SILVEL KF100249-01

SILVEL 12V 8KW Diesel Heater User Manual

Model: KF100249-01 | Brand: SILVEL

1. Introduction

Thank you for choosing the SILVEL 12V 8KW All-in-One Portable Diesel Air Heater. This manual provides essential information for the safe and efficient operation, setup, maintenance, and troubleshooting of your new diesel heater. Designed for fast heating and consistent temperature control, this portable unit is ideal for various applications including tents, cars, RVs, trucks, campers, trailers, and motorhomes.



Figure 1.1: The SILVEL 12V 8KW Diesel Heater shown with its various components and accessories.

2. Package Contents

Please verify that all items listed below are present in your package:

- SILVEL 12V 8KW Diesel Heater Unit
- Remote Control (Batteries included)
- Installation Kit (various clamps, bolts, nuts)
- Air Filter
- Vent
- Air Outlet Pipe
- Silencer
- Exhaust Pipe
- Inlet Air Pipe



Figure 2.1: Detailed view of all components included in the package, ensuring you have everything for installation.

3. Specifications

Key technical specifications for the SILVEL 12V 8KW Diesel Heater:

Feature	Detail
Brand	SILVEL
Model	KF100249-01 (QNQ-1)
Power Output	5-8KW, 27000 BTU
Rated Voltage	12V
Fuel Type	Diesel

Fuel Tank Capacity	1.3 Gallons
Fuel Consumption	8.5-17 oz/h
Working Time	12-24 Hours (depending on settings)
Product Dimensions	15.35 x 15.35 x 6.02 inches
Item Weight	20.9 pounds
Special Features	Portable, LCD Monitor, Remote Control, Low Noise



Figure 3.1: Overview of the product's key specifications and features.



Figure 3.2: Visual representation of the heater's dimensions and heating capacity.

4. Safety Information

Please read and understand all safety warnings before operating the diesel heater. Failure to follow these instructions may result in fire, explosion, electric shock, or other injuries.

- **Ventilation:** Always ensure adequate ventilation when operating the heater to prevent carbon monoxide buildup. Do not use in enclosed, unventilated spaces.
- **Fuel Handling:** Use only diesel fuel. Never use gasoline or other volatile fuels. Refuel in a well-ventilated area away from ignition sources.
- **Hot Surfaces:** The heater's exhaust and certain parts become extremely hot during operation. Avoid contact and keep flammable materials away.
- **Placement:** Place the heater on a stable, non-flammable surface. Ensure exhaust is directed safely away from people, structures, and combustible materials.
- **Children and Pets:** Keep children and pets away from the operating heater.

- **Electrical Connection:** Ensure the 12V power supply is stable and correctly connected. Do not overload circuits.
- **Emergency Shut-off:** Familiarize yourself with the emergency shut-off procedure.

5. Setup

The SILVEL diesel heater is designed for convenient, all-in-one installation. Follow these general steps for initial setup:

1. **Unpacking:** Carefully remove all components from the packaging and inspect for any damage.
2. **Placement:** Choose a suitable location for the heater. It should be on a flat, stable surface, away from any flammable materials. Ensure there is sufficient clearance around the unit for air intake and exhaust.
3. **Exhaust System:** Connect the exhaust pipe and silencer securely. Route the exhaust pipe outdoors or to a safe, well-ventilated area, ensuring no exhaust gases can re-enter the heated space.
4. **Air Intake:** Attach the air inlet pipe and air filter. Ensure the air intake is clear of obstructions.
5. **Fuel Connection:** The fuel tank is integrated. Fill the tank with clean diesel fuel. Ensure the fuel cap is securely tightened.
6. **Electrical Connection:** Connect the heater to a stable 12V power source. Ensure correct polarity.
7. **Initial Priming:** Before first use, it may be necessary to prime the fuel system. Refer to the LCD display instructions for priming mode if available, or allow the heater to attempt starting a few times to draw fuel.

6. Operating Instructions

Your SILVEL diesel heater features an intuitive LCD monitor and remote control for easy operation.

6.1. Control Panel Overview



Figure 6.1: The intelligent LCD display and remote control allow for convenient operation and pre-heating.

- **LCD Monitor:** Displays current temperature, power settings, fan speed, fuel level, and error codes.
- **Buttons:** Typically include Power ON/OFF, OK/Set, Up/Down arrows for temperature/power adjustment, and a Settings button.
- **Remote Control:** Allows for convenient operation from a distance, including turning the unit on/off and adjusting settings.

6.2. Starting the Heater

1. Ensure the heater is properly set up and connected to power.
2. Press the Power button on the control panel or remote control.
3. The heater will initiate its startup sequence, which includes pre-heating the glow plug and starting the fuel pump. This process may take a few minutes.
4. Once started, the display will show the current operating status and temperature.

6.3. Adjusting Settings

- Use the Up/Down arrows to adjust the desired temperature or heating power. The heater will automatically regulate its

output to maintain the set temperature.

- Access the settings menu (usually via the 'Settings' or 'OK' button) to adjust fan speed, timer functions, or other advanced options.

6.4. Shutting Down the Heater

1. Press the Power button again to turn off the heater.
2. The heater will enter a cool-down cycle to prevent overheating and ensure longevity. Do not disconnect power during this cycle.
3. Once the cool-down cycle is complete, the unit will fully shut down.



Figure 6.2: The heater is designed for quiet operation, allowing for extended use without disturbance.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your diesel heater.

- **Cleaning:** Periodically clean the exterior of the heater with a soft, damp cloth. Ensure air intake and exhaust vents are free

from dust and debris.

- **Air Filter:** Check and clean or replace the air filter regularly, especially if operating in dusty environments.
- **Fuel System:** Use clean diesel fuel to prevent clogging. If the heater is stored for an extended period, drain the fuel tank or use a fuel stabilizer.
- **Exhaust System:** Inspect the exhaust pipe and silencer for any blockages or damage. Ensure secure connections.
- **General Inspection:** Before each use, quickly inspect the unit for any loose connections, visible damage, or unusual wear.

8. Troubleshooting

If you encounter issues with your SILVEL diesel heater, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Heater does not start	No power, low battery, no fuel, clogged fuel line, glow plug issue.	Check 12V power connection and battery charge. Ensure sufficient diesel fuel. Check for kinks or blockages in fuel lines. If persistent, contact support.
Error Code (e.g., E-03)	Specific error codes indicate various issues (e.g., E-03 often relates to ignition failure or fuel supply).	Consult the heater's display for the specific error code meaning. Common solutions involve checking fuel, power, and ensuring no blockages in air/exhaust. Restart the unit.
Low heat output	Low power setting, dirty air filter, insufficient fuel.	Increase power setting. Clean or replace air filter. Ensure adequate fuel supply.
Excessive smoke or unusual smell	Improper combustion, incorrect fuel, exhaust blockage.	Immediately shut down the heater. Check fuel type. Inspect exhaust for blockages. Ensure proper ventilation. Do not operate until the issue is resolved.
Heater shuts off unexpectedly	Overheating, low fuel, power interruption, safety sensor triggered.	Check fuel level. Ensure proper ventilation and clear air circulation around the unit. Verify stable power supply. Allow unit to cool down before restarting.

9. Warranty and Support

For warranty information, technical support, or replacement parts, please contact SILVEL customer service. Keep your purchase receipt and product model number (KF100249-01) readily available when contacting support.
You can find more information and contact details on the official SILVEL brand store:SILVEL Brand Store.

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