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SILVEL KF620026US-04HDR-001

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

Model: KF620026US-04HDR-001 | Brand: SILVEL

Introduction

This manual provides essential information for the safe and efficient operation of your SILVEL 8KW 12V/24V All-in-One Portable Diesel Air Heater. Please read all instructions carefully before use and retain this manual for future reference.



Figure 1: SILVEL 8KW Portable Diesel Air Heater, showing its compact design and integrated controls.

Safety Information

- Ensure adequate ventilation when operating the heater to prevent carbon monoxide buildup.
- Do not block the air intake or exhaust outlets.
- Keep flammable materials away from the heater.
- Always use diesel fuel as specified.
- Regularly inspect the exhaust pipe for any damage or blockages.
- Do not operate the heater if any part is damaged or malfunctioning.

Package Contents

Verify that all items listed below are included in your package:

- Diesel Heater Unit
- Remote Control
- LCD Panel Control
- Air Filter
- Vent
- Inlet/Outlet Pipes
- Installation Kit (clamps, screws, etc.)
- User Manual



Figure 2: Visual representation of the included components in the SILVEL Diesel Heater package.

Setup

The SILVEL Diesel Heater features an all-in-one plug-and-play design, minimizing complex installation. Follow these steps for initial setup:

1. **Connect Exhaust Pipe:** Securely attach the flexible exhaust pipe to the heater's exhaust outlet using the provided clamp.

Ensure a tight seal to prevent smoke leakage.

2. **Connect Air Outlet Pipe and Vent:** Attach the air outlet pipe to the heater's air output. Install the vent at the end of the air outlet pipe. Use clamps to secure connections.
3. **Fill Fuel Tank:** Unscrew the fuel cap on top of the unit. Carefully pour diesel fuel into the 4L tank. The anti-leak design with internal threading helps prevent spills during transport. Monitor the fuel level through the integrated window.
4. **Power Connection:**
    - For 12V/24V DC operation (vehicles): Connect the red wire to the positive terminal and the black wire to the negative terminal of your vehicle's battery or a compatible power supply.
    - For AC operation (home/shop): Use a compatible AC-to-DC power adapter (not included with all models) to connect the heater to a standard wall outlet.



Figure 3: Illustrates the 4L fuel tank with its spill-proof cap and fuel level window.



Figure 4: Diagram showing recommended installation locations for trucks, excavators, RVs, and SUVs.

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Video 1: Official product video demonstrating the SILVEL Diesel Heater's features and setup process.

Operating Instructions

Your diesel heater can be controlled via the integrated LCD screen or the remote control.

Using the LCD Control Panel:

- **Power On/Off:** Press the power button to turn the unit on or off.
- **Temperature Adjustment:** Use the up/down arrows to set your desired temperature between 8°C (46.4°F) and 36°C (96.8°F).

- **Timer Settings:** Access the timer function to schedule operation times.
- **Altitude Compensation:** The heater features built-in automatic altitude compensation, adjusting operation for heights up to 11,483 feet (3,500 meters) without manual settings.

Using the Remote Control:

- The remote control allows for convenient power on/off, temperature adjustment, and timer settings from a distance.



Figure 5: Close-up of the LCD control panel and the remote control for easy operation.



Figure 6: Demonstrates the heater's functionality in low temperature and high altitude areas, tested up to 3500 meters.

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Video 2: Official product video highlighting the 110V/12V/24V power options and various features of the SILVEL Diesel Heater.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your diesel heater.

- **Fuel Filter:** The heater is equipped with a washable oil filter. Regularly clean or replace the filter to remove impurities from the diesel and maintain heating efficiency.
- **Exterior Cleaning:** Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Exhaust System:** Periodically check the exhaust pipe and muffler for any carbon buildup or blockages. Clear any obstructions to ensure safe operation.
- **Storage:** When not in use for extended periods, ensure the fuel tank is empty and store the heater in a dry, protected area.



Figure 7: Internal view highlighting the durable oil pump and other components, emphasizing the importance of maintenance.

Troubleshooting

If you encounter issues with your heater, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Heater not turning on	No power, low voltage, or empty fuel tank.	Check power connections, ensure sufficient voltage (12V/24V), and verify fuel level.
Reduced heat output	Clogged fuel filter, blocked air intake/exhaust, or incorrect temperature setting.	Clean or replace fuel filter, clear any blockages, and adjust temperature settings.
Excessive smoke	Blocked exhaust pipe or improper fuel combustion.	Ensure exhaust pipe is clear and not bent. Check fuel quality.
Error codes on LCD	Specific system malfunction (e.g., E1 for low voltage, E3 for other issues).	Refer to the detailed error code section in the full user manual (if available) or contact customer support.

Specifications

Feature	Detail
Brand	SILVEL
Model Name	KF620026US-04HDR-001
Wattage	8 KW
Fuel Type	Oil (Diesel)

Feature	Detail
Power Source	AC/DC
Voltage	12V / 24V
Fuel Tank Capacity	4 Liters
Fuel Consumption	0.12 to 0.50 liters per hour
Temperature Range	8°C–36°C (46.4°F–96.8°F)
Noise Level	Less than 45 dB
Altitude Compensation	Up to 11,483 feet (3,500 meters)
Material	Aluminium
Item Weight	17.6 pounds
Product Dimensions	7.48 x 13.18 x 17.12 inches

Warranty and Support

SILVEL provides exclusive after-sales warranty service for this diesel heater. This includes consultation on common issues and troubleshooting during product use. For any concerns regarding subsequent maintenance or product operation, please contact SILVEL customer support for full assistance.
For further assistance, please visit the official SILVEL Store on Amazon.

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