

Raypak 006711F

Raypak Tube Bundle P-R405A 006711F User Manual

Model: 006711F | Brand: Raypak

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the Raypak Tube Bundle P-R405A, model 006711F. This component is a critical part of specific Raypak pool/spa heaters, designed for efficient heat transfer. Understanding its function and proper care will ensure optimal performance and longevity of your heating system.

2. SAFETY INFORMATION

WARNING: Installation and servicing of this product must be performed by a qualified professional. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read this manual thoroughly before installation or servicing.

- Always disconnect power to the heater before attempting any installation or maintenance.
- Allow the heater to cool completely before handling any internal components, as surfaces can remain hot for an extended period.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection, during installation and maintenance.
- Ensure all connections are secure and leak-free after installation.
- Keep children and pets away from the heater area during operation and servicing.

3. PRODUCT COMPONENTS

The Raypak Tube Bundle P-R405A (006711F) is a replacement heat exchanger assembly for compatible Raypak pool/spa heaters. It includes the main copper tube bundle and associated installation hardware.

- Raypak Inc. Part Number: 006711F
- Catalog Part Number: 6234-123



Figure 3.1: Raypak Tube Bundle P-R405A 006711F, showing the copper tubes, insulation, and various installation hardware components including gaskets and fasteners. This image provides a comprehensive view of the complete replacement kit.



Figure 3.2: Close-up view of the Raypak Tube Bundle P-R405A 006711F, highlighting the copper heat exchanger tubes and the end plates. This image focuses on the core heat transfer component.

4. SETUP AND INSTALLATION

Installation of the tube bundle requires specific tools and expertise. It is strongly recommended that this procedure be performed by a certified pool heater technician.

1. **Preparation:** Ensure the heater is turned off, disconnected from power, and completely cooled. Drain the water from the heater.
2. **Access:** Carefully remove the heater casing and any other components obstructing access to the existing tube bundle.
3. **Removal of Old Bundle:** Disconnect all plumbing and gas connections as necessary. Unbolt and carefully remove the old tube bundle. Note the orientation for proper installation of the new unit.
4. **Inspection:** Inspect the heater's combustion chamber and surrounding areas for any debris, corrosion, or

damage. Clean as necessary.

- 5. **Installation of New Bundle:** Carefully position the new Raypak Tube Bundle (006711F) into the heater. Ensure all gaskets and seals are correctly seated. Secure with appropriate fasteners, tightening them evenly to prevent leaks.
- 6. **Reconnection:** Reconnect all plumbing and gas lines. Refill the heater with water and check for leaks before restoring power.
- 7. **Testing:** Once reassembled, perform a thorough operational test to ensure proper function and absence of leaks.

5. OPERATION

The tube bundle is a passive component within the heater's heat exchange system. Its operation is integral to the overall function of the Raypak pool/spa heater. Once installed, the tube bundle facilitates the transfer of heat from the combustion gases to the circulating pool or spa water. Proper installation ensures efficient heat transfer and prevents water or gas leaks.

6. MAINTENANCE

Regular maintenance of your pool heater, including the tube bundle, is crucial for its longevity and efficiency. It is recommended to have your heater inspected annually by a qualified technician.

- **Visual Inspection:** Periodically inspect the tube bundle for signs of corrosion, scale buildup, or leaks.
- **Cleaning:** If scale or debris buildup is observed, consult a professional for appropriate cleaning methods. Harsh chemicals can damage the copper tubes.
- **Water Chemistry:** Maintain proper pool/spa water chemistry to prevent scaling and corrosion, which can significantly impact the tube bundle's lifespan.
- **Ventilation:** Ensure the heater area has adequate ventilation to prevent issues related to combustion and heat dissipation.

7. TROUBLESHOOTING

Issues related to the tube bundle typically manifest as reduced heating efficiency or water leaks. Due to the complexity of pool heater systems, professional diagnosis is always recommended.

- **Reduced Heating:** If the heater is running but not effectively heating the water, the tube bundle may have scale buildup or internal damage reducing heat transfer.
- **Water Leaks:** Leaks from the heater's heat exchanger section often indicate a compromised tube bundle. Immediately shut down the heater and consult a technician.
- **Unusual Noises:** Gurgling or hissing sounds from the heat exchanger could indicate issues with water flow or internal damage.

For any significant operational issues, contact a qualified Raypak service technician.

8. SPECIFICATIONS

Attribute	Value
Product Name	Raypak Tube Bundle P-R405A
Model Number	006711F

Attribute	Value
Manufacturer	RAYPAK
Item Weight	11 pounds
Product Dimensions	13 x 12 x 3 inches
ASIN	B00R8HFPA8

9. WARRANTY AND SUPPORT

This Raypak product is covered by the manufacturer's standard warranty. For specific warranty terms and conditions, please refer to the documentation provided with your original Raypak heater or visit the official Raypak website. For technical support, parts, or service, please contact a qualified Raypak dealer or customer service representative.

Raypak Official Website: www.raypak.com