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Sunster 8KW Diesel Heater

Sunster 8KW Portable Diesel Heater User Manual

Model: 8KW Diesel Heater | For 12V & 24V Systems

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your Sunster 8KW Portable Diesel Heater. Please read this manual thoroughly before using the product and retain it for future reference. Proper use ensures optimal performance and longevity of your heater.



Image: The Sunster 8KW Portable Diesel Heater, showing the main unit, LCD control panel, and remote control. This image illustrates the complete product package.

SETUP AND INSTALLATION

1. Unpacking and Component Identification

Carefully unpack all components from the packaging. Verify that all items listed in the 'What's in the Box' section are present and undamaged. If any parts are missing or damaged, contact customer support immediately.

- Diesel heater (with LCD)
- Remote switch
- User manual (this document)
- Installation Accessories (fuel pump, fuel line, exhaust pipe, air intake pipe, clamps, etc.)

PRODUCT INFORMATION

Various diesel mechanical vehicles such as cars, buses, recreational vehicles, trucks, engineering vehicles, etc.



Fuel	Diesel Only	Rated Power	8KW
Rated Voltage	12V&24V	Fuel Consumption	0.1-0.48L/Hour
Working Ambient Temperature	-104--+104FT	ADJUSTABLE POWER FREE SETTING Meet your different needs, but also can be set arbitrarily fuel, electricity, temperature	
Start-up Power Consumption	9-11A		
Working Power Consumption	1-3A		

Image: Product dimensions are displayed, indicating the heater's physical size for installation planning.

2. Installation Guidelines

The heater is designed for installation in various vehicles such as campervans, trucks, boats, and cars. Ensure the installation location is well-ventilated and away from flammable materials. Secure the heater firmly to prevent movement during operation.

- **Fuel Supply:** Connect the fuel line from the fuel tank to the heater's fuel pump. Ensure all connections are secure and leak-free. Use diesel fuel only.
- **Exhaust System:** Install the exhaust pipe to direct exhaust gases safely outside the vehicle. Ensure no exhaust fumes can enter the cabin.
- **Air Intake:** Connect the air intake pipe. Ensure it draws clean air and is not obstructed.
- **Electrical Connection:** Connect the heater to a 12V or 24V power source, ensuring correct polarity and sufficient amperage. The heater requires 9-11A for start-up and 1-3A for working power.

1 GAL DIESEL FOR 1 NIGHT

215 sp.ft / 20 m² Broad Range Long-lasting Heating

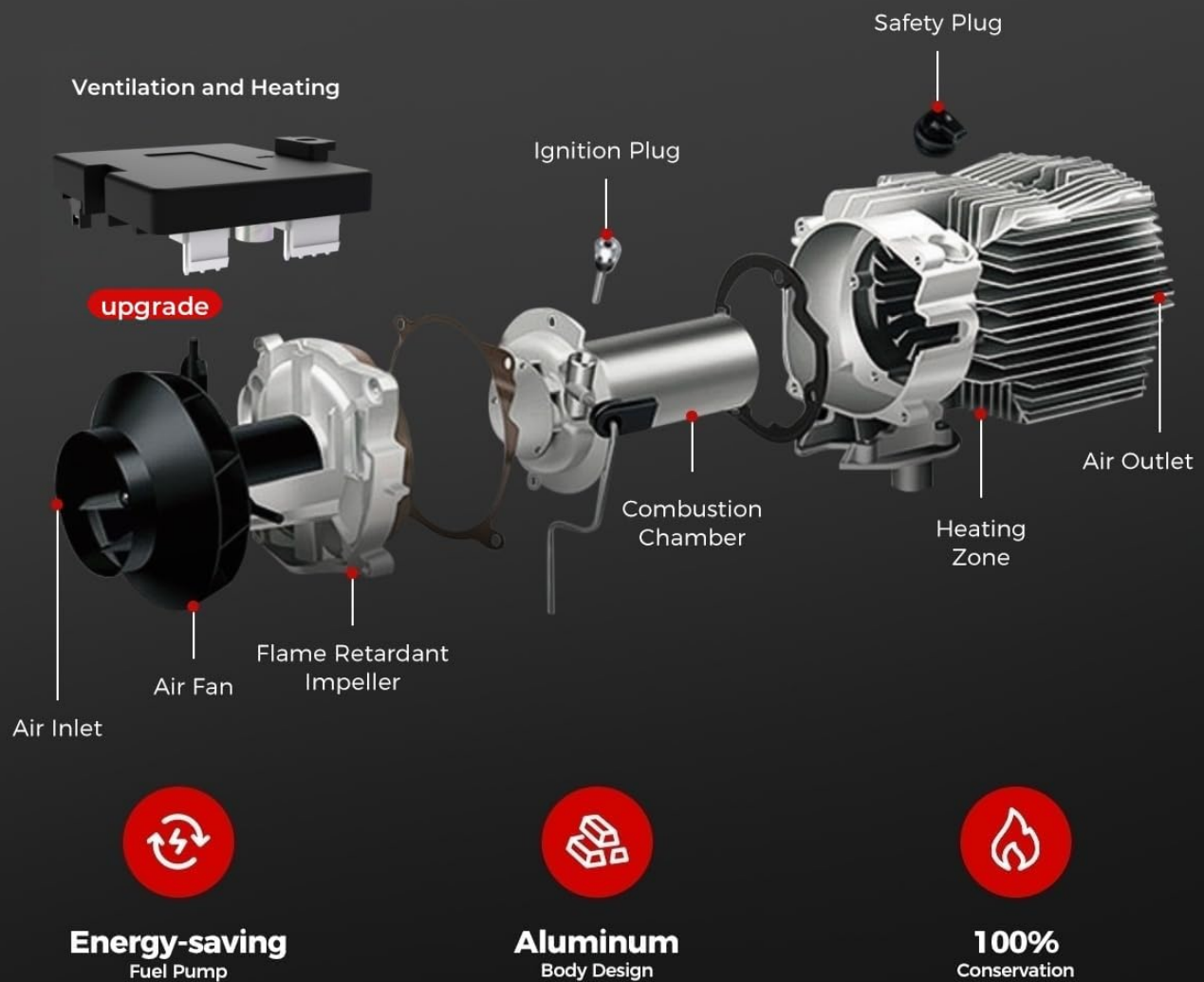


Image: An exploded diagram illustrating the internal components of the diesel heater, including the air inlet, air fan, flame retardant impeller, combustion chamber, ignition plug, heating zone, and air outlet. This helps in understanding the heater's construction.

OPERATING INSTRUCTIONS

1. Basic Operation

The heater can be controlled via the LCD monitor, remote control, or Bluetooth APP.

- **Power On/Off:** Press the 'ON/OFF' button on the LCD panel or remote control.
- **Temperature Adjustment:** Use the control knob or arrow buttons to set the desired temperature (8-36 °C / 46.4-96.8 °F).
- **Mode Selection:** Navigate through the menu to select different operating modes.

INTELLIGENT LCD PANLE & REMOTE CONTROL

Pre-heat your car before entering it



24 Hours
Timing Function



Turbo Heat
Mode



Auto
Climate Control



Ventilation
Mode



Bluetooth
App Control



LCD SWITCH

- 24-hour timing function
- Temperature / Gear regulation
- Language switching (German, English, Russian)

Image: The intelligent LCD control panel and remote control for the Sunster diesel heater. The LCD displays timing, temperature, and various modes, while the remote offers simple on/off functionality.

2. LCD Monitor Functions

The LCD monitor provides detailed information and control options:

- **24-Hour Timing Function:** Set specific times for the heater to turn on or off.
- **Temperature / Gear Regulation:** Adjust heating intensity.
- **Language Switching:** Options include German, English, Russian.
- **Ventilation Mode:** Circulates air without heating.
- **Turbo Heat Mode:** Provides rapid heating.
- **Automatic Start-Stop:** Maintains a constant temperature by automatically turning on/off.

3. Bluetooth App Control

Download the 'Sunster' app from Google Play (Android) or the App Store (iOS) to control your heater remotely.

- **Pairing:** Follow the app's instructions to pair your device with the heater.
- **Remote Adjustment:** Adjust settings, create heating plans, and monitor performance from your smartphone.

CONTROL SMARTER AND MORE CONVENIENT

Android: search 'Sunster' in Google Play.
IOS: search 'Sunster' in App store.



Timing
Function



Language
Settings



Gear
Settings



Automatic
start & stop



Blow
Mode



Image: A smartphone screen showing the Sunster app interface, which allows for timing, language settings, gear settings, automatic start & stop, and blow mode control. This demonstrates the convenience of app-based operation.

4. Automatic Start-Stop Function

This feature allows the heater to maintain a set temperature. When the ambient temperature reaches the set point, the heater will automatically shut off. It will reactivate when the temperature drops below the set point, ensuring consistent warmth and energy efficiency.

Intelligent constant temperature control

Time setting calibration system



Set the timing time based on the customer's local time

Image: A graphic demonstrating the automatic start-stop function, showing the heater stopping at 35°C and starting at 30°C to maintain a desired temperature range. This highlights the intelligent temperature control.

MAINTENANCE

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

1. Routine Cleaning

- **Exterior:** Wipe the exterior with a damp cloth. Do not use abrasive cleaners or solvents.
- **Air Intake/Outlet:** Ensure the air intake and outlet grilles are free from dust and debris. Clean gently with a soft brush or vacuum.

2. Fuel System Care

- **Fuel Filter:** Periodically check and clean or replace the fuel filter to prevent blockages.
- **Fuel Quality:** Always use clean, high-quality diesel fuel to prevent carbon buildup and damage to the combustion system.

3. Storage

If storing the heater for an extended period, ensure the fuel tank is empty and the heater is clean and dry. Store in a cool, dry place.

TROUBLESHOOTING

Refer to the table below for common issues and their solutions. If the problem persists, contact customer support.

Problem / Error Code	Possible Cause	Solution
Heater does not start	No power, low fuel, clogged fuel line, faulty ignition.	Check power connections, ensure sufficient fuel, inspect fuel line for blockages, check ignition plug.
Error Code E04	Fuel pump disconnected or faulty.	Check fuel pump connection. If connected, the pump may be faulty and require replacement.
Low heat output	Low power setting, air intake/outlet obstructed, poor fuel quality.	Increase power setting, clear obstructions, use clean diesel fuel.
Excessive smoke	Poor combustion, incorrect fuel-air mixture, carbon buildup.	Ensure proper ventilation, check fuel quality, consider professional cleaning.
Unusual noise	Loose components, fan obstruction, fuel pump issue.	Inspect for loose parts, clear fan area, check fuel pump for proper operation.

SPECIFICATIONS

Feature	Detail
Model	8KW Diesel Heater
Rated Power	8KW
Rated Voltage	12V & 24V
Fuel Type	Diesel Only
Fuel Consumption	0.16-0.45 L/H
Working Ambient Temperature	-40°C to 40°C (-104°F to 104°F)
Start-up Power Consumption	9-11A
Working Power Consumption	1-3A
Control Methods	LCD Monitor, Remote Control, Bluetooth APP

