DOCAS DPH-004

DOCAS 12V 8000W Diesel Air Heater DPH-004 Instruction Manual

Model: DPH-004

1. Introduction

This manual provides essential instructions for the safe operation, installation, and maintenance of your DOCAS 12V 8000W Diesel Air Heater. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in fire, explosion, electric shock, or serious injury.

- **Ventilation:** Always ensure adequate ventilation when operating the heater. Exhaust fumes contain carbon monoxide, which is odorless and deadly. Never operate the heater in enclosed spaces without proper exhaust ventilation to the outside.
- **Carbon Monoxide Detector:** It is highly recommended to use a certified carbon monoxide detector when operating this heater, especially in enclosed environments like RVs, boats, or cabins.
- **Fuel:** Use only diesel fuel. Do not use gasoline or other volatile fuels. Ensure the fuel tank is securely sealed.
- **Installation:** Ensure all connections, especially exhaust pipes, are securely fastened and leak-free. Improper installation can lead to exhaust leaks into the heated space.
- **Clearances:** Maintain proper clearances from combustible materials. Do not block air intake or outlet vents.
- **Electrical:** Ensure the 12V power supply is correctly connected and fused. Do not overload the electrical system.
- **Children and Pets:** Keep children and pets away from the heater during operation.
- **First Use:** Run the heater in a well-ventilated area for at least 5 hours during its initial operation to burn off any manufacturing residues from the pipes and internal components.

3. Package Contents

Verify that all components are present in your package:

- 1 x DOCAS Diesel Air Heater Unit
- 1 x LCD Switch/Monitor
- 1 x Intake Pipe
- 1 x Air Outlet Pipe
- 1 x Air Filter
- 1 x Remote Control (requires 1 x 27A 12V battery, not included)
- 1 x Muffler
- 1 x Exhaust Pipe
- 1 x Installation Kit (includes screws, clamps, and mounting bracket)



Image: Overview of the DOCAS Diesel Air Heater and its complete set of accessories, including the main heater unit, inlet/outlet pipes, air filter, remote control, installation kit, and muffler.

4. Product Overview

The DOCAS 12V 8000W Diesel Air Heater is an all-in-one parking heater designed to provide warmth in various applications such as trucks, boats, buses, RVs, and motorhomes. It features an integrated fuel tank, control panel, and heating unit for compact installation.



Image: Detailed diagram showing the internal components like the combustion chamber, heat exchanger, controller, and air fans, along with external parts such as the oil tank, LCD monitor, and air outlet.

Key Components:

- **Heater Unit:** Contains the combustion chamber, heat exchanger, and air circulation system.
- **LCD Monitor:** Displays operational status, temperature, and allows for settings adjustments.
- **Remote Control:** Enables convenient operation from a distance.
- **Fuel Tank:** Integrated 5L capacity for diesel fuel.
- **Air Intake/Outlet:** For drawing in cold air and expelling hot air.

- **Exhaust System:** Includes exhaust pipe and muffler for safe expulsion of combustion gases.

5. Setup and Installation

Proper installation is crucial for the safe and efficient operation of your heater. If you are unsure about any step, consult a qualified professional.

General Installation Steps:

1. **Mounting:** Securely mount the heater unit on a stable, non-combustible surface using the provided installation kit. Ensure it is level and has sufficient clearance around it.
2. **Exhaust System:** Connect the exhaust pipe to the heater and route it safely to the outside of the vehicle/structure. Ensure the exhaust pipe is angled downwards to prevent water ingress and is free from kinks or obstructions. Secure all connections with clamps. The muffler should be installed in the exhaust line.
3. **Air Intake/Outlet:** Connect the air intake pipe and hot air outlet pipe. Ensure the air intake is clear of debris and the hot air outlet directs heat effectively into the desired space.
4. **Fuel Connection:** Fill the integrated fuel tank with clean diesel fuel. Ensure the fuel cap is tightly secured.
5. **Electrical Connection:** Connect the heater to a 12V DC power source. Ensure correct polarity (red to positive, black to negative) and that the circuit is adequately fused.
6. **Remote Control Battery:** Install one 27A 12V battery (not included) into the remote control.

Note: Some users have reported challenges with exhaust pipe routing due to limited clearance. Modifications or raising the unit may be necessary in certain installations.



Image: Diagram illustrating the dimensions of the DOCAS Diesel Air Heater unit, including its length, width, height, and the dimensions of the flexible intake/exhaust pipes.

6. Operating Instructions

The heater can be operated via the integrated LCD monitor or the remote control.

LCD Monitor Controls:



Image: Close-up view of the LCD control panel with buttons labeled for Setting, OK, Raise, ON/OFF, and Lower. Also shows the remote control unit.

- **ON/OFF Button:** Press to power the heater on or off.
- **Setting Button:** Access various settings such as temperature, fan speed, and timer.
- **Raise/Lower Buttons:** Adjust values (e.g., temperature, fan speed) within settings.
- **OK/Confirm Button:** Confirm selections or exit menus.

Remote Control:

The remote control allows you to operate the heater from a distance of up to 10 meters.

- **Matching Remote and LCD:** In standby mode, press the 'Setting' button and the 'Raise' button simultaneously to display '-PE'. Long press the remote control's ON/OFF button for matching.
- **Functions:** Typically includes ON/OFF, temperature adjustment, and mode selection. Refer to the remote's specific buttons for detailed functions.

Starting the Heater:

1. Ensure the fuel tank is filled and all connections are secure.
2. Press the ON/OFF button on the LCD monitor or remote control.

3. The heater will initiate a startup sequence, including pre-heating the glow plug and fuel pump activation.
4. Once combustion begins, hot air will be expelled from the air outlet.

Stopping the Heater:

1. Press the ON/OFF button.
2. The heater will enter a cool-down cycle to prevent overheating and damage. Do not disconnect power during this cycle.
3. Once the cool-down cycle is complete, the heater will power off.

7. Maintenance

Regular maintenance ensures the longevity and safe operation of your diesel air heater.

- **Cleaning:** Periodically clean the exterior of the heater and ensure the air intake and outlet vents are free from dust and obstructions.
- **Fuel Filter:** Check and clean or replace the fuel filter as needed to prevent fuel system blockages.
- **Exhaust System:** Inspect the exhaust pipe and muffler for any damage, corrosion, or leaks. Ensure all clamps are tight.
- **Electrical Connections:** Verify that all electrical connections are secure and free from corrosion.
- **Glow Plug:** If the heater has difficulty starting, the glow plug may need inspection or replacement.

8. Troubleshooting

This section addresses common issues you might encounter.

- **Heater Not Starting:**
  - Check 12V power supply and connections.
  - Ensure sufficient fuel in the tank.
  - Inspect fuel lines for blockages or air bubbles.
  - Check the glow plug for functionality.
- **Error Codes (e.g., E-7):** Refer to the LCD monitor's specific error code meanings. E-7 often indicates a communication error between the controller and other components. Try restarting the unit or checking connections.
- **Weak Heat Output:**
  - Ensure air intake and outlet are not obstructed.
  - Check fuel quality and flow.
- **Excessive Smoke/Odor:**
  - Ensure proper ventilation.
  - Check for exhaust leaks, especially at connections.
  - Verify fuel quality and proper combustion. If persistent, discontinue use and inspect the combustion chamber.
- **Remote Control Not Working:**
  - Replace the 27A 12V battery.
  - Ensure the remote is paired with the heater (see Operating Instructions).
  - Ensure you are within the 10-meter operating range.

9. Specifications

Feature	Specification
Brand	DOCAS
Model Number	DPH-004
Voltage	12 Volts
Wattage	5 KW (Note: Product title states 8000W, but specifications list 5KW. Please verify actual wattage with seller if critical.)
Item Weight	19.96 pounds
Package Dimensions	19 x 19 x 8 inches
Fuel Type	Diesel
Control	LCD Monitor, Remote Control

10. Warranty and Support

For warranty information, technical support, or replacement parts, please contact the seller directly through your purchase platform. Keep your purchase receipt or order number handy for faster service.

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