

Raypak PR156AENC

Raypak PR156AENC 150,000 BTU Natural Gas Pool Heater User Manual

Model: P-R156A-EN-C | Part Number: 014784

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Raypak PR156AENC 150,000 BTU Natural Gas Pool Heater. Please read all instructions carefully before attempting to install or operate this unit. Retain this manual for future reference.

SAFETY INFORMATION

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.

- Ensure all gas and electrical connections are performed by qualified personnel in accordance with local codes and ordinances.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Never operate the heater if any part has been submerged in water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control that has been submerged in water.
- Keep the area around the heater clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

SETUP AND INSTALLATION

The Raypak PR156AENC heater is designed for above-ground pools and spas. Proper installation is critical for safe and efficient operation. It is highly recommended that installation be performed by a qualified and certified technician.

Electrical Requirements:

- The unit requires either 120V or 240V electrical supply. Consult the wiring diagram located inside the heater's control panel for specific connections.

- The power cord provided is approximately 3 feet long. If replacement is necessary, use a cable rated for 304 degrees.

Gas Connection:

- This heater operates on natural gas. Ensure your gas supply matches the heater's requirements.
- If your gas system is a 2 PSI system, an external gas regulator is required to reduce the pressure to approximately 1/4 PSI for proper ignition and operation. Failure to do so may result in ignition issues.

Water Connections:

- The heater features 2-inch water connections. Ensure proper plumbing and sealing to prevent leaks.





Figure 1: Front view of the Raypak PR156AENC Natural Gas Pool Heater, showing the control panel and general casing.

OPERATING INSTRUCTIONS

Once installed and all connections are verified, follow these steps for basic operation:

1. **Power On:** Ensure the heater is connected to a power source and the main power switch is in the "ON" position.
2. **Gas Supply:** Verify that the natural gas supply valve to the heater is open.
3. **Water Flow:** Confirm that water is flowing through the heater from your pool or spa pump. The heater will not operate without adequate water flow.
4. **Set Temperature:** Use the digital control panel to set your desired water temperature. The LCD screen will display the current and set temperatures.
5. **Ignition:** The heater will automatically initiate its ignition sequence. If ignition fails, the system will attempt to re-ignite. Refer to the troubleshooting section if repeated ignition failures occur.
6. **Monitoring:** Periodically check the LCD screen for operational status and any error codes.



Figure 2: Close-up view of the Raypak PR156AENC heater's control panel, typically featuring an LCD display and control buttons.

MAINTENANCE

Regular maintenance ensures the longevity and efficient performance of your Raypak pool heater. Always disconnect power and gas supply before performing any maintenance.

- **Water Chemistry:** Maintain proper pool/spa water chemistry, especially pH levels. Incorrect pH can lead to corrosion and damage to internal components like the heat exchanger.
- **Cleanliness:** Keep the area around the heater clean and free of debris, leaves, and other obstructions that could block airflow or create fire hazards.
- **Winterization:** In colder climates, proper winterization procedures are essential to prevent freeze damage. Consult a qualified technician or your local dealer for specific instructions.
- **Annual Inspection:** It is recommended to have a qualified service technician inspect the heater annually to check for wear, leaks, and proper operation of safety devices.

TROUBLESHOOTING

This section addresses common issues you might encounter with your heater. For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Heater not igniting / "Rollout Switch Error"	Insufficient gas pressure; faulty rollout switch; blocked flue.	Verify gas supply and pressure (ensure external regulator if 2 PSI system). Check for obstructions in the flue. A faulty rollout switch may need replacement.

Problem	Possible Cause	Solution
LCD screen is blank or flickering	Faulty LCD display board.	The LCD display board (Raypak 013640F) may need to be replaced. This can often be done by a user with technical aptitude.
Water leaking from the heater	Damaged heat exchanger; loose plumbing connections; corrosion due to improper water chemistry.	Inspect plumbing connections for tightness. Check pool/spa water chemistry, especially pH. A leaking heat exchanger typically requires professional replacement.
Heater not heating effectively	Low gas pressure; inadequate water flow; incorrect temperature setting; dirty burner.	Verify gas supply. Ensure pool pump is running and filters are clean. Confirm desired temperature setting. Professional inspection of burner and heat exchanger may be required.

SPECIFICATIONS

Feature	Detail
Model Number	P-R156A-EN-C
Part Number	014784
BTU Rating	150,000 BTU
Fuel Type	Natural Gas
Voltage	120V or 240V
Water Connections	2 inches
Elevation Rating	0-4999 ft
Dimensions (L x W x H)	27.5 x 27 x 12 inches
Item Weight	100 pounds
Material	Polymer Headers (corrosion resistant)
Mounting Type	Floor Mount
Special Features	Energy Efficient
Usage	Above-Ground Pools and Spas

WARRANTY INFORMATION

Raypak provides specific warranty terms for its products. It is important to understand these terms:

- **Customer Installed Units:** A warranty period of 90 days from the date of purchase typically applies to units installed by the customer.
- **Professionally Installed Units:** The warranty period may be extended up to 1 year if the unit is installed by a technician certified by the manufacturer. Proof of professional installation (e.g., receipt from a certified technician) is usually required to validate the extended warranty.





Always retain your proof of purchase and installation records. Warranty claims are subject to inspection and adherence to installation and maintenance guidelines, including proper water chemistry.

CUSTOMER SUPPORT

For technical assistance, parts, or warranty inquiries, please contact Raypak customer service. Ensure you have your model number (P-R156A-EN-C) and part number (014784) available when contacting support.

You can visit the official Raypak website for contact information and additional resources: [Raypak Store on Amazon](#)

Related Documents - PR156AENC

	<p>Raypak AVIA Gas-Fired Pool and Spa Heater Installation & Operation Manual (Models 264, 404)</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 Gas-Fired Pool & Spa Heater Installation and Operation Manual (Models 268 & 408)</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>Raypak PR336AEP57 332,500 BTU Heater Illustrated Parts List</p> <p>Illustrated parts list for the Raypak PR336AEP57 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>



[Raypak Hi-Delta 992-2342 Boiler: Operating and Installation Manual](#)

Comprehensive operating and installation instructions for the Raypak Hi-Delta 992-2342 boiler models (Type H, W, & P). Covers safety, installation codes, component location, water piping, gas supply, electrical connections, venting, controls, operation, maintenance, and warranty.



[Raypak AVIA Gas-Fired Pool and Spa Heater Installation and Operation Manual \(Models 264, 404\)](#)

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.