

Sunster 8KW Diesel Air Heater

Sunster 12/24V 8KW All-in-One Diesel Air Heater Instruction Manual

Model: 8KW Diesel Air Heater

INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Sunster 12/24V 8KW All-in-One Diesel Air Heater. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

SAFETY INFORMATION

- The exhaust pipe becomes particularly hot during operation. Ensure it is routed away from the oil pipe and any flammable materials.
- Ensure the outdoor exhaust pipe is clear of flammable materials and has sufficient empty space around it.
- Do not force power off midway during operation. Allow the machine to complete its shutdown cycle to properly dissipate heat.
- The heater includes multiple protections such as overheating prevention, short circuit prevention, reverse connection prevention, and overvoltage prevention.
- Ensure proper ventilation when operating the heater.

PACKAGE CONTENTS

Before beginning installation, verify that all components are present in the package:



Image: The main Sunster 8KW Diesel Heater unit in orange and black, accompanied by various accessories including an LCD switch, remote control, power adapter, battery power cord, air outlet pipe, intake pipe, exhaust pipe, silencer, connection holders, fixture accessories, and an air filter.

- Main Heater Unit (12/24V 8KW Diesel Air Heater)
- LCD Switch
- Remote Control
- Power Adapter (110-240V AC)
- Battery Power Cord (12/24V DC)
- Air Outlet Pipe
- Intake Pipe
- Exhaust Pipe
- Silencer
- Connection Holders
- Fixture Accessories Set
- Air Filter
- Instruction Manual

SETUP AND INSTALLATION

Follow these steps for proper installation of your diesel air heater. Refer to the installation video for visual guidance.

Installation Video Guide

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Video: A detailed installation guide for the Sunster All-in-One Diesel Air Heater, demonstrating unpacking, securing the unit, connecting exhaust and intake pipes, and power connections.

1. **Unpacking:** Carefully open the box and verify all contents against the package list.
2. **Secure Placement:** Install the base clips on the heater. Place the heater on a stable, elevated surface (e.g., wood blocks) and secure it in place using screws.
3. **Exhaust Pipe Installation:** Connect the exhaust pipe. Ensure it is routed away from the oil pipe and leads directly to the outside. Maintain a safe distance from any flammable materials.
4. **Intake Pipe and Air Filter Installation:** Attach the intake pipe and air filter. Secure them with clamps.
5. **Power Connection:** Connect the power supply. The red wire is positive, and the black wire is negative. The heater supports both 12/24V DC and 110-240V AC power sources.
6. **Fueling:** Add diesel fuel to the tank.

Important Note:

The machine will automatically dissipate heat for half an hour after being turned off. Do not force power off midway, as this can prevent proper heat discharge and potentially damage the unit.

OPERATING INSTRUCTIONS

Your Sunster Diesel Air Heater offers multiple control options and modes for optimal heating.

LCD Switch Operation

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Video: A demonstration of the 2302B LCD switch operations, including power on/off, gear adjustment, numerical adjustments, basic mode settings, engineering mode, remote control matching, manual oil pumping, and Bluetooth connection.

Power On/Off

- **To Turn On:** In shutdown state, press the "ON/OFF" button on the LCD panel or remote control.
- **To Turn Off:** In power-on state, press the "ON/OFF" button on the LCD panel or remote control.

Mode Selection and Adjustment

- **Switching Modes:** Press the [knob] on the LCD panel to cycle through different modes (Temperature Control Mode, Constant Temperature Mode, Gear Mode).
- **Numerical Adjustment:** Rotate the [knob] clockwise to increase values (e.g., temperature, gear) and counter-clockwise to decrease values.
- **Constant Temperature Control:** The heater features automatic start/stop functionality, activating when the temperature drops and shutting off when the set temperature is reached.
- **Ventilation Mode:** Circulates air to dissipate heat in warmer conditions.
- **Turbo Heat Mode:** Provides rapid heating when needed.
- **Timing Function:** Set specific operating times for the heater.

Bluetooth APP Control

- Download the 'Sunster' app from your mobile device's app store (Google Play for Android, App Store

for iOS).

- Ensure Bluetooth is enabled on your mobile device.
- Open the app and search for Bluetooth devices. Select your heater to connect.
- Once connected, you can adjust settings, create heating plans, and monitor performance directly from the app.

MAINTENANCE

- Regularly inspect the exhaust and intake pipes for any blockages or damage.
- Keep the air filter clean to ensure efficient operation.
- Check fuel lines and connections for leaks periodically.
- Ensure the heater unit is free from dust and debris.
- For long-term storage, ensure the fuel tank is empty and the unit is clean.

TROUBLESHOOTING

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

- **No Power:** Check power connections (12/24V DC or 110-240V AC) and ensure they are secure. Verify the power source is active.
- **Heater Not Starting:** Ensure there is sufficient diesel fuel in the tank. Check for any error codes displayed on the LCD monitor.
- **Error Codes:** The LCD monitor can display up to 8 fault codes. Refer to the "2302B LCD Switch Operation" video for how to check CO value and engineering mode data which might indicate issues. Consult the full manual (if available) for specific fault code meanings.
- **Insufficient Heat:** Check the selected operating mode and temperature/gear settings. Ensure the air intake and outlet are not obstructed.
- **Unusual Noise:** Inspect for loose components or obstructions in the fan or pump. The upgraded silent fuel pump should operate at ≤ 35 dB.
- **Exhaust Issues:** Ensure the exhaust pipe is clear and properly routed outside, away from any obstructions or flammable materials.

SPECIFICATIONS

Feature	Detail
Product Model	8KW Diesel Air Heater
Heater Power	8000W
Rated Voltage	12V/24V DC and 110-240V AC
Fuel Type	Diesel
Fuel Consumption (L/h)	0.26-0.48L/h
Heating Area	Up to 20 square meters
Tank Capacity	5L / 1.3 Gallons

Noise Level	≤ 35 dB (silent fuel pump)
Dimensions (L x W x H)	38cm x 25.5cm x 27.5cm (14.9in x 10in x 10.8in)
Weight	Approximately 19.66 pounds

PRODUCT INFORMATION

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



PRODUCT MODEL	D1-A2302B	Rated voltage	12V/24V/110-240V
Heater Power	8000W	Startup Current	13A
Fuel Gasoline	Diesel	Rated Current	3A
Fuel consumption(L/h)	0.26-0.48L/H	Heating Area	15-20m ²
Power consumption	0.036KW/H	Tank Capacity	5L/1.3 gal

Image: Detailed product information including dimensions (25.5cm/10in width, 27.5cm/10.8in height, 38cm/14.9in length) and a table of specifications for the Sunster 8KW Diesel Air Heater.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Sunster customer service through the official channels provided at the point of purchase or on the manufacturer's website.

Please retain your proof of purchase for any warranty claims.

