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> [SILVEL 8KW 12V Diesel Heater Instruction Manual \(Model CSQNQ-KF370009-02\)](#)

SILVEL CSQNQ-KF370009-02

SILVEL 8KW 12V Diesel Heater Instruction Manual

Model: CSQNQ-KF370009-02

1. PRODUCT OVERVIEW

The SILVEL 8KW 12V Diesel Heater is an all-in-one diesel air heater designed for various applications including RVs, trucks, boats, campers, and cars. It provides efficient and reliable heating in cold environments.

Key Features:

- **Power Output:** 8KW (27000 BTU)
- **Rated Voltage:** 12V
- **Fuel Type:** Diesel
- **Continuous Operation:** Up to 24 hours
- **Fuel Tank Capacity:** 1.3 gallons (5 liters)
- **Fast Heating:** Achieves 32°F-212°F in approximately 10 minutes.
- **Quiet Operation:** Engineered for low noise levels.
- **Versatile Use:** Suitable for both indoor and outdoor applications.



Figure 1: Main unit of the SILVEL 8KW 12V Diesel Heater.



PACKAGE LISTING



Installation kit



Remote Control
(Batteries are included)



Air Filter



Vent



Air Outlet Pipe



Silencer



Exhaust Pipe



Inlet Air Pipe

Figure 2: Product information and dimensions (14.6" H x 5.9" W x 16.1" L) of the diesel heater.

2. PACKAGE CONTENTS

Please ensure all items listed below are present in your package:

- SILVEL Diesel Heater Unit
- Installation Kit (various clamps, screws, nuts)
- Remote Control (batteries included)
- Air Filter
- Vent
- Air Outlet Pipe
- Silencer
- Exhaust Pipe
- Inlet Air Pipe



Figure 3: Visual representation of the package contents, including the main unit and all accessories.

3. SETUP AND INSTALLATION

Proper installation is crucial for safe and efficient operation. Follow these steps carefully.

3.1 Safety First: Exhaust Venting

WARNING: The exhaust pipe must always be vented to the outside environment to prevent carbon monoxide buildup. Never operate the heater indoors without proper external exhaust ventilation.

3.2 Installation Steps

1. **Prepare Mounting Surface:** Ensure the heater is placed on a stable, flat surface. If mounting through a wall, ensure the cutouts for the intake and exhaust pipes are correctly sized (e.g., 1-3/8" diameter, 22" apart center-to-center for the main unit's connections).
2. **Connect Exhaust Pipe:** Securely attach the flexible exhaust pipe to the exhaust port on the heater using the provided clamps. Ensure a tight seal.
3. **Connect Intake Pipe and Air Filter:** Attach the flexible intake pipe to the intake port. Install the air filter element onto the end of the intake pipe and secure it with a clamp.

4. **Install Silencer:** Connect the silencer to the exhaust pipe, ensuring it is securely clamped.
Note: The silencer should be installed horizontally or facing downwards to prevent condensate water from flowing back into the heater.
5. **Attach Air Outlet Duct:** Connect the air outlet duct to the heater's hot air outlet. Secure it with a clamp.
6. **Pour Diesel Fuel:** Carefully pour diesel fuel into the fuel tank. Ensure the fuel cap vent is clear of any obstructions (e.g., paper) to prevent tank deformation.
7. **Connect 12V Power:** Connect the heater to a 12V power source (e.g., a car battery). Ensure correct polarity: red wire to positive (+), black wire to negative (-).

Your browser does not support the video tag.

Video 1: Official SILVEL installation guide for the diesel heater. This video demonstrates the step-by-step assembly of the exhaust, intake, and air outlet components, as well as fuel filling.

4. OPERATING INSTRUCTIONS

The SILVEL Diesel Heater can be operated via its integrated LCD display or the included remote control.

4.1 Controls

ALL-IN-ONE LCD&REMOTE CONTROL METHOD



Figure 4: The heater features an integrated LCD control panel and a remote control for convenient operation.

4.2 Starting the Heater

1. Ensure all connections are secure and the fuel tank contains diesel.
2. Press the power button on the LCD panel or the remote control. The unit will initiate a startup sequence, including preheating the glow plug and priming the fuel pump.
3. Once started, the fan will begin blowing warm air.

4.3 Adjusting Temperature and Modes

- Use the up/down arrows on the LCD or remote to adjust the desired temperature.
- The heater typically offers manual (power level based) and automatic (temperature-based) modes. Refer to the LCD display for current mode and settings.
- Note: Temperature settings may be displayed in Celsius. Some units may allow switching to Fahrenheit, consult the display options.

4.4 Shutting Down the Heater

1. Press and hold the power button on the LCD panel or remote control to initiate shutdown.
2. The heater will enter a cool-down cycle, where the fan continues to run for a period to cool down internal components. Do not disconnect power during this cycle.

3. The unit will completely shut off once the internal components have cooled sufficiently.

5. MAINTENANCE

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

- **Clean Air Filter:** Periodically inspect and clean the air filter to ensure proper airflow.
- **Check Connections:** Regularly inspect all hose and power connections for tightness and wear.
- **Fuel Quality:** Use clean, high-quality diesel fuel to prevent clogs and ensure efficient combustion.
- **Component Inspection:** Check for any signs of damage or unusual wear on pipes, clamps, and the main unit.
- **Rebuild Kits:** Rebuild kits for internal components are generally inexpensive and can extend the life of the heater.

6. TROUBLESHOOTING

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

- **Heater Fails to Start or Shuts Off Prematurely in Cold Weather:** Ensure the glow plug is functioning correctly. In extremely cold conditions, pre-warming the unit (e.g., with a small external heat source) might be necessary to aid initial ignition.
- **Fuel Leaks or Tank Deformation:** Verify the fuel cap vent is clear and unobstructed. A blocked vent can cause pressure issues.
- **Reduced Airflow or Heating:** Check the air filter for clogs and ensure all air ducts are free from obstructions or kinks.
- **Unusual Noises (e.g., Fan Motor):** Inspect the fan motor for any obstructions or signs of wear. If the fan motor seizes, it may require replacement.
- **Exhaust Fumes Indoors:** Immediately shut off the heater. Re-check all exhaust connections and ensure the exhaust pipe is properly vented outside. Never operate with exhaust fumes present indoors.

7. SPECIFICATIONS

Specification	Detail
Brand	SILVEL
Model Number	CSQNQ-KF370009-02

Power	8KW (27000 BTU)
Rated Voltage	12V
Fuel Type	Diesel
Fuel Tank Capacity	1.3 Gallons (5 Liters)
Item Weight	20.9 pounds
Product Dimensions	26 x 14 x 11 inches
Exterior Finish	Painted
Date First Available	August 11, 2023

8. SAFETY INFORMATION

Please read and fully understand this manual before assembling, using, or servicing this appliance. Incorrect use of this appliance can cause serious or fatal injury from burns, fire, explosion, electrical shock, or carbon monoxide poisoning.

- Use only kerosene or diesel fuel.
- Do not use near flammable substances or vapors.
- Never move, handle, refuel, or service the appliance while it is operating or connected to the electrical supply.
- Use in well-ventilated areas only.
- Ensure the exhaust is always directed outside.
- Do not modify, alter, or attach any object to this appliance.
- Appliance must be earthed.
- Disconnect from power before maintenance.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact SILVEL customer service through your original purchase channel. Keep your purchase receipt as proof of purchase.