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Raypak 017960F

Raypak 017960F Protek Shield-Kit Instruction Manual

Model: 017960F

1. INTRODUCTION

The Raypak 017960F Protek Shield-Kit is a critical component designed to protect your Raypak digital gas pool heater's heat exchanger from corrosion. This innovative module functions as a sacrificial anode, attracting and absorbing corrosive elements that would otherwise degrade the heater's internal components. Regular replacement of the Protek Shield-Kit helps extend the lifespan of your pool heater, particularly in environments with chlorinated or saltwater.

2. SAFETY INFORMATION

Always prioritize safety when working with pool equipment. Read and understand all instructions before proceeding with installation or maintenance. If you are unsure about any step, consult a qualified pool technician.

- Ensure the pool heater is turned off and disconnected from all power sources before beginning any work.
- Allow the heater to cool down completely before handling any components.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Keep children and pets away from the work area.
- Dispose of old components responsibly according to local regulations.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before installation.



Image Description: This image displays the complete Raypak 017960F Protek Shield-Kit. On the right is the main shield unit, a clear cylindrical component with a threaded end. To the left, a black electrical wire is shown, coiled, with a yellow-insulated ring terminal at each end. A black O-ring is also visible, positioned within the coil of the wire.

The Raypak 017960F Protek Shield-Kit typically includes:

- 1 x Protek Shield Unit (clear cylindrical component)
- 1 x Grounding Wire with Ring Terminals
- 1 x O-ring

4. SETUP AND INSTALLATION

The Protek Shield-Kit is designed for straightforward replacement in compatible Raypak digital gas heaters. Installation typically takes a few minutes.

1. **Preparation:** Ensure the heater is powered off and cooled. Locate the existing Protek Shield unit on your Raypak heater.

- 2. Removal of Old Unit:** Carefully unscrew and remove the old Protek Shield unit. Note the condition of the old unit; significant erosion indicates it was performing its function. Disconnect the grounding wire if it is attached to the old unit.
- 3. O-ring Installation:** Apply a small amount of silicone-based lubricant to the new O-ring. Place the O-ring onto the new Protek Shield unit. This helps ensure a watertight seal and easier installation.
- 4. New Unit Installation:** Carefully thread the new Protek Shield unit into its receptacle on the heater. Ensure it engages properly to avoid cross-threading. If resistance is met, remove, inspect the threads, and reattempt. Some users have reported needing to slightly adjust the lead-in thread of the new unit if it struggles to catch the female thread.
- 5. Grounding Wire Connection:** Connect the provided grounding wire (or reuse the existing one if in good condition) to the new Protek Shield unit and the designated grounding point on the heater. Ensure a secure connection.
- 6. Leak Check:** Once installed, restore power to the heater and check for any leaks around the newly installed shield unit.

Note: A strap wrench may be useful for removing stubborn old units.

5. OPERATING INSTRUCTIONS

The Raypak Protek Shield-Kit operates passively once installed. Its function is to continuously protect the heat exchanger from galvanic corrosion by acting as a sacrificial anode. No user interaction is required during its operation.

6. MAINTENANCE

For optimal protection and to ensure the longevity of your pool heater, it is recommended to inspect and replace the Raypak Protek Shield-Kit annually. The shield unit will gradually erode over time as it performs its protective function. A visibly eroded shield indicates it has been working effectively and requires replacement.

- Annual Inspection:** During routine pool heater maintenance, visually inspect the Protek Shield unit for signs of erosion.
- Replacement:** Replace the unit if it shows significant wear or annually, whichever comes first. Refer to the "Setup and Installation" section for replacement steps.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
New Protek Shield unit does not thread easily into the heater.	Misalignment or slight manufacturing variation in the lead-in thread.	Ensure proper alignment before attempting to thread. Apply gentle, consistent pressure while turning. If persistent, carefully inspect the lead-in thread of the new unit. Some users have found that a very slight shaving of the lead-in thread can facilitate engagement. Proceed with caution if attempting this.
Leakage around the installed Protek Shield unit.	Improperly seated O-ring or insufficient tightening.	Ensure the O-ring is correctly positioned and lubricated. Gently tighten the unit further, ensuring not to overtighten. If leakage persists, remove the unit, inspect the O-ring and threads for damage, and reinstall.

8. SPECIFICATIONS

Feature	Detail
Model Number	017960F
Brand	Raypak
Product Dimensions	1 x 1 x 1 inches
Item Weight	1 pounds
Manufacturer	Raypak
Compatibility	Designed for Raypak digital gas heaters (e.g., 206A-406A models, as per common usage).

9. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the official Raypak website or contact Raypak customer service directly. Keep your purchase receipt as proof of purchase.

Raypak Official Website: www.raypak.com

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Related Documents - 017960F

	<p><u>Raypak Pool Heater Limited Warranty</u></p> <p>This document outlines the limited warranty provided by Raypak, Inc. for their pool and spa heaters. It details the scope of the warranty, applicable warranty periods for various models, conditions and exclusions, and the process for making a warranty claim. The warranty covers defects in materials and workmanship under normal use and service.</p>
	<p><u>Raypak Gas-Fired Pool & Spa Heater Installation and Operation Manual (Models 268 & 408)</u></p> <p>Comprehensive installation, operation, and service manual for Raypak Gas-Fired Pool & Spa Heaters, Atmospheric Models 268 and 408. Covers setup, maintenance, troubleshooting, and safety guidelines for optimal pool and spa heating.</p>
	<p><u>Raypak AVIA Gas-Fired Pool and Spa Heater Installation & Operation Manual (Models 264, 404)</u></p> <p>Comprehensive installation and operation manual for the Raypak AVIA gas-fired pool and spa heater, covering models 264 and 404. Includes safety warnings, installation guidelines, operating procedures, maintenance, and troubleshooting.</p>

	<p>Raypak PR336AEPC57 332,500 BTU Heater Illustrated Parts List</p> <p>Illustrated parts list for the Raypak PR336AEPC57 332,500 BTU Atmospheric Pool Heater. This document details components for pool models 206A, 266A, 266, 336A, 399, and 406A, manufactured from 10-22-04 through current. It provides call-out numbers, descriptions, and part numbers for various assemblies including burner trays, controls, gas valves, heat exchangers, pilots, and more.</p>
	<p>Raypak Gas-Fired Pool and Spa Heater Installation and Operation Manual (Models 206A, 266A, 336A, 406A)</p> <p>This manual provides detailed instructions for the installation, operation, and maintenance of Raypak atmospheric gas-fired pool and spa heaters, including models 206A, 266A, 336A, and 406A. It covers safety, setup, usage, and troubleshooting.</p>
	<p>Raypak AVIA Gas-Fired Pool and Spa Heater Installation and Operation Manual (Models 264, 404)</p> <p>Comprehensive installation and operation manual for Raypak AVIA gas-fired pool and spa heaters, models 264 and 404. Covers installation, operation, maintenance, troubleshooting, and safety guidelines.</p>