

## ProCom PCK220VT

# ProCom Kerosene Forced Air Heater Model PCK220VT Instruction Manual

## INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your ProCom Kerosene Forced Air Heater, Model PCK220VT. Please read all instructions carefully before using the heater to ensure proper function and to prevent potential hazards. This commercial-grade forced air heater is designed to provide significant heat output for various applications, utilizing multiple fuel types.

## IMPORTANT SAFETY INFORMATION

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**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.**

- Always ensure adequate ventilation when operating the heater. This heater consumes oxygen. Do not use in unventilated areas.
- Maintain a safe distance from combustible materials. Keep the heater at least 3 feet (0.9 meters) from walls, furniture, and other objects.
- Use only approved fuels: Kerosene, #1 & #2 Diesel Fuel, Fuel Oil, JP-8 Fuel, and Jet A Fuel. Never use gasoline or other highly flammable liquids.
- Do not operate the heater in areas where gasoline, paint thinners, or other highly flammable vapors or liquids are stored or used.
- Never leave the heater unattended while in operation.
- Ensure the heater is placed on a stable, level, non-combustible surface.
- Keep children and pets away from the heater.
- Always unplug the heater and allow it to cool completely before performing any maintenance or moving it.
- Do not block the air intake or exhaust outlets.

## PRODUCT FEATURES

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- Variable Heat Output: 160,000 - 220,000 BTU.

- Multifuel Capable: Compatible with Kerosene, #1 & #2 Diesel Fuel, #1 & #2 Fuel Oil, JP-8 Fuel, and Jet A Fuel.
- Heating Coverage: Up to 5,200 sq. ft.
- Fuel Capacity: 14 Gallons, providing up to 12 hours of run time on a full tank.
- LED Control Board with Temperature Display.
- Digital Variable Thermostat: Automatically adjusts heat output, adjustable from 5 to 95 degrees Fahrenheit.
- Instant Heat: No startup time required.
- Portable Design: Features a sturdy grip handle and flat-free wheels for easy transport.
- Thermally Protected Motor for extended life.
- Agency Certified for outdoor use.

## COMPONENTS OVERVIEW

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**Figure 1: Fuel Gauge and Cap.** This image shows the fuel gauge, indicating the current fuel level, and the fuel tank cap for refilling.



Figure 2: Control Panel. This image displays the digital LED control board with temperature display, thermostat adjustment buttons, mode/reset button, and the main ON/OFF switch.

## SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove the heater from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the heater on a firm, level surface, ensuring it is at least 3 feet (0.9 meters) away from any combustible materials. Ensure the area is well-ventilated.
3. **Fueling:** Unscrew the fuel cap and fill the tank with the appropriate fuel (Kerosene, #1 & #2 Diesel Fuel, Fuel Oil, JP-8 Fuel, or Jet A Fuel). Do not overfill. Refer to the fuel gauge (Figure 1) to monitor the level. Securely replace the fuel cap.
4. **Power Connection:** Plug the power cord into a properly grounded 120V/60Hz outlet. Use a 3-prong grounded extension cord if necessary, ensuring it is rated for outdoor use and the heater's power requirements.

## OPERATING INSTRUCTIONS

### 1. Starting the Heater:

- Press the ON/OFF button (Figure 2) to turn on the heater.
- Wait approximately 10 seconds for the LED display to activate.

- Press the MODE/RESET button to select the desired operating mode (Manual or Thermostat).

## 2. Manual Mode:

- In Manual Mode, use the UP (▲) and DOWN (▼) arrows (Figure 2) to adjust the heat output (BTU setting).

## 3. Thermostat Mode:

- In Thermostat Mode, use the UP (▲) and DOWN (▼) arrows (Figure 2) to set the desired temperature between 5 and 95 degrees Fahrenheit. The heater will automatically adjust its output to maintain the set temperature.

4. **Resetting the Heater:** If the heater shuts down unexpectedly, wait two minutes before attempting to restart. Press the MODE/RESET button to restart the heater.

5. **Stopping the Heater:** Press the ON/OFF button to turn off the heater. Unplug the heater when not in use or for extended periods.

## FUEL INFORMATION

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The ProCom PCK220VT heater is designed for multi-fuel operation, offering versatility for various environments. Compatible fuels include:

- Kerosene
- #1 & #2 Diesel Fuel
- Fuel Oil
- JP-8 Fuel
- Jet A Fuel

**Important: Always use clean, fresh fuel. Never use gasoline, paint thinners, alcohol, or any other highly volatile or flammable liquids, as this can cause fire or explosion.**

## MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your heater. Always unplug the heater and allow it to cool completely before performing any maintenance.

- **General Cleaning:** Keep the exterior of the heater clean and free from dust and debris. Use a soft, damp cloth for cleaning.
- **Fuel Filter:** Check and clean the fuel filter periodically, especially if you notice reduced performance or irregular operation. Refer to the full owner's manual for specific instructions on accessing and cleaning the fuel filter.
- **Air Filter:** Ensure the air intake areas are clear of obstructions. Clean any accumulated dust or debris.
- **Storage:** When storing the heater for extended periods, ensure the fuel tank is empty and clean. Store in a dry, safe location.

## TROUBLESHOOTING

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| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem                                     | Possible Cause  | Solution   |
|---|---|--|
| Heater does not start or shuts off quickly. | No fuel, incorrect fuel, clogged fuel filter, power issue, or thermostat setting. | Check fuel level and type. Clean or replace fuel filter. Ensure power cord is securely plugged in. Adjust thermostat to a higher setting. Wait 2 minutes and press MODE/RESET. |
| Heater produces smoke or unusual odor.      | Incorrect fuel, dirty fuel filter, or improper combustion.                        | Verify fuel type. Clean or replace fuel filter. Ensure adequate ventilation. If problem persists, discontinue use and contact support.   |
| Reduced heat output.                        | Low fuel, dirty air intake, or incorrect BTU setting.                             | Refill fuel. Clean air intake. Adjust BTU setting in manual mode or increase thermostat setting.   |
| LED display not working.                    | Electrical issue or display malfunction.  | Check power connection. If other functions work, contact customer support for display replacement.   |

For issues not listed here, or if troubleshooting steps do not resolve the problem, please contact ProCom customer support.

## TECHNICAL SPECIFICATIONS

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- **Model:** PCK220VT
- **Brand:** ProCom
- **Heat Output:** 160,000 - 220,000 BTU
- **Heating Coverage:** Up to 5,200 sq. ft.
- **Fuel Type:** Kerosene, #1 & #2 Diesel Fuel, Fuel Oil, JP-8 Fuel, Jet A Fuel
- **Fuel Tank Capacity:** 14 Gallons
- **Run Time (Full Tank):** Up to 12 Hours
- **Thermostat Range:** 5 - 95 °F
- **Power Input:** 120V / 60Hz
- **Product Dimensions:** 15"D x 18"W x 30"H
- **Item Weight:** 20 pounds
- **Special Feature:** Portable, Digital Thermostat, LED Display
- **Indoor/Outdoor Usage:** Outdoor

## WARRANTY AND SUPPORT

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For warranty information, technical assistance, or to order replacement parts, please contact ProCom Heating customer service directly. Refer to the contact details provided with your product packaging or visit the official ProCom Heating website for the most up-to-date support information.

Please have your model number (PCK220VT) and purchase date available when contacting support.