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SILVEL KF620027US-02HDR-001

SILVEL 8KW All-in-One Portable Diesel Air Heater Instruction Manual

Model: KF620027US-02HDR-001

1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation, setup, and maintenance of your SILVEL 8KW All-in-One Portable Diesel Air Heater. Please read this manual thoroughly before initial use and retain it for future reference.



Image 1.1: The SILVEL 8KW All-in-One Portable Diesel Air Heater and its main components.

2. Safety Information

Adhering to safety guidelines is crucial for preventing injury and damage. Always follow these precautions:

- **Ventilation:** Ensure adequate ventilation when operating the heater, especially in enclosed spaces, to prevent carbon monoxide buildup.
- **Fuel:** Use only diesel fuel. Do not use gasoline or other volatile fuels.
- **Placement:** Place the heater on a stable, non-flammable surface. Maintain a safe distance from combustible materials.
- **Exhaust:** Ensure the exhaust pipe is properly installed and vented to the outside to prevent exhaust fumes from entering the heated area.
- **Children and Pets:** Keep children and pets away from the operating heater.
- **Power Supply:** Connect the heater to the correct power supply (12V/24V DC or 110V AC via adapter) as specified.

- **Maintenance:** Perform regular maintenance as described in this manual. Disconnect power before any maintenance.

3. Package Contents

Verify that all items are present in the package:

- Diesel Heater Unit
- Remote Control
- LCD Panel Control
- Air Filter
- Exhaust Silencer
- Vent
- Inlet/Outlet Pipes
- Installation Kit
- 110V AC Power Adapter
- 12V/24V DC Power Cable
- User Manual (this document)



Image 3.1: Visual representation of the package contents.

4. Product Overview and Features

The SILVEL 8KW All-in-One Portable Diesel Air Heater is designed for versatile heating in various environments, including vehicles, garages, and outdoor setups. Key features include:

- **All-in-One Design:** Integrated unit for easy portability and immediate use.
- **Wide Voltage Compatibility:** Supports 12V/24V DC for vehicles and 110V AC for stationary use.
- **Adjustable Temperature:** Customizable warmth with a temperature range of 8°C–36°C (46.4°F–96.8°F).
- **Low Noise Operation:** Equipped with an upgraded silent oil pump and muffler for quiet performance (below 45 dB).
- **Fuel Efficiency:** Low fuel consumption, approximately 0.12 to 0.50 liters per hour, with a 9L-10L fuel tank providing up to 24 hours of continuous heating.
- **Anti-Leak Design:** Features an internal thread fuel cap to prevent spills during transport.
- **Smart Control:** Includes an LCD display and remote control for easy temperature and timer settings.
- **Automatic Altitude Compensation:** Adjusts operation for altitudes up to 3,500 meters (11,483 feet).



Image 4.1: The 9L fuel tank with its spill-proof cap and integrated oil filter.



Image 4.2: Illustration of the heater's low noise operation, rated below 45 dB.



Image 4.3: Fuel efficiency comparison highlighting low consumption rates.



Image 4.4: The heater's capability to operate effectively at high altitudes.



Image 4.5: Demonstration of stable heat control for comfortable temperatures.



Image 4.6: Versatile application of the heater for indoor and outdoor use.

5. Setup

Follow these steps to set up your diesel heater:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Install Exhaust Pipe:** Connect the exhaust pipe to the designated port on the heater. Secure it with the provided clamp.
3. **Install Air Outlet Pipe and Vent:** Attach the air outlet pipe to the heater's hot air outlet. Then, connect the vent to the end of the air outlet pipe and secure it.
4. **Connect Power:**
    - For 110V AC power, use the provided AC power adapter.
    - For 12V/24V DC power (e.g., vehicle battery), use the DC power cable. Ensure correct polarity.
5. **Fill Fuel Tank:** Open the fuel cap and carefully fill the 9L-10L tank with diesel fuel. Ensure the cap is securely tightened to prevent leaks.

Your browser does not support the video tag.

Video 5.1: This video demonstrates the installation of the exhaust pipe, air outlet pipe, vent, and power connections for the SILVEL Diesel Heater.

6. Operating Instructions

The heater can be controlled using the LCD panel or the remote control.

6.1. LCD Panel Control

The LCD panel allows for direct control and monitoring of the heater's functions.

- **Power On/Off:** Press the power button to turn the unit on or off.
- **Temperature Adjustment:** Use the up/down arrows to set the desired temperature within the 8°C–36°C

range.

- **Timer Setting:** Access the timer function to schedule operation times.
- **Monitoring:** The display shows current temperature, power level, and other operational status indicators.



Image 6.1: The LCD control panel and remote control for the heater.

6.2. Remote Control

The remote control provides convenient operation from a distance.

- **Power On/Off:** Use the ON/OFF buttons to start or stop the heater.
- **Temperature/Power Adjustment:** Use the up/down buttons to adjust the heating level or temperature.

6.3. Automatic Altitude Compensation

The heater features built-in automatic altitude compensation. It will adjust its operation automatically when used at different altitudes, up to 3,500 meters, without requiring manual settings.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your heater.

- **Air Filter:** Periodically check and clean the air filter to prevent dust and debris from affecting performance. Replace if damaged.
- **Fuel System:** Inspect fuel lines and connections for any signs of leaks or damage. Ensure the fuel tank is clean and free of contaminants.
- **Exhaust System:** Check the exhaust pipe and silencer for blockages or damage. Ensure proper ventilation.
- **General Cleaning:** Keep the exterior of the heater clean. Do not use abrasive cleaners.
- **Storage:** When not in use for extended periods, drain the fuel tank and store the heater in a dry, safe place.

8. Troubleshooting

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

- **Heater Not Starting:** Check power connections, ensure sufficient fuel in the tank, and verify that the fuel cap is properly sealed.
- **No Heat Output:** Confirm the heater is powered on and the temperature setting is appropriate. Check for any blockages in the air intake or outlet.
- **Excessive Smoke:** This may indicate improper combustion. Check fuel quality, air filter cleanliness, and exhaust system for blockages.
- **Unusual Noises:** Investigate the source of the noise. Ensure all components are securely fastened.
- **Error Codes:** If the LCD displays an error code, consult the specific error code section in the full user manual (if available) or contact customer support.

For persistent issues, contact SILVEL customer service.

9. Specifications

Specification	Value
Brand	SILVEL
Model Name	KF620027US-02HDR-001
Power Output	8KW
Voltage	110V/12V/24V
Fuel Tank Capacity	9L-10L
Fuel Consumption	0.12 to 0.50 liters per hour
Material	Aluminium
Item Weight	26.2 pounds
Product Dimensions	11.22 x 11.22 x 15.35 inches
UPC	720141063602

10. 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 maintenance or operation, please contact SILVEL customer support for full assistance.
For further support, please visit the official SILVEL website or contact their customer service department directly.

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