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MUDIRO M-5S Evo-H

MUDIRO M-5S Evo-H Diesel Heater User Manual

Model: M-5S Evo-H

1. PRODUCT OVERVIEW

The MUDIRO M-5S Evo-H is an all-in-one diesel air heater designed for versatile heating applications in environments such as camping, RVs, tents, garages, and cabins. It features multi-voltage support (12V/24V/110V), advanced safety features including CO protection, automatic altitude adjustment, and multiple control options.



Figure 1: MUDIRO M-5S Evo-H Diesel Heater and included accessories.

2. SAFETY INFORMATION

- **Carbon Monoxide (CO) Protection:** This heater is equipped with a built-in carbon monoxide sensor that triggers an alarm and automatically shuts down the unit if unsafe CO levels are detected. The alarm threshold and duration are customizable.
- **Exhaust Ventilation:** Always ensure the exhaust pipe is properly installed and vented to the outdoors or a well-ventilated area to prevent the accumulation of carbon monoxide. The exhaust pipe becomes extremely hot during operation; avoid direct contact.
- **Fuel Type:** Use only diesel fuel. Ensure the correct fuel type is used to prevent damage and ensure safe operation.
- **Power Supply:** Ensure the correct voltage (12V, 24V, or 110V with adapter) is used.
- **Placement:** Position the heater on a stable, non-combustible surface. Maintain adequate clearance from flammable materials.



Figure 2: Display illustrating the Carbon Monoxide (CO) protection feature.

3. WHAT'S IN THE BOX

The MUDIRO M-5S Evo-H diesel heater package includes the following components:

- 1 x M-5S EVO-H Diesel Heater
- 1 x Remote Control
- 1 x TFT Switch (Control Panel)
- 1 x Adapter (for 110V AC power)
- 1 x Intake Pipe
- 1 x Exhaust Pipe
- 1 x Air Outlet Pipe
- 1 x Vent
- 1 x Silent Oil Pump
- 1 x Air Filter

- 1 x Installation Parts (hose clamps, screws, mounting brackets)
- 1 x User Manual
- 1 x TFT Switch Extension Cord

PACKING LIST

M-5S EVO-H
Diesel Heater



LCD Switch



Adapter



Remote Control



User Manual



Intake and Exhaust Pipe



Air Outlet Pipe



Elbow



Muffler



Air Filter



Installation Parts



LCD Switch Extension Cord

Figure 3: Complete packing list for the MUDIRO M-5S Evo-H Diesel Heater.

4. SETUP AND INSTALLATION

Follow these steps for proper setup and installation of your MUDIRO M-5S Evo-H Diesel Heater.

4.1. TFT Panel Extension Cable Installation

1. Carefully remove the TFT panel from the device.
2. Use a tool to remove the black cover located beneath the panel.
3. Disconnect the original connector.
4. Plug the male end of the extension cable into the female socket you just disconnected from.
5. Connect the LCD panel to the other end of the extension cable.

6. Securely mount the LCD panel in your preferred position using the extended cable.

4.2. Intake Pipe Installation

1. Attach the intake pipe to the 'IN' port on the heater using a hose clamp.
2. Secure the air filter to the other end of the intake pipe with a hose clamp.

4.3. Exhaust Pipe Installation

1. Attach the exhaust pipe to the 'OUT' port on the heater using a hose clamp.
2. Connect the muffler to the exhaust pipe using a hose clamp.
3. If needed, attach the elbow pipe to direct the exhaust flow. Ensure exhaust is vented outside.

4.4. Heater Air Outlet Installation

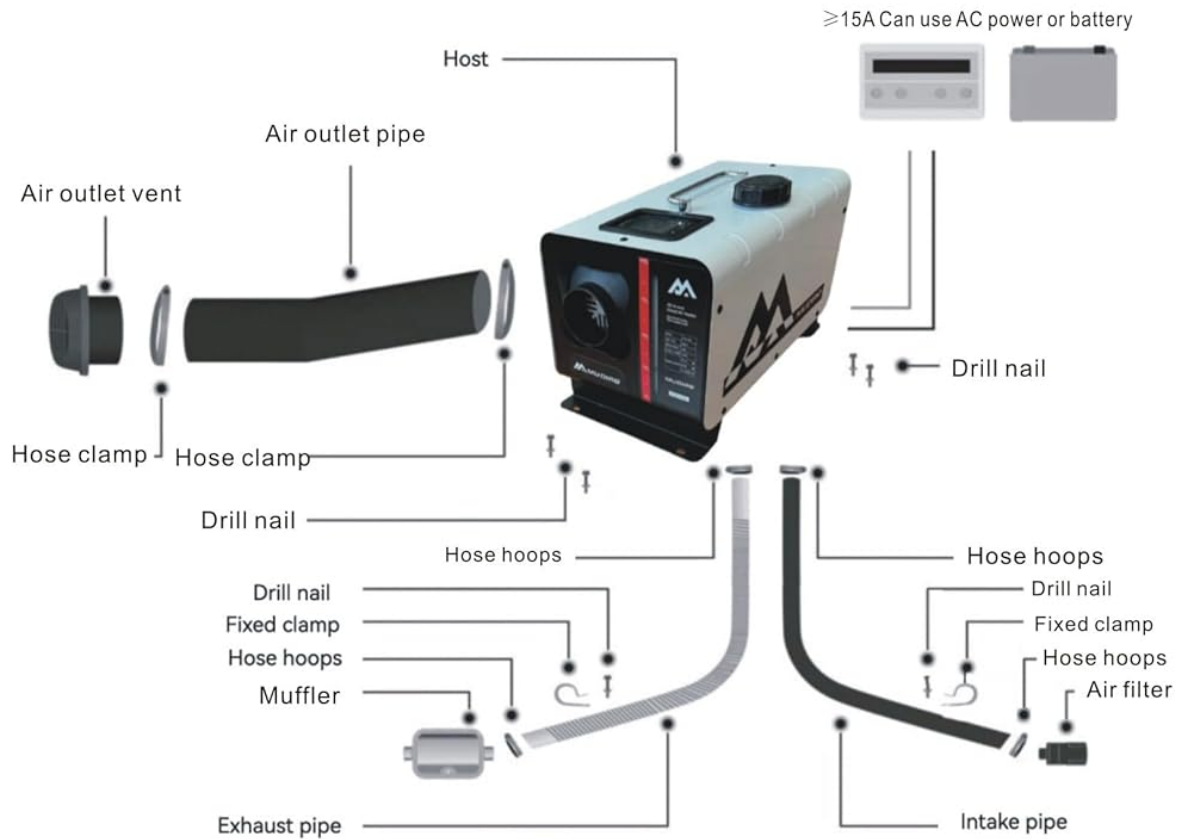
1. Attach the air outlet pipe to the front vent of the heater using a hose clamp.

4.5. Power Connection

- **DC Input (12V/24V):** Connect the provided battery terminal connectors to the DC input ports (red to positive, black to negative) on the side of the heater. Connect the other end to a compatible 12V or 24V battery.
- **AC Input (110V):** Use the provided 110V adapter. Plug the adapter into a standard household outlet and connect it to the AC input port on the side of the heater.

Installation diagram

Please use a 12V or 24V DC power supply to power your device, or use an AC to DC adapter, and the discharge current is recommended to be greater than 15A (the device needs to heat the glow plug when starting, and the operating current may reach 12A and last for 3~5 minutes).



Instructions for Installing the Extension Cable :

1. Take off the Panel:
Carefully take off the panel from the device.
2. Remove the Black Cover:
Use a tool to remove the black cover located beneath the panel.
3. Disconnect the Original Connector and Connect the Extension:
Plug the male end of the extension cable into the female socket you just disconnected from.
4. Complete the LCD Panel Connection:
Finally, route the cable and connect its opposite end to the port on the LCD panel.
5. Install the Panel at Your Desired Location:
Securely mount the LCD panel in your preferred position using the extended cable.

Figure 4: Installation diagram for the MUDIRO M-5S Evo-H Diesel Heater.

Video Description: This video demonstrates the unboxing and installation process for the MUDIRO Diesel Heater, including connecting the intake and exhaust pipes, air filter, and the TFT control panel extension cable. It also shows how to connect both DC and AC power sources.

5. OPERATING INSTRUCTIONS

The MUDIRO M-5S Evo-H offers multiple control methods for convenience.

5.1. Control Methods

- **TFT Panel:** Use the integrated TFT display and buttons for direct control over settings, temperature, and monitoring.
- **Remote Control:** The pre-paired remote control allows for convenient adjustment of settings from up to 98 ft away.
- **Bluetooth App Control:** Download the dedicated Bluetooth app to control the heater from your smartphone, also from up to 98 ft away.



Figure 5: Smart LCD Switch (TFT panel) with detailed labels for each function.

5.2. Key Features and Settings

- **Temperature Control:** Set your desired comfort temperature between 46.4°F (8°C) and 96.8°F (36°C). The heater features auto start/stop with a fluctuation range of $\pm 2^\circ\text{F}$ (1-2°C) for steady temperature.

- **Auto Altitude Adjustment:** The heater automatically compensates for altitudes up to 18,045 ft (5,500 m), adjusting the air-fuel mix for optimal efficiency. Real-time altitude is displayed on the TFT panel.
- **Quiet Operation:** Equipped with an upgraded noise-reducing fuel pump for minimal disturbance.
- **Timer Function:** Schedule heating on/off times for convenience.
- **Voice Broadcast:** Provides audible feedback for settings and status.



Figure 6: Auto-adaptive altitude intelligence ensures efficient operation at various elevations.



Figure 7: Visual representation of temperature control, gear settings, and blowing mode.

6. MAINTENANCE

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

- **Air Filter:** Periodically check and clean or replace the air filter to ensure proper air intake and prevent clogging.
- **Fuel System:** Ensure the fuel tank is free of contaminants. Use clean diesel fuel.
- **Exhaust System:** Inspect the exhaust pipe and muffler for any blockages or damage. Ensure secure connections.
- **General Cleaning:** Keep the exterior of the heater clean and free from dust and debris.

7. TROUBLESHOOTING

If you encounter issues with your MUDIRO M-5S Evo-H Diesel Heater, refer to the following common problems and solutions:

- **Error E8 (Flame Out) / E10 (Ignition Failure):** These errors often indicate a fuel pump issue or a problem with ignition. Check fuel levels, ensure the fuel pump is operating correctly, and inspect fuel lines for blockages.
- **Unclear Instructions:** If the provided manual is difficult to understand, refer to online video guides or contact customer support for clarification.
- **App Connectivity Issues:** Ensure Bluetooth is enabled on your device and the heater. If the app is not functioning, try reinstalling it or checking for updates. Some users have reported issues with Android app compatibility; ensure you are using the official app from a trusted source.
- **Excessive Noise:** While the heater features a noise-reducing pump, unusual or excessive noise may indicate a loose component or an issue with the fan. Inspect the unit for any loose parts.
- **Exhaust Pipe Overheating:** The exhaust pipe gets very hot. Ensure it is properly installed away from flammable materials and that there is sufficient airflow around it. Consider using longer exhaust piping if necessary to vent fumes further away.

8. SPECIFICATIONS

Brand	MUDIRO
Model	M-5S Evo-H
Item Weight	20.4 pounds
Product Dimensions	15 x 5 x 15 inches
Voltage	12 Volts (supports 12V, 24V, and 110V with adapter)
Special Features	Adjustable Height, Adjustable Temperature, Energy Efficient, Fast Heating, CO Protection, Auto Altitude Adjustment, Bluetooth/Remote/TFT Control

9. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official user manual included in your product package or visit the MUDIRO official website. Contact details for customer service are typically provided within the comprehensive user manual.