

- Manuals.plus /
- › SILVEL /
 - › SILVEL 8KW All-in-One Portable Diesel Air Heater User Manual (Model KF620027US-01HDR-001)

SILVEL KF620027US-01HDR-001

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

Model: KF620027US-01HDR-001

Brand: SILVEL

1. INTRODUCTION

The SILVEL 8KW All-in-One Portable Diesel Air Heater is designed to provide efficient and reliable heating for various environments, including vehicles (cars, campers, RVs, trucks, boats) and stationary locations (homes, garages, shops). This unit features an integrated design, an LCD screen, and remote control for convenient operation. It supports multiple power inputs (110V/12V/24V) and includes automatic altitude compensation for consistent performance.

9L LARGE FUEL TQNK

leak-proo foil cap

unaffected by rough road conditions

Unique designed cover with interna threaded, nomore oilspil



SPILL-PROOF



Oil Filter

Washable, filter impurities in diesel and improve the heating efficiency



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

Video 1.1: Overview of the SILVEL 8KW Diesel Heater, highlighting its features and applications.

2. SAFETY INFORMATION

- **Carbon Monoxide Hazard:** Operate the heater only in well-ventilated areas. Ensure exhaust gases are directed safely outside and away from any air intakes. Never operate in enclosed spaces without proper ventilation.
- **Fire Hazard:** Keep flammable materials at a safe distance from the heater. Do not block air intake or exhaust vents. Use only diesel fuel.
- **Electrical Safety:** Ensure correct voltage (110V AC or 12V/24V DC) is used. Do not use damaged power cords or adapters.
- **Fuel Handling:** Fill the fuel tank in a well-ventilated area. Avoid overfilling. Secure the fuel cap tightly to prevent spills, especially during transport.
- **Hot Surfaces:** The heater's exhaust pipe and certain parts become very hot during operation. Avoid direct contact.
- **Children and Pets:** Keep children and pets away from the operating heater.
- **Altitude Compensation:** The heater features automatic altitude compensation. Do not attempt to manually adjust settings.

for altitude unless specifically instructed.

3. PACKAGE CONTENTS

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

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

PACKAGE ECONTENT



LCD Panel Control



Remote Control



Vent



Adapter



Installation Parts



Exhaust Silencer



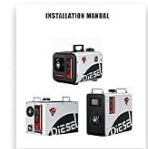
Air Filter



Inlet/Outlet pipes



DC12V/24V
Power Cable



User Manual

Image 3.1: All components included in the SILVEL Diesel Heater package.

4. SETUP

The SILVEL Diesel Heater is designed for plug-and-play use. Follow these steps for initial setup:

- Unpack Components:** Carefully remove all items from the packaging and verify against the package contents list.
- Connect Exhaust Pipe:** Attach the exhaust pipe to the designated port on the heater unit using the provided clamp. Ensure a secure, airtight connection.
- Install Silencer (Optional):** If using the exhaust silencer, attach it to the end of the exhaust pipe.
- Connect Air Outlet Pipe and Vent:** Attach the air outlet pipe to the hot air outlet on the front of the heater. Secure it with a clamp. Then, attach the vent to the end of the air outlet pipe.
- Fueling:** Open the fuel cap and carefully fill the 9L-10L tank with diesel fuel. Do not overfill. Ensure the cap is securely tightened to prevent leaks. The anti-leak design with internal threading helps prevent spills during movement.
- Power Connection:**
 - For 110V AC operation (home, garage, shop): Connect the provided 110V AC adapter to the heater and then to a

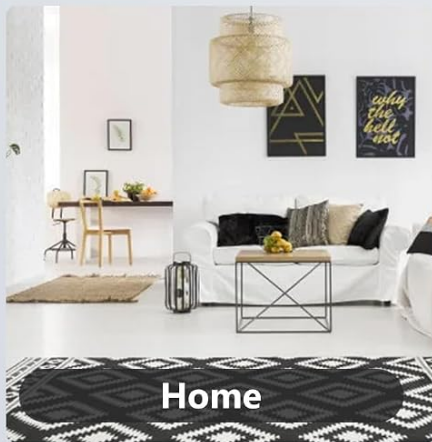
standard wall outlet.

- For 12V/24V DC operation (car, RV, boat): Connect the red and black wires of the DC power cable to the corresponding terminals on the heater (red to positive, black to negative). Connect the other end to your vehicle's 12V or 24V power source.

7. **Placement:** Position the heater on a stable, level surface. Ensure adequate clearance around the unit for proper airflow and to prevent fire hazards. Direct the hot air vent towards the area to be heated. Ensure the exhaust pipe is routed safely outside and away from any windows, doors, or air intakes.

SUITABLE FOR INDOOR & OUTDOOR USE ALIKE

110V-120V AC



12V/24V DC

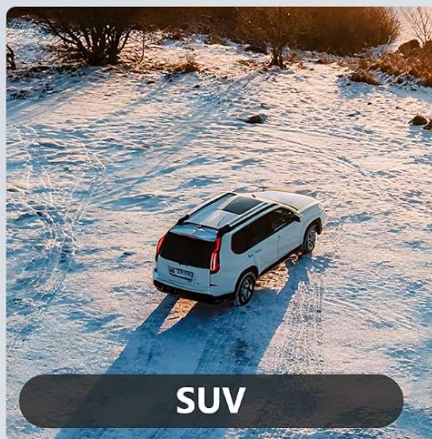
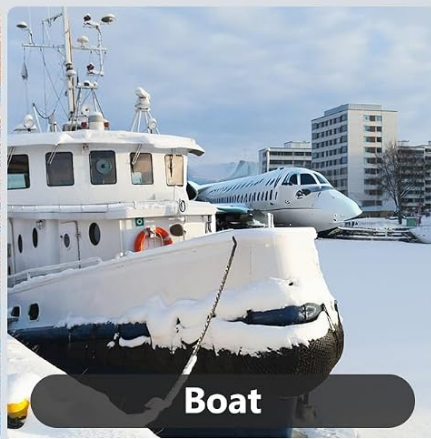


Image 4.1: Recommended installation locations for the diesel heater in different vehicle types.

Video 4.1: Unboxing and assembly guide for the SILVEL Diesel Heater, demonstrating pipe and power connections.

5. OPERATING INSTRUCTIONS

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

5.1. LCD Panel Operation

1. **Power On/Off:** Press the power button (**U**) to turn the heater on or off.
2. **Adjust Temperature:** Use the up (**▲**) and down (**▼**) arrows to set the desired temperature between 8°C (46.4°F) and 36°C (96.8°F).
3. **Timer Settings:** Press the 'OK' button to cycle through settings. Use the arrows to set a timer for automatic shutdown.
4. **Mode Selection:** The wrench icon button allows access to various settings and modes. Refer to the detailed user manual for advanced settings.

5.2. Remote Control Operation

The remote control allows convenient operation from a distance.

- **Power On/Off:** Press the ON/OFF button to start or stop the heater.
- **Temperature/Power Adjustment:** Use the UP and DOWN buttons to adjust the heating power or temperature setting.

5.3. Automatic Altitude Compensation

The heater is equipped with built-in automatic altitude compensation, suitable for heights up to 11,483 feet (3,500 meters). It will automatically adjust its operation to ensure efficient combustion and consistent heating in high-altitude environments without manual intervention.

LOW TEMPERATURE OR HIGH ALTITUDE AREAS

Tested at an Altitude of up to **3500 Meters**

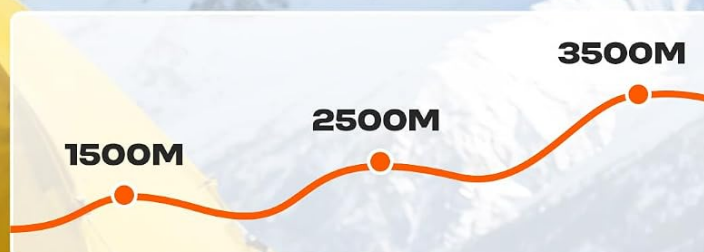


Image 5.1: LCD control panel and remote control for the diesel heater.

Video 5.2: Demonstration of the LCD control panel and remote control functions.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your diesel heater.

- **Fuel Filter:** Periodically check and clean the fuel filter to remove impurities and maintain heating efficiency.
- **Air Filter:** Inspect and clean the air filter regularly to ensure proper airflow and prevent dust buildup.
- **Exhaust System:** Ensure the exhaust pipe and silencer are free from blockages and securely connected. Check for any signs of damage or leaks.
- **General Cleaning:** Keep the exterior of the heater clean and free of dust and debris. Do not use abrasive cleaners or solvents.
- **Storage:** When storing the heater for extended periods, ensure the fuel tank is empty and the unit is clean and dry. Store in a cool, dry place.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Heater does not start	No power, low fuel, clogged fuel filter, incorrect power connection.	Check power supply, ensure sufficient fuel, clean fuel filter, verify power cable connections.
Low heat output	Clogged air filter, exhaust blockage, low fuel quality.	Clean air filter, check exhaust for obstructions, use fresh, clean diesel fuel.
Excessive smoke or odor	Poor combustion, exhaust leak, incorrect fuel.	Ensure proper ventilation, check exhaust connections for leaks, use recommended diesel fuel.
Unusual noise	Loose components, fan obstruction, fuel pump noise.	Inspect for loose parts, clear any fan obstructions. Some fuel pump clicking is normal for diesel heaters.
LCD display error code	Specific internal fault.	Refer to the detailed user manual for specific error code meanings and troubleshooting steps. If the issue persists, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	SILVEL
Model Number	KF620027US-01HDR-001
Heat Output	8000 Watts

Feature	Detail
Fuel Type	Diesel
Voltage	12 Volts / 24 Volts / 110 Volts
Fuel Tank Capacity	9L-10L (2.5 GAL)
Fuel Consumption Rate	0.12 to 0.50 liters per hour
Temperature Range	8°C–36°C (46.4°F–96.8°F)
Heating Coverage	Up to 200 square feet
Altitude Compensation	Automatic, up to 11,483 feet (3,500 meters)
Noise Level	Below 45 dB (with upgraded silent oil pump and muffler)
Dimensions (D x W x H)	18.11"D x 18.11"W x 15.55"H
Special Features	Digital Display, Energy Efficient, Fast Heating, Remote Control, Anti-Leak Design

9. 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, product operation, or warranty claims, please contact SILVEL customer support.

Warranty Period: 1 year (as per product specifications).

For support, please visit the official SILVEL website or refer to the contact information provided in your product packaging.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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