

Sunster 02

Sunster 8KW Diesel Air Heater Model 02 User Manual

Comprehensive instructions for safe operation, installation, and maintenance.

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Sunster 8KW Diesel Air Heater, Model 02. This heater is designed as a volatile atomizer, operating independently of the engine system, and is powered by 12V, 24V, or 110-240V DC/AC power supplies. It features automatic program control and is suitable for various applications, including vehicle cabins, outdoor camping, and preheating engines in temperatures as low as -40 °C. Please read this manual thoroughly before installation and use.

2. SAFETY INFORMATION

Always prioritize safety when operating the diesel air heater. Failure to follow these instructions may result in property damage, injury, or death.

- Ensure proper ventilation when operating the heater, especially in enclosed spaces, to prevent carbon monoxide poisoning.
- Do not operate the heater near flammable materials or liquids.
- Keep children and pets away from the heater during operation.
- Always use the specified diesel fuel type. Using incorrect fuel can damage the unit and pose a fire hazard.
- Regularly inspect the exhaust system for leaks or blockages.
- Ensure all electrical connections are secure and correctly wired according to the voltage requirements (12V, 24V, or 110-240V).
- Do not modify the heater or its components. Use only original replacement parts.
- Disconnect power before performing any maintenance or cleaning.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- Sunster 8KW Diesel Air Heater Unit
- LCD Control Panel
- Remote Control
- AC-DC Power Adapter (for 110-240V use)

- Flexible Air Outlet Pipe (2m/6.5ft)
- Silencer
- Bottom Bracket
- Internal Circulation System Kit
- Fuel Tank (integrated or separate, visible capacity)
- Mounting Hardware and Accessories



Figure 1: Main components of the Sunster 8KW Diesel Air Heater, including the heater unit, LCD controller, remote, and power adapter.

4. SETUP AND INSTALLATION

Proper installation is crucial for the heater's performance and safety. Choose a stable, level surface for placement.

4.1 Power Connection

- **For Home Use (110-240V AC):** Connect the provided AC-DC power adapter to the heater and then to a standard electrical outlet. This allows for safer and more convenient home operation.
- **For Vehicle Use (12V/24V DC):** The heater features an automatic voltage circuit, adapting to both 12V and 24V vehicle battery systems. Connect the heater directly to your vehicle's battery using appropriate wiring.

Ensure correct polarity.



Figure 2: The heater supports both AC 110-240V power outlets and DC 12V/24V vehicle battery connections, offering flexible wiring options.

4.2 Exhaust and Air Duct Installation

- Attach the flexible air outlet pipe to the heater's hot air outlet. Ensure it is securely fastened.
- Install the silencer on the exhaust pipe to reduce noise.
- Position the exhaust pipe so that fumes are safely directed away from any enclosed spaces or vehicle interiors.
- Utilize the internal circulation system kit for optimal heat distribution and retention.

RAPID ASSEMBLY FOR SAFER HEATING



Figure 3: Illustration of rapid assembly components, including the 2m/6.5ft flexible air outlet pipe, silencer, bottom bracket, and internal circulation system kit.

4.3 Securing the Unit

- The heater comes with a sturdy bottom bracket for enhanced stability and easier installation.
- Ensure the unit is placed on a stable surface and secured to prevent accidental tipping.

MORE CONVENIENT AND SAFER

**Comes with bottom bracket , Easier installation and
Avoid the Exhaust Gas Blockage**



Sunster



Others

Figure 4: The Sunster heater features a robust bottom bracket for increased stability and easier installation, preventing exhaust gas blockage.

5. OPERATING INSTRUCTIONS

Your Sunster diesel heater offers multiple control methods for convenience.

5.1 LCD Control Panel

- The integrated LCD panel allows direct control over heater functions.
- **24-hour Timing Function:** Set specific start and stop times for automated operation.
- **Temperature / Gear Regulation:** Adjust the desired temperature or heating power level.
- **Language Switching:** Select your preferred language (e.g., German, English, Russian).
- **Auto Start-Stop:** Enable automatic operation based on set temperature.
- **Ventilation Mode:** Operate the unit as a fan without heating.
- **Turbo Heat Mode:** For rapid heating when needed.

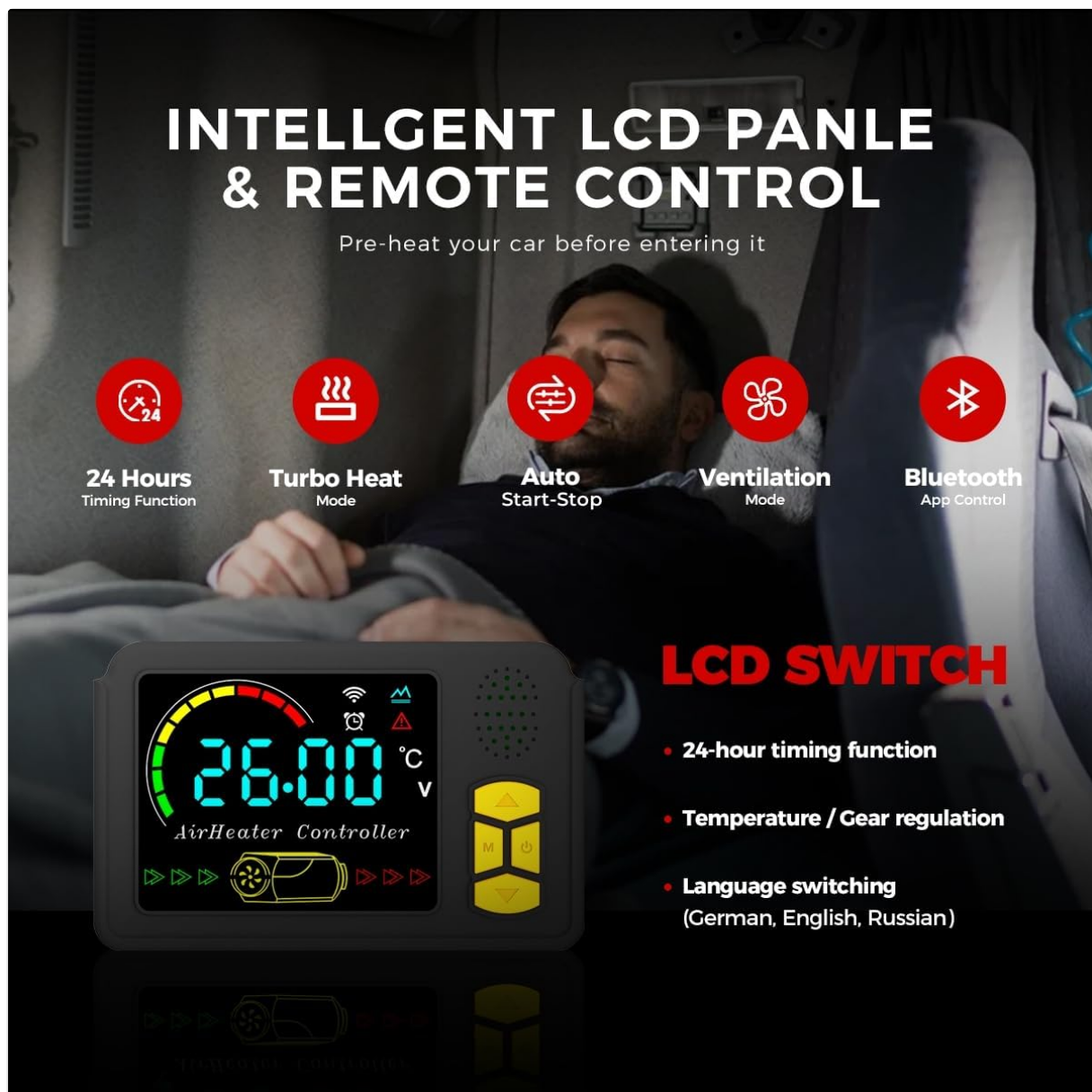


Figure 5: The intelligent LCD panel and remote control offer features like 24-hour timing, temperature regulation, language switching, auto start-stop, and ventilation mode.

5.2 Remote Control

Use the remote control to preheat or defrost your vehicle from a distance, enhancing convenience.

5.3 Bluetooth APP Control

- Download the "Sunster" app from Google Play (Android) or the App Store (iOS).
- Connect your smartphone to the heater via Bluetooth within an 80m range.
- The app allows for remote control of functions such as timing, language settings, gear settings, automatic start & stop, and blow mode.

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**



Figure 6: Control your heater smartly and conveniently using the dedicated Sunster smartphone app, offering timing, language, gear, auto start/stop, and blow mode functions.

5.4 Fuel Efficiency

The Sunster diesel heater is designed for energy efficiency, with a low fuel consumption rate of 0.11-0.48 L/H. The control unit precisely manages fuel pump injection frequency and intake air quantity to optimize combustion and extend service life.



Figure 7: The heater boasts a maximum combustion power of 8KW and 96% combustion efficiency, with a fuel consumption of 0.16-0.45 L/H and a 5L visible fuel capacity.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your heater.

- **Fuel System:** Use clean, high-quality diesel fuel. Periodically check the fuel filter and fuel lines for blockages or leaks.
- **Air Intake/Exhaust:** Ensure the air intake and exhaust pipes are free from obstructions. Clean any debris or dust from the air filter.
- **General Cleaning:** Keep the exterior of the heater clean. Do not use abrasive cleaners.
- **Electrical Connections:** Periodically check all electrical connections for tightness and corrosion.
- **Storage:** If storing the heater for an extended period, ensure the fuel tank is empty and the unit is clean and dry.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions. If problems persist, contact customer support.

Problem	Possible Cause	Solution
Heater does not start	No power, low fuel, clogged fuel line, air in fuel system.	Check power connection, refill fuel, inspect fuel lines, bleed air from fuel system.
Low heat output	Clogged air intake/exhaust, incorrect temperature setting, low fuel quality.	Clean air passages, adjust temperature, use recommended fuel.
Excessive smoke	Poor combustion, incorrect fuel-air mixture, faulty glow plug.	Ensure proper ventilation, check fuel quality, contact service if issue persists.
Unusual noise	Loose components, fan obstruction, worn bearings.	Inspect for loose parts, clear obstructions, contact service for internal issues.

8. SPECIFICATIONS

Key technical specifications for the Sunster 8KW Diesel Air Heater Model 02.

Feature	Detail
Brand	Sunster
Model	02
Power Output	8 KW
Voltage Compatibility	12V DC, 24V DC, 110-240V AC
Fuel Type	Diesel
Fuel Consumption	0.11-0.48 L/H
Combustion Efficiency	Up to 96%
Control Methods	LCD Panel, Remote Control, Bluetooth APP
Operating Temperature	Down to -40 °C
Item Weight	10.4 Kilograms
Package Dimensions	46.29 x 36.2 x 29.1 cm

ENHANCED SAFETY

Meet safety certification standards



Fuel Tank capacity Visible



Include AC-DC Power adapter



Increase The Foot stand at The Bottom



Upgraded Hot Air outlet Duct

Figure 8: Overview of enhanced safety features, including a visible fuel tank capacity, included AC-DC power adapter, increased foot stand for stability, and an upgraded hot air outlet duct.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Sunster customer service. Keep your purchase receipt as proof of purchase.

Contact details can typically be found on the product packaging or the official Sunster website.

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Wireless Heater

User Manual

Sunster 8KW Wireless Heater User Manual - Operation, Setup, and Troubleshooting

Comprehensive user manual for the Sunster Wireless Heater (8KW models), covering operation, setup, and troubleshooting for 12V, 24V, and 110-240V systems. This guide details model specifics (S-A2013SL, S-A2018), functions, internal structure, fault codes, and maintenance tips for your vehicle's heating system.

YAH-A2409P



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Sunster TB10pro 8KW Diesel Air Heater User Manual and Technical Guide

Comprehensive user manual for the Sunster TB10pro 8KW Diesel Air Heater, covering operation, settings, fault codes, and mobile app control for vehicles and RVs. Includes model YAH-A2409P.

<div> DZ06 Bluetooth Switch Air Heating Version Instructions</div> <div></div>	<p>Sunster DZ06 Bluetooth Switch: Air Heating Version User Manual & Instructions</p> <p>Comprehensive user manual for the Sunster DZ06 Bluetooth Switch, Air Heating Version. This guide details key functions, mode settings, remote control pairing, manual oil pump operation, timer settings, parameter adjustments, and troubleshooting fault codes for the 8KW 12V/220V Diesel Parking Air Heater controller.</p>
<div> 2.0 Smart Heater User Manual</div>	<p>Sunster 2.0 Smart Heater User Manual: Operation, Settings, and Troubleshooting</p> <p>Comprehensive user manual for the Sunster 2.0 Smart Heater, detailing its functions, internal structure, operation modes for S-A2200BS and S-A2302B models, settings, troubleshooting codes, and company information.</p>
<div> PLUMBING HEATER</div> <div></div>	<p>Sunster Plumbing Heater Operation Instructions and Installation Guide</p> <p>Comprehensive operation instructions and installation guide for the Sunster 5KW Plumbing Heater, designed for various vehicles including cars, SUVs, pickup trucks, and vans. Covers technical specifications, working principles, installation procedures, operation, troubleshooting, and maintenance.</p>
<div> Diesel Air Car Parking Heater User Manual</div> <div></div>	<p>Sunster Diesel Air Car Parking Heater User Manual - Installation, Operation, and Safety Guide</p> <p>This user manual provides comprehensive instructions for the Sunster Diesel Air Car Parking Heater, covering installation, operation, safety precautions, troubleshooting, and Bluetooth app control. It is designed for users seeking to understand and effectively use their heating device.</p>