

Pro-Temp 70-022-0100

Pro-Temp Rotor Kit Instruction Manual

Models: PT-45-KFA, PT-70T-KFA, PT-125T-KFA, PT-175T-KFA

Brand: Pro-Temp | Model Number: 70-022-0100

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Pro-Temp Rotor Kit. This kit is designed as a replacement part to restore and optimize the performance of compatible Pro-Temp kerosene forced air heaters. Adhering to these instructions will ensure safe and efficient use of your heater.

The Pro-Temp Rotor Kit is engineered for precision and durability, enhancing heat output and operational reliability. It is a crucial component for maintaining the efficiency of your heating unit.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions provided with your heater before performing any maintenance or part replacement.

- **Disconnect Power:** Before beginning any installation or maintenance, always ensure the heater is unplugged from its power source and has cooled down completely.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as gloves and eye protection, during installation.
- **Proper Ventilation:** Ensure adequate ventilation when working on or operating kerosene heaters.
- **Original Parts:** Use only genuine replacement parts to ensure compatibility and safe operation.
- **Professional Assistance:** If you are unsure about any step, consult a qualified service technician.

3. PACKAGE CONTENTS

The Pro-Temp Rotor Kit package includes:

- 1 x PRT Rotor Kit (main rotor component and associated parts)



Figure 1: Pro-Temp Rotor Kit components. This image shows the main rotor component and associated parts included in the kit.



Figure 2: Pro-Temp Rotor Kit retail packaging. The packaging indicates compatibility with Kerosene Forced Air Heaters and displays the part number PP204.

4. COMPATIBLE HEATER MODELS

This Pro-Temp Rotor Kit is compatible with the following kerosene forced air heater models:

- PT-45-KFA (Part #4308656)
- PT-70T-KFA (Part #4308664)
- PT-125T-KFA (Part #4308672)
- PT-175T-KFA (Part #4308680)

Ensure your heater model is listed above for proper fit and function.

5. INSTALLATION INSTRUCTIONS

Follow these steps carefully to install the Pro-Temp Rotor Kit. This process typically involves accessing the fuel pump assembly of your heater.

1. Prepare the Heater:

- Ensure the heater is turned off and unplugged from the electrical outlet.
- Allow the heater to cool completely before proceeding.
- Place the heater on a stable, flat surface.

2. Access the Fuel Pump Assembly:

- Depending on your specific heater model, you may need to remove an outer casing or access panel to expose the fuel pump assembly. Refer to your heater's original instruction manual for detailed steps on accessing internal components.
- Carefully disconnect any fuel lines or electrical connections leading to the pump, noting their original positions for reassembly.

3. Remove the Old Rotor:

- Locate the existing rotor within the fuel pump. It is typically a circular component with vanes.
- Gently remove the old rotor. Note its orientation to ensure the new rotor is installed correctly.

4. Install the New Rotor Kit:

- Carefully place the new Pro-Temp Rotor Kit into the fuel pump assembly, ensuring it seats properly and in the correct orientation.
- Ensure all components of the kit are correctly aligned and secured.

5. Reassemble the Heater:

- Reconnect any fuel lines and electrical connections that were detached. Double-check all connections for security.
- Replace the access panel or outer casing, ensuring all screws and fasteners are tightened.

6. Test the Heater:

- Plug the heater back into the electrical outlet.
- Turn on the heater and observe its operation. Listen for any unusual noises and check for proper fuel flow and ignition.
- If the heater does not operate correctly, refer to the Troubleshooting section or consult a professional.

6. OPERATION (POST-INSTALLATION CHECK)

After installing the rotor kit, the heater should operate as intended. Observe the following:

- **Consistent Heat Output:** The heater should produce a steady and consistent flame, indicating proper fuel delivery.
- **Normal Noise Levels:** The fuel pump should operate smoothly without excessive noise or vibration.
- **No Fuel Leaks:** Visually inspect all fuel line connections for any signs of leakage.

If any abnormalities are detected, immediately turn off and unplug the heater and refer to the Troubleshooting section.

7. MAINTENANCE

Regular maintenance of your heater, including components related to the rotor kit, ensures longevity and optimal performance.

- **Fuel Quality:** Always use clean, high-quality kerosene. Contaminated fuel can damage pump components, including the rotor.
- **Filter Checks:** Regularly inspect and clean or replace fuel filters as recommended in your heater's manual. A clogged filter can strain the fuel pump and rotor.
- **Visual Inspection:** Periodically inspect the fuel pump area for any signs of wear, damage, or fuel leaks.

8. TROUBLESHOOTING

If your heater experiences issues after installing the rotor kit, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Heater does not start or ignite	Incorrect rotor installation; air in fuel lines; clogged fuel filter; electrical issue.	Verify rotor orientation; bleed fuel lines (if applicable); check/replace fuel filter; ensure all electrical connections are secure.
Reduced heat output or weak flame	Partial blockage in fuel system; worn pump components (other than new rotor); incorrect fuel pressure.	Check fuel lines for kinks or blockages; inspect other pump components; consult heater manual for fuel pressure adjustment.
Unusual noises from pump area	Improperly seated rotor; foreign object in pump; air in fuel system.	Re-check rotor installation; inspect pump for obstructions; bleed fuel lines.
Fuel leaks	Loose connections; damaged O-rings or seals.	Tighten all fuel line connections; inspect and replace any damaged seals or O-rings.

If troubleshooting steps do not resolve the issue, contact Pro-Temp customer support or a certified technician.

9. SPECIFICATIONS

- **Brand:** Pro-Temp
- **Part Number:** 70-022-0100
- **Item Weight:** 2.4 ounces
- **Product Dimensions:** 4.8 x 2 x 8.3 inches
- **UPC:** 657888902102
- **Compatibility:** Pro-Temp Kerosene Forced Air Heaters (PT-45-KFA, PT-70T-KFA, PT-125T-KFA, PT-175T-KFA)

10. WARRANTY AND SUPPORT

Specific warranty information for this Pro-Temp Rotor Kit is not provided in the product details. For warranty inquiries, technical support, or to purchase additional parts, please contact Pro-Temp customer service or visit their official website. Keep your purchase receipt as proof of purchase.

For further assistance, you may refer to the [Pro-Temp Store on Amazon](#).