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> [VELPAX 8KW 12V/24V/220V All-in-One Portable Diesel Air Heater User Manual \(Model: LSJRQ-APP-220V\)](#)

VELPAX LSJRQ-APP-220V

VELPAX 8KW 12V/24V/220V All-in-One Portable Diesel Air Heater

Model: LSJRQ-APP-220V

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your VELPAX 8KW 12V/24V/220V All-in-One Portable Diesel Air Heater. Please read this manual thoroughly before installation and use, and retain it for future reference. This heater is designed to provide efficient heating for various environments, including vehicles, outdoor spaces, and small indoor areas, offering a heating capacity of 8KW and compatibility with 12V, 24V, and 220V power sources.

2. SAFETY INSTRUCTIONS

- Always operate the heater in a well-ventilated area to prevent carbon monoxide buildup.
- Do not block the air inlet or outlet. Maintain clear space around the unit.
- Ensure the heater is placed on a stable, non-combustible surface.
- Keep flammable materials at a safe distance from the heater.
- Do not touch hot surfaces during operation or immediately after shutdown.
- Use only diesel fuel. Never use gasoline or other volatile fuels.
- Regularly inspect the fuel lines and connections for leaks or damage.
- Disconnect power before performing any maintenance or cleaning.
- Keep children and pets away from the operating heater.
- If the heater emits unusual odors or smoke, turn it off immediately and investigate the cause.

3. PRODUCT SPECIFICATIONS AND PACKAGE CONTENTS

PRODUCT SPECIFICATIONS AND PACKAGE CONTENT

• Width : 5.9inch/150mm • Length : 13.8inch/351mm • Height : 16.1inch/410mm



Product Information

Heater Power : 8KW

Rated Voltage : 220V

Working temperature of the heater :
-40°C~+50°C(-40°F~122°F)

Fuel type : Diesel

Fuel consumption(L/H) : 0.18-0.48

PACKAGE LISTING



Image: Detailed view of product dimensions, specifications, and included accessories.

3.1. Specifications

Feature	Description
Heater Power	8 KW
Rated Voltage	12V / 24V / 220V
Working Temperature	-40°C to +50°C (-40°F to 122°F)
Fuel Type	Diesel
Fuel Consumption	0.18 - 0.48 L/H
Dimensions (L x W x H)	351mm x 150mm x 410mm (13.8in x 5.9in x 16.1in)
Weight	Approximately 9.08 kg (20 lbs)
Control	LCD Display, Remote Control, Bluetooth APP

3.2. Package Contents

- Diesel Air Heater Unit
- Installation Kit (clamps, screws, etc.)
- Remote Control
- Air Filter
- Silencer
- Outlet Air Pipe
- Inlet Air Pipe
- Exhaust Pipe

4. SETUP AND INSTALLATION



Image: Overview of the all-in-one design, highlighting the convenient handle, rugged interface, and fuel injection port.

1. **Placement:** Position the heater on a flat, stable surface. Ensure adequate clearance around the air inlet (cold air) and air outlet (hot air).
2. **Exhaust System:** Connect the exhaust pipe to the heater's exhaust port. Route the exhaust pipe safely away from combustible materials and ensure exhaust gases are vented outdoors. Install the silencer if desired for reduced noise.
3. **Air Intake/Outlet:** Connect the inlet air pipe and outlet air pipe. Ensure these are securely fastened and directed as needed for heating.
4. **Fuel Filling:** Open the oil injection hole and carefully fill the integrated fuel tank with clean diesel fuel. Do not overfill. Securely close the cap after filling.
5. **Power Connection:** Connect the heater to the appropriate power source (12V, 24V, or 220V) according to your model and power supply. Ensure connections are secure and correct polarity is observed for DC power.
6. **Initial Start-up:** Before the first use, allow the fuel pump to prime by running the heater for a few minutes. This ensures fuel reaches the combustion chamber.

5. OPERATING INSTRUCTIONS

5.1. LCD Thermostat and Remote Control

LCD THERMOSTAT & REMOTE CONTROL

You can pre-heat the engine and cab to ensure you feel warm when you open the doors in winter.



Image: Displaying the LCD control panel with buttons for temperature adjustment, power, settings, and a remote control for long-distance operation.

1. **Power On/Off:** Press the **ON/OFF switch** button on the LCD panel or remote control to start or stop the heater.
2. **Temperature Adjustment:** Use the **Lower temperature** and **Raise temperature** buttons to set your desired temperature. The adjustable range is typically 8-36°C (46-97°F).
3. **Settings:** Press the **Setting button (OK)** to access various settings such as timer, fan speed, and altitude mode.
4. **Timer Function:** The 24-hour timer allows you to schedule automatic turn-on and shut-off times. Refer to the LCD display for timer setup.
5. **Remote Control:** The included remote control allows for convenient operation from up to 30 meters (98 feet) away, enabling you to pre-heat your vehicle or space.

5.2. Bluetooth APP Control

HEATING GETS SMARTER

Support for connecting Bluetooth devices, up to 98ft remote control distance



Image: Illustrating the smartphone application interface for controlling the diesel heater, showing options for temperature, gear setting, timer, and fault code display.

1. **Download APP:** Scan the QR code provided in the packaging or search for the designated app (e.g., 'HeatGenie') on your smartphone's app store.
2. **Pairing:** Enable Bluetooth on your smartphone and follow the app's instructions to pair with your VELPAX diesel heater.
3. **Functions:** The app allows for remote control of temperature adjustment, gear setting (fan speed), timer function, and displays fault codes for troubleshooting.
4. **Altitude Mode:** The app may offer an altitude mode setting, which adjusts the heater's operation for optimal performance at higher altitudes (e.g., up to 18045 feet).

6. MAINTENANCE

- **Regular Cleaning:** Keep the exterior of the heater clean. Use a soft, damp cloth. Do not use abrasive cleaners or solvents.

- **Air Filter:** Periodically check and clean the air filter to ensure optimal airflow and prevent dust buildup. Replace if damaged.
- **Fuel System:** Inspect fuel lines and connections for any signs of leaks or damage. Ensure the fuel tank is free of contaminants.
- **Exhaust System:** Check the exhaust pipe for blockages or damage. Ensure it is securely attached and venting properly.
- **Storage:** When storing the heater for extended periods, ensure the fuel tank is empty or filled with fresh fuel and the unit is clean and dry. Store in a cool, dry place.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Heater does not start	No power, low fuel, clogged fuel line, air in fuel line	Check power connection, refill fuel, inspect/clean fuel line, prime fuel pump
Low heat output	Clogged air filter, incorrect temperature setting, low fuel quality	Clean/replace air filter, adjust temperature, use fresh diesel fuel
Excessive smoke	Poor combustion, incorrect fuel-air mixture, faulty glow plug	Ensure proper ventilation, check fuel quality, consult service if persistent
Unusual noise	Loose components, fan obstruction, worn bearings	Inspect for loose parts, clear obstructions, consult service if persistent
Remote control not working	Dead batteries, out of range, interference	Replace batteries, move closer to heater, reduce interference

For persistent issues or error codes displayed on the LCD/APP, please contact VELPAX customer support.

8. USAGE SCENARIOS

SUITABLE FOR A WIDE RANGE OF VEHICLES

Can be used in a variety of environments including cars, caravans, boats and indoors



Image: Depicting various applications for the diesel air heater, including RVs, caravans, trucks, boats, greenhouses, camping, homes, and garages.

The VELPAX All-in-One Portable Diesel Air Heater is versatile and suitable for a wide range of applications:

- **Vehicles:** RVs, Caravans, Trucks, Boats, Cars (for pre-heating or auxiliary heating).
- **Outdoor Activities:** Camping, hunting blinds, outdoor workshops.
- **Indoor Spaces:** Garages, small workshops, greenhouses, temporary heating for homes (with proper ventilation).

24 HOURS LOW NOISE OPERATION

Efficient noise reduction allows for quiet use in a variety of scenarios.



Caravans

House

Outdoors



Image: Highlighting the low noise operation feature, suitable for use in caravans, homes, and outdoor environments.

The heater features efficient noise reduction, allowing for quiet operation suitable for extended use (e.g., 15-24 hours) in various scenarios.

9. WARRANTY AND SUPPORT

VELPAX products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official VELPAX website. If you require technical assistance, troubleshooting, or have questions regarding your heater, please contact VELPAX customer support through the contact information provided in your product packaging or on the official website.