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Raypak H000079 High Pressure Switch User Manual

Essential guide for installation, operation, and maintenance.

PRODUCT OVERVIEW

The Raypak H000079 is a high-pressure switch designed to monitor and control pressure within a system, typically found in pool and spa heating units. Its primary function is to ensure safe operation by detecting abnormal pressure levels and signaling the system to adjust or shut down as needed. This component is crucial for protecting the heater from damage due to excessive pressure.



This image displays the Raypak H000079 High Pressure Switch. The component features a brass hexagonal fitting at one end, connected to a silver-colored cylindrical body. Extending from the other end of the body is a black connector from which a coiled length of bright yellow electrical wire emerges. The wire appears to be approximately 18 AWG and is marked for 600V and 125°C, indicating its electrical specifications.

INSTALLATION AND SETUP

Important Safety Information: Before attempting any installation or maintenance, ensure the power to the heating system is completely disconnected and the system has cooled down. Failure to do so can result in serious injury or damage to equipment. If you are unsure about any step, consult a qualified technician.

Tools Required:

- Adjustable wrench or appropriate size wrench for brass fitting
- Wire strippers/crimpers (if electrical connectors need to be replaced)
- Screwdriver (if access panels need removal)
- Thread sealant (e.g., PTFE tape or pipe dope)

Installation Steps:

1. **Disconnect Power:** Turn off all electrical power to the pool heater at the circuit breaker.
2. **Locate Existing Switch:** Identify the current high-pressure switch on your Raypak heater. Refer to your heater's specific manual for its exact location.
3. **Drain System (if necessary):** Depending on the switch's location, you may need to drain some water from the system to prevent spills.
4. **Disconnect Wiring:** Carefully disconnect the electrical wires from the old pressure switch. Note their original connection points.
5. **Remove Old Switch:** Use an adjustable wrench to unscrew the old pressure switch from its fitting. Be prepared for any residual water.
6. **Prepare New Switch:** Apply thread sealant (PTFE tape or pipe dope) to the threads of the new Raypak H000079 pressure switch.
7. **Install New Switch:** Carefully screw the new switch into the fitting. Tighten securely but do not overtighten.
8. **Connect Wiring:** Reconnect the electrical wires to the new switch. Ensure connections are secure and correct.
9. **Refill System (if necessary):** If water was drained, refill the system and check for leaks around the new switch.
10. **Restore Power:** Once installation is complete and checked, restore power to the heater.
11. **Test Operation:** Monitor the heater's operation to ensure the new pressure switch functions correctly.

OPERATING PRINCIPLES

The Raypak H000079 High Pressure Switch operates automatically as a safety device within your heating system. It continuously monitors the water pressure inside the heater. If the pressure exceeds a predetermined safe limit, the switch will open its electrical circuit, interrupting power to critical components (like the burner or pump) to prevent damage from over-pressurization. Once the pressure returns to a safe operating range, the switch will close the circuit, allowing normal operation to resume. There are no user-adjustable settings or direct operational controls for this component.

MAINTENANCE

The Raypak H000079 High Pressure Switch is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure its continued proper function:

- **Visual Inspection:** Annually inspect the switch and its wiring for any signs of corrosion, damage, or loose connections.
- **Leak Check:** Check the area around the switch for any water leaks, which could indicate a faulty seal or fitting.
- **System Pressure Monitoring:** Regularly monitor your heater's pressure gauge to ensure it operates within the manufacturer's recommended range. Consistent high pressure might indicate other system issues, not necessarily a faulty switch.

Do not attempt to disassemble the switch. If it is suspected to be faulty, it should be replaced.

TROUBLESHOOTING

If your Raypak heater is experiencing issues that you suspect are related to the high-pressure switch, consider the following:

Symptom	Possible Cause	Solution
Heater not firing / Error code related to pressure	<p>Low Water Flow: Insufficient water flow through the heater.</p> <p>Clogged Filter/Pump Issues: Restricted water flow due to dirty filter or pump malfunction.</p> <p>Faulty Pressure Switch: The switch itself may be defective, stuck open, or providing an incorrect reading.</p>	<p>Check Water Flow: Ensure adequate water flow to the heater.</p> <p>Inspect Filter/Pump: Clean or replace filter, check pump operation.</p> <p>Test Switch: A qualified technician can test the switch for continuity. If faulty, replace it.</p>
Heater cycles on and off rapidly (short cycling)	<p>Intermittent Pressure Issues: Fluctuations in water pressure.</p> <p>Failing Pressure Switch: The switch may be intermittently failing or nearing the end of its lifespan.</p>	<p>Check System Pressure: Monitor pressure gauge for stability.</p> <p>Replace Switch: If other causes are ruled out, consider replacing the pressure switch.</p>
Visible leak at switch connection	<p>Improper Seal: Insufficient thread sealant or damaged threads during installation.</p> <p>Cracked Fitting/Switch: Physical damage to the switch body or the mating fitting.</p>	<p>Re-install with Sealant: Disconnect power, drain, remove switch, reapply thread sealant, and re-install.</p> <p>Replace Damaged Parts: If cracked, replace the switch or fitting as needed.</p>

Always consult a qualified pool technician for complex issues or if you are uncomfortable performing these steps yourself.

SPECIFICATIONS

Attribute	Detail
Manufacturer	Raypak
Part Number	H000079
Item Model Number	H000079
Product Dimensions	1 x 1 x 1 inches
Item Package Quantity	1
Switch Style	Pressure Switch
ASIN	B00R8HASJQ
Date First Available	December 19, 2017

WARRANTY INFORMATION

Specific warranty terms for the Raypak H000079 High Pressure Switch are provided by the manufacturer. Please refer to the documentation included with your original Raypak heater or contact Raypak directly for detailed warranty coverage, terms, and conditions. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries regarding the Raypak H000079 High Pressure Switch, please contact Raypak customer support or your authorized Raypak dealer. You can typically find contact information on the official Raypak website or in your heater's main instruction manual.

Raypak Official Website: www.raypak.com

