



SELF-POWERING PORTABLE DIESEL AIR HEATER

INSTRUCTION MANUAL



SCAN FOR SUPPORT



At Your Service



Web: www.yelodeer.com



Email: yelodeer@yelodeer.com

To Be the **#1 HEATING CABLE BRAND** for Homes

PRODUCT OVERVIEW

This Diesel Air Heater is a portable self-powering diesel air heater designed to provide reliable heat for outdoor, mobile, and temporary heating applications.

Unlike conventional diesel air heaters that require continuous external power, this heater uses thermoelectric power generation to convert combustion heat into electrical energy. The built-in batteries provide initial startup power. Once the heater reaches stable combustion, the self-generating system helps power the unit during operation.

This product is suitable for use in locations where household AC power is unavailable, limited, or inconvenient.

Intended Applications

- RVs, camper vans, and motorhomes
- Tent camping and outdoor recreation
- Ice fishing and hunting cabins
- Field operations and remote work
- Vehicle-supported expeditions and basecamps
- Emergency backup heating
- Military training and deployment
- Heating for trucks, boats, tents, and temporary shelters

Key Features

- Self-powering operation after stable ignition
- No continuous external power required during normal operation
- Portable all-in-one design
- Diesel combustion inside a sealed chamber
- 9-level heat adjustment
- Heat output from 1 kW to 4 kW
- Built-in 4.5 L fuel tank
- Up to 15 hours of runtime, depending on heat level and operating conditions
- Suitable for off-grid and outdoor heating applications

COMPONENTS



- | | | |
|---|-----------------------------|--------------------------|
| ① Main Unit (Host) × 1 | ② Portable Bag × 1 | ③ Outer Exhaust Pipe × 2 |
| ④ Inner Exhaust Pipes × 2 | ⑤ Exhaust Muffler × 1 | ⑥ Exhaust Elbow × 1 |
| ⑦ Air Inlet Pipe × 1 | ⑧ Air Outlet Pipe × 1 | ⑨ Air Duct Sleeve × 2 |
| ⑩ Rechargeable Lithium Batteries (2650 mAh) × 4 | ⑪ Battery Charging Dock × 1 | |
| ⑫ Cigarette Lighter Start Cable × 1 | ⑬ Car Window Cloth × 1 | |
| ⑭ Remote Controller × 1 | ⑮ Fuel Funnel × 1 | ⑯ User Manual × 1 |

Note: Package contents may vary slightly depending on product version. Please refer to the actual product received.

TECHNICAL SPECIFICATIONS

Item	Details
Model	YD-MH-04D
Heat Output	3,400–13,600 BTU/h / 1–4 kW
Heat Level Settings	9 levels
Rated Voltage	16.8V DC
Rated Power	< 40W
Fuel Consumption	0.026–0.148 gal/h / 0.1–0.56 L/h
Fuel Type	Diesel only
Fuel Tank Capacity	1.2 Gal / 4.5 L
Maximum Inlet Air Temperature	82°F / 28°C
Unit Weight	31.97 lb / 14.5 kg
Dimensions	16.5 × 10.4 × 13.0 in / 420 × 265 × 330 mm
Heater Operating Temperature	-40°F to 104°F / -40°C to 40°C
Fuel pump Operating Temperature	-40°F to 122°F / -40°C to 50°C

Before First Use

Read this manual carefully before installing, starting, refueling, servicing, transporting, or storing the heater.

Before use:

1. Inspect the heater and all accessories for shipping damage.
2. Place the heater on a stable, level, heat-resistant surface.
3. Check that the fuel tank cap, air valve, fuel lines, exhaust connections, and air duct connections are secure.
4. Open the air valve on the fuel tank lid before startup to prevent vacuum inside the tank.

5. Use clean diesel fuel only.
6. Keep the fuel tank and fuel cap clean during refueling.



Important Safety Warnings

WARNING: Improper installation or operation can cause fire, burns, carbon monoxide exposure, fuel leakage, serious injury, or death.

- Use diesel fuel only. Do not use gasoline, alcohol, kerosene, mixed fuels, or any unapproved flammable liquid.
- Exhaust gas must be discharged outdoors. Carbon monoxide is colorless and odorless and can cause serious injury or death.
- Never allow exhaust gas to enter a tent, vehicle, cabin, RV, or any occupied area.
- A working carbon monoxide alarm is strongly recommended whenever the heater is used near a tent, RV, vehicle, cabin, shelter, boat cabin, sleeping area, or any occupied space.
- The exhaust pipe, muffler, and nearby surfaces become extremely hot during operation. Keep them away from fabric, bedding, paper, plastic, fuel containers, and other combustible materials.
- Do not touch the exhaust pipe, muffler, or hot surfaces during or immediately after operation.
- Allow the heater to complete its shutdown cooling cycle before moving, packing, covering, or storing it.
- Do not refuel while the heater is running or hot.
- Stop operation immediately if fuel leakage, abnormal odor, heavy smoke, unusual noise, or an error code occurs.
- Do not block the air inlet or air outlet.
- Do not modify the heater, fuel system, battery system, exhaust system, air ducting, controls, or wiring.
- Do not operate the heater where flammable vapors, gases, or combustible dust may be present.
- Keep children and pets away from the heater during operation.
- This heater is for temporary portable heating use only. It is not intended as a permanent heating system for residential dwellings.

INSTALLATION

Follow the installation steps below before operating the heater. Make sure all connections are tight and secure before use.

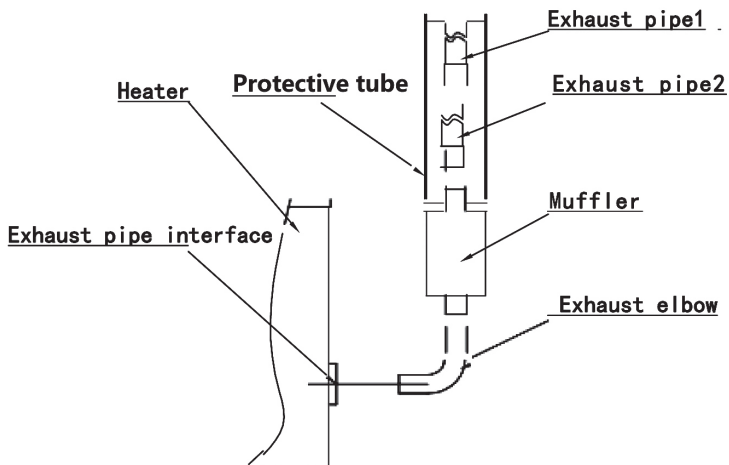
Step 1: Battery Installation

- Install the batteries into the battery compartment according to the correct polarity marks (+/-).
- After powering on the unit, check the voltage shown on the LCD display. If the voltage is below 15.0V, charge the batteries before ignition.
- The batteries are used to provide initial startup power. After stable combustion is reached, the heater's self-generating system helps power the unit during operation.



Step 2: Assemble the Exhaust Pipe

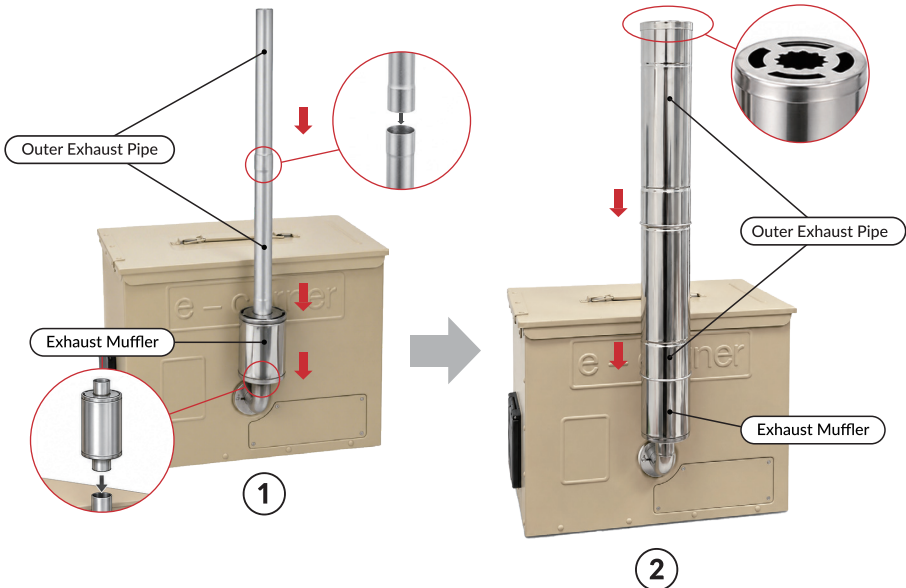
WARNING: Exhaust gas must be routed outdoors. Never discharge exhaust gas into an occupied space.



1. Connect exhaust elbow into heater exhaust port. Insert the raised locking end into the exhaust outlet, then rotate it clockwise 90 degrees to secure it.



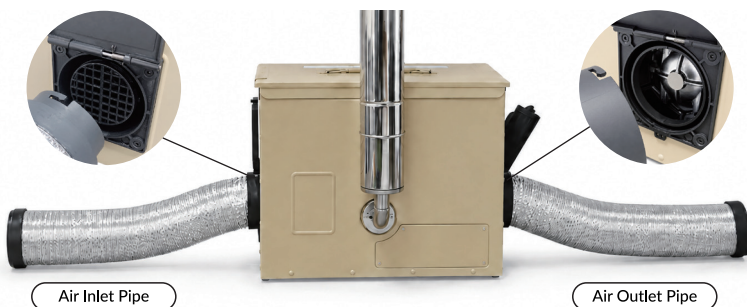
2. Install the muffler, inner exhaust pipe sections, and exhaust pipe sections in sequence. Make sure each connection is fully seated to prevent exhaust leakage.



(If the heater is used near a tent, vehicle, cabin, RV, or other enclosed area, use a proper exhaust outlet or wall-through adapter to route all exhaust gas outside the occupied area.)

Step 3: Install the Air Inlet and Outlet Pipes

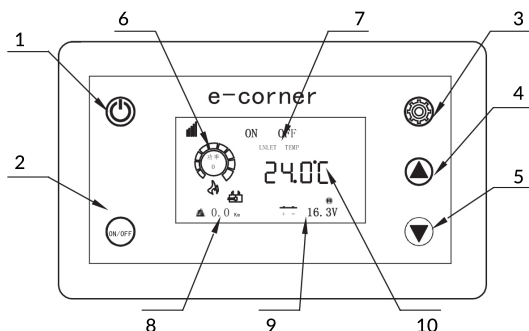
- If the heater is placed outside the space to be heated, connect the air inlet and outlet pipes as shown in the installation diagram.
- Install the air duct sleeves on the air ducts to reduce heat loss and improve heating efficiency.
- Make sure the air inlet and outlet are not blocked. Keep the ducts away from sharp edges, hot surfaces, and combustible materials.



OPERATION

Control Panel Overview

The control panel shows heater status, heat level, voltage, altitude, and temperature information.



Button Functions

No.	Button	Function
1		Connect / disconnect the power supply
2		Turn on / off the heater
3		Switch between °F / °C
4		Increase heat output level
5		Decrease heat output level

Display Indicators

No.	Indicator	Description
6		Displays current fuel power level
7	ON OFF	Displays heater operating status (ON/OFF)
8	0.0 Km	Displays current altitude reading
9	+ - 16.3V	Displays battery voltage
10	24.0°C	Displays current ambient temperature

Starting the Heater

1. Place the heater on a stable, level, heat-resistant surface.
2. Make sure the exhaust system is properly connected and routed outdoors.
3. Open the air valve on the fuel tank lid.
4. Check that there is enough diesel fuel in the tank.
5. Install fully charged batteries.
6. Press the main power button to switch on the power.
7. Press and hold the  button for 3 seconds to start ignition.
8. After ignition, allow the heater to run for at least 5 minutes until combustion is stable.
9. Adjust the heat output level using the  or  buttons.

Power on

Press  to switch on the power.

Ignition

Press and hold  for 3s to start the heater.

Power Adjustment

Press  or  to adjust the heat output level. Level 1 is the minimum output; Level 9 is the maximum.

Powering Off

Press and hold  for 3s to turn off the heater.

Note: Leave power connected while the fan runs for 3 to 5 minutes to cool the unit. After shutdown and cooling, close the air valve on the fuel tank lid to help prevent fuel spillage during transport or storage.

Heat Level Adjustment

Press  or  to adjust the heat output.

- Level 1 is the minimum output.
- Level 9 is the maximum output.

Fuel consumption and runtime will vary depending on the selected heat level, ambient temperature, altitude, ventilation, and operating conditions.

Power Management

This heater requires battery power for startup. The self-powering function begins only after ignition and stable combustion.

Follow these guidelines:

1. Always install the batteries before use.
 2. Check the voltage on the LCD display before starting.
 3. If the voltage is below 15.0V, charge the batteries before ignition.
 4. If the batteries are low and a charger is not available, use the 12V cigarette lighter start cable for ignition power.
 5. After 5 minutes or more of stable operation, the heater can operate through its self-generating system.
 6. Keep the air valve on the fuel tank cap open during operation.
-

Shutting Down the Heater

1. Press and hold  for 3 seconds to turn off the heater.
2. Do not disconnect power immediately.
3. Allow the fan to continue running for 3 to 5 minutes to cool the unit.
4. Wait until the shutdown cooling cycle is complete.
5. After the heater has cooled, close the air valve on the fuel tank lid to help prevent fuel spillage during transport or storage.

Do not move, pack, cover, or store the heater until it has completely cooled.

Refueling

1. Turn off the heater.
2. Allow all hot parts to cool completely.
3. Refuel only in a well-ventilated area.
4. Use clean diesel fuel only.
5. Keep fuel away from hot surfaces, sparks, open flames, and combustible materials.
6. Wipe up any spilled fuel before restarting the heater.

TROUBLESHOOTING

If an error code appears on the LCD display, refer to the table below. If the issue continues after checking the recommended items, stop using the heater and contact customer support.

Code	Possible Cause	Corrective Action
E-01	Abnormal voltage	Check battery polarity. Charge or replace the batteries.
E-02	Temperature sensor failure	Check whether the air inlet or outlet is blocked. Check whether the sensor plug is loose.
E-03	Glow plug failure	Check whether the glow plug connection is loose.
E-04	Fuel pump failure	Check whether the fuel pump plug is loose. Check whether the fuel pump is blocked.
E-05	Combustion fan failure	Check whether the combustion motor plug is loose. Check whether the combustion fan is operating abnormally.
E-06	Self-test failure	Check whether the battery voltage is too low. Charge the batteries and restart the heater.
E-07	Ignition failed	Check whether the fuel tank air valve is open. Check whether there is enough diesel fuel in the tank.
E-08	Flameout during combustion	Check for fuel leakage. Check whether the fuel pump is working and whether fuel is being supplied properly.
E-09	Communication failure	Turn off the power, wait, and restart the heater.

MAINTENANCE

- Ensure the battery is sufficiently charged before each use to guarantee proper heater startup.
- When the heater will not be used for an extended period, remove the batteries and charge them at least once every 3 months.
- Check the fuel tank level before each use to ensure continuous operation.
- Use only clean, high-quality diesel fuel. Contaminated fuel may clog the fuel system.
- Inspect all pipe connections and seals regularly for signs of wear or damage. Replace as necessary.
- Clean the exterior of the heater with a dry cloth. Do not use water or solvents.
- Store the heater in a dry, well-ventilated area away from direct sunlight and moisture.

WARRANTY

This product has passed strict quality inspection before shipment. A **1-year limited warranty** is provided against manufacturing defects.

The warranty does not cover damage caused by:

- Improper installation
- Misuse or abuse
- Accidents
- Unauthorized modification
- Failure to follow the instructions in this manual

For warranty service or technical support, please contact our customer service team with your order details, product photos, and a detailed description of the issue.



Website: www.yelodeer.com



Email: yelodeer@yelodeer.com



SCAN FOR SUPPORT

To Be the **#1 HEATING CABLE BRAND** for Homes