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PNI WB300

PNI WB300 Diesel Air Heater User Manual

Model: WB300 | Brand: PNI

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your PNI WB300 Diesel Air Heater. Please read this manual thoroughly before installation and use, and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of the product.



Image: Overall view of the PNI WB300 Diesel Air Heater, showing its compact design with integrated fuel tank and carrying handles.

SAFETY INFORMATION

Your safety is paramount. Observe all warnings and precautions to prevent injury or damage.

- Ensure proper ventilation during operation to prevent carbon monoxide poisoning. Do not operate the heater in enclosed spaces without adequate airflow.
- Keep flammable materials, such as fuel, paper, or fabrics, away from the heater's exhaust and hot air outlet. Maintain a safe distance.
- Verify correct voltage (12V/24V DC or 230V AC) before connecting the power supply. Incorrect voltage can damage the unit and pose a fire hazard.
- Do not modify the heater or its components. Use only original spare parts for repairs or replacements. Unauthorized modifications void the warranty and can be dangerous.
- Disconnect power before performing any maintenance, cleaning, or troubleshooting.
- Keep the heater out of reach of children and pets. The surface of the heater can become hot during operation.
- The exhaust pipe must be routed safely away from the vehicle's interior, windows, vents, and any

flammable surfaces. Ensure exhaust gases are expelled outdoors.

- Do not operate the heater if it is damaged or malfunctioning. Contact support for assistance.

PACKAGE CONTENTS

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

- PNI WB300 Diesel Air Heater Unit
- Intake Pipe
- Exhaust Pipe
- Hot Air Outlet Pipe
- Air Filter
- Remote Control
- Fixture Accessories Set (clamps, screws, mounting plate)
- Power Cables (DC and AC, depending on model variant)



Image: All components included with the PNI WB300 Diesel Air Heater, including the main unit, various pipes, air filter, remote control, and mounting hardware.

PRODUCT OVERVIEW

Familiarize yourself with the main components of your PNI WB300 Diesel Air Heater.

Front Panel



Image: Front view of the PNI WB300 Diesel Air Heater, showing the LCD control panel and the hot air outlet.

- **LCD Control Panel:** Displays operating status, temperature, voltage, and allows for setting adjustments.
- **Hot Air Outlet:** Where heated air is expelled into the environment.

Rear Panel



Image: Rear view of the PNI WB300 Diesel Air Heater, showing the power input, fuel intake, and exhaust connections.

- **Power Input:** Connection point for 12V/24V DC or 230V AC power.
- **Fuel Intake:** Connects to the fuel line from the integrated fuel tank.
- **Exhaust Outlet:** Connects to the exhaust pipe for expelling combustion gases.
- **Air Intake:** Connects to the air filter and intake pipe for combustion air.

Top Panel

- **Fuel Tank Cap:** For filling the integrated 5-liter diesel fuel tank.
- **Carrying Handles:** For portability and ease of transport.

SETUP AND INSTALLATION

Proper installation is crucial for safety and performance. If you are unsure about any steps, seek professional assistance.

Mounting the Heater

1. Select a stable, non-flammable surface for mounting, either on the vehicle floor or wall. Ensure adequate clearance around the heater for airflow and maintenance.

2. Use the provided fixture accessories (screws, brackets) to securely fasten the heater.
3. Ensure the heater is level to prevent fuel flow issues and ensure efficient operation.

Connecting Air and Exhaust Pipes

4. Attach the intake pipe to the air intake port on the heater. Secure with a clamp.
5. Install the air filter onto the intake pipe to prevent dust and debris from entering the combustion chamber.
6. Connect the exhaust pipe to the exhaust outlet. Ensure the exhaust is routed safely outside the vehicle and away from any windows, vents, or flammable materials. Secure with a clamp.
7. Attach the hot air outlet pipe to the front air outlet.

Fuel Connection

8. Fill the integrated 5-liter fuel tank with clean diesel fuel. Do not overfill.
9. Ensure the fuel cap is securely tightened to prevent leaks and evaporation.

Power Connection

10. The PNI WB300 supports 12V/24V DC and 230V AC power. Verify your power source matches the heater's requirements.
11. For 12V/24V DC, connect the power cables to a suitable battery (minimum 40A) or a 12V 10A power supply. Observe correct polarity (red for positive, black for negative).
12. For 230V AC, connect the provided AC power cord to a grounded outlet.
13. Ensure all electrical connections are secure and insulated to prevent short circuits.

OPERATING INSTRUCTIONS

Initial Start-up

1. After installation, ensure all connections are secure and the fuel tank is filled.
2. Connect the heater to the appropriate power source.
3. Press the power button on the LCD control panel or remote control to turn on the heater.
4. The heater will perform a self-check. During the first start-up, it may take a few minutes for the fuel pump to prime and for the heater to ignite.

Using the LCD Control Panel

The LCD panel provides real-time information and allows for various settings adjustments.

- **Power Button:** Turns the heater ON/OFF.
- **Up/Down Buttons:** Adjust temperature, power level, or navigate menu options.
- **OK Button:** Confirms selections.
- **Menu Button:** Accesses settings such as timer, fan speed, and power levels.

Adjusting Power Levels

The PNI WB300 features 10 power levels (1.0 - 5.5 Hz) to control heat output.

1. Press the Menu button to enter the power adjustment mode.

2. Use the Up/Down buttons to select the desired power level (e.g., 1.0 for lowest heat, 5.5 for highest heat).
3. Press OK to confirm your selection.

Using the Remote Control

The remote control allows for convenient operation from a distance.

- **Power Button:** Turns the heater ON/OFF.
- **Temperature/Power Adjustment:** Buttons for increasing or decreasing heat output.
- **Timer Function:** Set specific start and stop times for heating. Refer to the LCD panel for detailed timer settings.

Shutting Down the Heater

To turn off the heater, press the power button on the LCD panel or remote control. The heater will enter a cool-down cycle to prevent overheating and ensure safe shutdown. Do not disconnect power until the cool-down cycle is complete, which typically takes a few minutes.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your heater. Always disconnect power before performing any maintenance.

- **Daily:** Check for any unusual noises or smells during operation. Ensure the exhaust pipe is clear of obstructions.
- **Weekly:** Inspect the air filter and clean if necessary. Replace if heavily soiled or damaged.
- **Monthly:** Check all pipe connections and electrical wiring for security and damage. Clean the exterior of the heater with a soft, damp cloth.
- **Annually:** It is recommended to have the heater inspected by a qualified technician. This may include cleaning the combustion chamber and fuel lines.

Cleaning

Use a soft, damp cloth to clean the exterior surfaces. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.

For internal cleaning, especially of the combustion chamber or fuel system, it is recommended to consult a professional service technician.

TROUBLESHOOTING

This section addresses common issues you might encounter. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Heater does not start	No power; Low fuel; Faulty ignition; Air in fuel line.	Check power connections and source; Refill fuel tank; Check for error codes on LCD; Prime fuel pump by cycling power.

Problem	Possible Cause	Solution
Low heat output	Low power setting; Clogged air filter; Blocked air intake/outlet.	Increase power level; Clean/replace air filter; Clear any obstructions from air intake or hot air outlet.
Excessive smoke	Poor combustion; Incorrect fuel; Blocked exhaust.	Ensure proper diesel fuel type; Check exhaust for blockages; Consult a technician for combustion chamber inspection.
Error code displayed	Internal fault or sensor issue.	Note the error code and refer to the heater's specific error code list (if provided separately) or contact support for diagnosis.

SPECIFICATIONS

Technical specifications for the PNI WB300 Diesel Air Heater.



Image: Product label displaying key technical specifications and certifications.

Feature	Detail
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Feature	Detail
Model	PNI-WB300
Rated Voltage	12V (DC) / 24V (DC) / 230V (AC)
Thermal Power	5 kW
Electric Power	10 - 50W
Fuel Consumption	0.23 - 0.51 liters/hour
Operating Temperature	-40°C ~ +80°C
Fan Speed	1800 - 4500 rpm
Fuel Tank Capacity	5 liters
Noise Level	Max. 65 dB
Dimensions (L x W x H)	420 x 370 x 150 mm (approx. 37 x 37 x 42 cm)
Weight	8 kg (approx. 8.84 kg)
Power Levels	10 levels (1.0 - 5.5 Hz)
UPC	5949066530586

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your proof of purchase for any warranty claims.

Manufacturer: ONLINESHOP SRL

Country of Origin: China

Related Documents - WB300

