe
- Exhaust Pipe
- Heat Insulating Pipe Cover
- User Manual
- Air Filter
- Remote Control
- Installation Kit (clamps, screws, etc.)

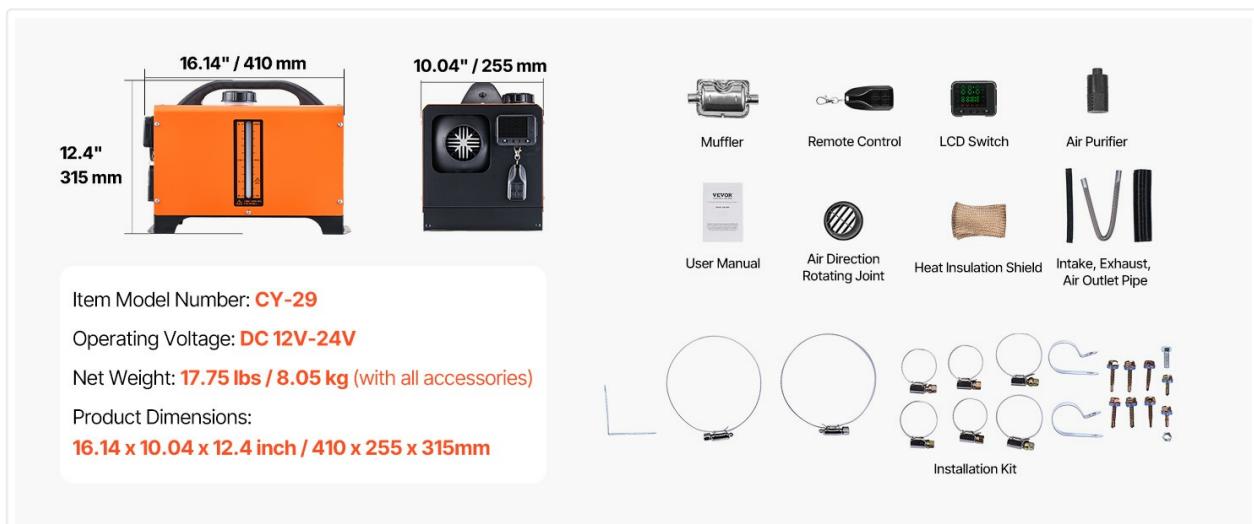


Image: Detailed diagram showing all components included in the VEVOR Diesel Air Heater package.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your diesel air heater. Refer to the detailed installation video for visual guidance.

Your browser does not support the video tag.

Video: Hcalory Handy 1S Diesel Heater installation video. This video provides a step-by-step guide on how to install the diesel heater components.

Installation Steps:

- 1. Remove the Remote Control:** Detach the remote control from its storage slot on the unit.
- 2. Install 1.5m Extension Cord:** Connect the provided 1.5-meter extension cord to the control panel for flexible placement.
- 3. Installation of Vent Elbow Pipe:** Securely attach the vent elbow pipe to the designated exhaust port using clamps and screws.
- 4. Installation of Heater Air Inlet:** Connect the air inlet hose to the heater's intake port, ensuring a tight seal with clamps.
- 5. Silencer Installation:** Attach the exhaust silencer to the exhaust pipe to reduce noise during operation.
- 6. Vent Pipe Installation:** Connect the vent pipe to the silencer and route it safely outside the heated area.
- 7. Floor Mat Installation:** Place the provided floor mats or feet to ensure stability and prevent direct contact with surfaces.
- 8. Heater Air Outlet Installation:** Attach the air outlet hose to the heater's hot air discharge port.
- 9. Outlet Pipe Installation:** Secure the outlet pipe to direct the heated air into the desired space.
- 10. Electrical Circuit Installation:** Connect the heater to a power source. Use the AC adapter for standard outlets or connect directly to a 12V/24V DC power supply (e.g., vehicle battery).
- 11. Open the Diesel Tank:** Unscrew the fuel cap to access the diesel tank.
- 12. Pour Diesel:** Carefully pour diesel fuel into the tank. Do not overfill.



Image: Diagram illustrating the fuel efficiency and internal components of the VEVOR Diesel Air Heater.

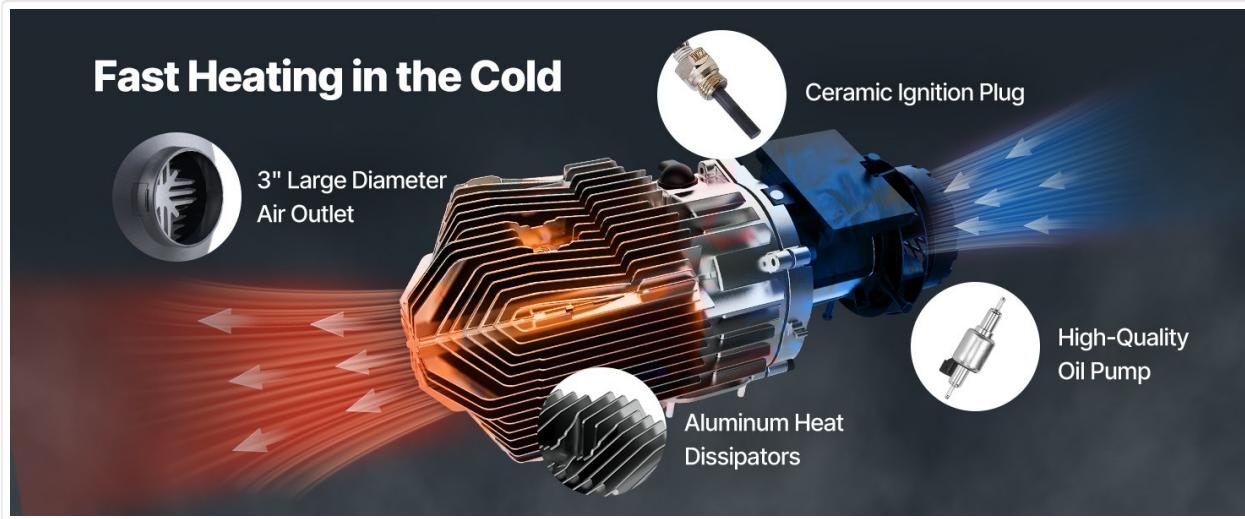


Image: Illustration of the VEVOR Diesel Air Heater operating smoothly in low temperature or high altitude areas.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the control panel and remote control for optimal use. The heater offers various settings for customized heating.

Your browser does not support the video tag.

Video: How to use diesel heater? This video demonstrates common operation procedures for the diesel heater.

Operation Steps:

- Power On:** When the device is off, press and hold the Power On/Off button for 2 seconds to turn it on. The screen will display an H-number, indicating it's powered on and heating up.
- Basic Setup:** When the device is on, briefly press the 'OK' key to view basic settings like shell temperature, power supply voltage, ambient temperature, timed startup/shutdown times, and current gear.
- Hand Pump Oil:** In standby mode, press and hold the Up Key and Down Key simultaneously for 3 seconds to manually pump oil. The oil pump icon will appear. Stop pumping when oil reaches the inlet position to prevent overfilling.
- Gear/Temperature Switching:** When the device is on, press and hold the Settings Key for 2 seconds to display the Celsius temperature. Use the Up Key and Down Key to adjust the temperature.
- Temperature Unit Switching:** Long press the Power button and the Up button for 2 seconds to switch between Fahrenheit and Celsius degrees. Repeat the operation to switch back.
- High Altitude Mode:** Simultaneously press the Settings Key and OK Key for 2 seconds to enable/disable high altitude mode. A mountain peak icon will appear/disappear.
- Timing Setting:** In standby mode, the screen displays the time. Press and hold the OK key for 2 seconds to enter the time option. Use the Power On/Off button to select hours/minutes and Up/Down keys to adjust. Confirm with OK. Set scheduled startup and shutdown times similarly.
- Remote Control Matching:** While in shutdown mode, press and hold the Power button and Down button for 2 seconds. Select a remote control slot (XFR1-XFR4) using directional keys. Press any button on the remote to match.
- Power Off:** When the device is on, press and hold the Power On/Off button for 2 seconds. The screen will show 'OFF'. Wait for the fan to stop completely before disconnecting power. Do not forcibly cut off power during shutdown to avoid damage and smoke.



Image: The remote control and square color digital display for convenient operation of the VEVOR Diesel Air Heater.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR Diesel Air Heater.

- **Cleaning:** Periodically clean the exterior of the heater with a soft, damp cloth. Ensure the air intake and exhaust ports are free from obstructions.
- **Fuel Filter:** Check the fuel filter regularly for any debris or blockages. Replace if necessary to maintain proper fuel flow.
- **Connections:** Inspect all hose and electrical connections for tightness and wear. Tighten loose connections and replace any damaged parts.
- **Storage:** When storing the heater for extended periods, drain any remaining fuel from the tank. Store in a dry, cool place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your VEVOR Diesel Air Heater, refer to the following common troubleshooting tips:

- **Heater Not Starting:** Check the power connection and ensure the battery voltage is sufficient. Verify there is enough fuel in the tank. Ensure the fuel line is not blocked and the oil pump is functioning.
- **No Heat Output:** Check if the air intake or exhaust is blocked. Ensure the temperature setting is above the ambient temperature.
- **Excessive Smoke:** This can occur if the heater is not properly shut down (power cut off prematurely). Allow the heater to complete its full shutdown cycle. Check for excessive oil pumping or incorrect fuel type.
- **Error Codes:** Refer to the user manual for specific error code meanings and corresponding troubleshooting steps.
- **Unusual Noise:** Check for loose components or obstructions in the fan. Ensure the silencer is correctly installed.

If problems persist after attempting these steps, please contact VEVOR customer support.

8. SPECIFICATIONS

Feature	Specification
Manufacturer	VEVOR
Model	Diesel Air Heater
Item Model Number	XMZ-D1
Power	8 kW
Voltage	DC 12V-24V
Product Dimensions	40 x 25 x 31 cm
Item Weight	8.95 kg
Fuel Tank Capacity	5L (1.3 Gallons)
Fuel Consumption	0.18-0.36 L/h
Applicable Altitude	Under 9843 ft (3000 m)
Noise Level	≤75dB
Country of Origin	China

9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided in your product packaging or visit the official VEVOR website.

Please retain your proof of purchase for any warranty claims.