

Raypak 017738

Raypak Crosswind 30i Electric Pool Heat Pump Heater User Manual

Model: 017738

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Raypak Crosswind 30i Electric Swimming Pool Heat Pump Heater. The Crosswind 30i is a 28,000 BTU unit designed for both heating and cooling swimming pools and spas, featuring inverter technology for energy efficiency and quiet operation. It is suitable for both above-ground and in-ground pool applications up to 7500 gallons.

Please read all instructions thoroughly before attempting installation or operation. Retain this manual for future reference.

2. IMPORTANT SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury, death, or property damage.

- **Professional Installation Required:** This unit is not a plug-in device and requires hard wiring. Installation must be performed by a qualified and licensed electrician and pool professional in accordance with all local and national electrical and plumbing codes.
- **Electrical Hazard:** Ensure the unit is properly grounded. Disconnect all power before servicing. Do not operate the unit if the power cord or electrical components are damaged.
- **Water Connections:** Ensure all plumbing connections are secure and leak-free. Do not operate the unit without proper water flow.
- **Children Safety:** Keep children away from the unit during operation and maintenance.
- **Ventilation:** Ensure adequate airflow around the unit. Do not block air intake or exhaust vents.
- **Flammable Materials:** Do not store or use flammable liquids or vapors near the heat pump.

3. SETUP AND INSTALLATION

3.1 Unpacking and Inspection

Carefully remove the unit from its packaging. Inspect for any shipping damage. If damage is found, contact your supplier immediately. Ensure all components listed in the packing list are present.

3.2 Location Requirements

Select a location that provides adequate clearance for airflow, maintenance, and service. The unit should be installed on a solid, level surface capable of supporting its weight. Avoid locations prone to excessive debris or poor drainage.

3.3 Component Overview

Familiarize yourself with the main components of your Crosswind 30i heat pump.



Figure 1: Internal components of the Raypak Crosswind 30i heat pump, showing the LCD digital control, fan, evaporator coil, spiral titanium heat exchanger, and weatherproof plastic jacket.

3.4 Plumbing Connections

Connect the heat pump to your pool's filtration system. The unit uses 1-1/2 inch PVC unions for water connections. Ensure proper water flow direction as indicated on the unit. It is recommended to install a bypass valve system to allow for isolation of the heat pump for maintenance.



Figure 2: Rear view of the Raypak Crosswind 30i, illustrating the water inlet and outlet connections, along with warning labels.

3.5 Electrical Connection

The Raypak Crosswind 30i requires a 208/230V hard-wired electrical connection. This must be performed by a licensed electrician. Refer to the specifications section for minimum circuit size and maximum breaker amperage. Ensure all wiring complies with local and national electrical codes.

4. OPERATION

4.1 Control Panel Overview

The unit features an easy-to-read LCD digital display for control and monitoring.



Figure 3: Close-up view of the LCD digital control panel on the Raypak Crosswind 30i, used for setting temperature and operating modes.

4.2 Setting Temperature and Operating Modes

Use the buttons on the LCD display to set your desired pool or spa temperature. The unit can operate in both heating and cooling modes, allowing you to maintain a comfortable water temperature year-round. Consult the on-screen menu for mode selection and advanced settings.

4.3 Inverter Technology

The Crosswind 30i utilizes inverter technology, which intelligently adjusts the compressor speed based on the

heating or cooling demand. Instead of cycling on and off, the unit modulates its output to maintain the set temperature more efficiently and quietly. This results in lower energy consumption and more stable water temperatures.



Figure 4: Comparison graph showing the consistent and modulated operation of inverter technology (red line) versus the on/off cycling of traditional systems (grey line), highlighting energy efficiency.

4.4 WiFi Connectivity

The unit is equipped with WiFi capabilities, allowing for remote monitoring and control through a compatible application. Refer to the separate WiFi setup guide for detailed instructions on connecting your device.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your heat pump.

- **Coil Cleaning:** Periodically inspect and clean the evaporator coil to remove leaves, dirt, and other debris that can obstruct airflow. Use a soft brush or vacuum cleaner.
- **Fan Inspection:** Ensure the fan blades are free from obstructions and rotate smoothly.
- **Drainage:** Verify that the condensate drain is clear and free-flowing.
- **Winterization:** In colder climates, proper winterization procedures are essential to prevent damage from freezing. Consult a pool professional for specific instructions for your region.
- **Professional Service:** It is recommended to have the unit inspected by a qualified technician annually.



Figure 5: Side view of the Raypak Crosswind 30i, highlighting the evaporator coil which requires periodic cleaning for efficient operation.

6. TROUBLESHOOTING

Before contacting customer support, review the following common issues and solutions.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Unit not heating/cooling	Insufficient water flow, power supply issue, incorrect temperature setting, dirty coils.	Check pump operation, verify power, adjust settings, clean coils.
Error code on display	Specific system fault.	Refer to the unit's display for the specific error code and consult the full service manual or contact support.
Unusual noise	Debris in fan, loose components, compressor issue.	Inspect fan for obstructions, check for loose panels. If noise persists, contact a professional.

If the problem persists after attempting these solutions, contact a qualified service technician.

7. SPECIFICATIONS

Key specifications for the Raypak Crosswind 30i heat pump:

- **Model Number:** 017738
- **Heating/Cooling Capacity:** 28,000 BTU
- **Electrical Requirements:** 208/230V, Hard Wired
- **Product Dimensions (L x W x H):** 39.02 x 13.39 x 25.87 inches
- **Item Weight:** 59.9 pounds
- **Manufacturer:** Raypak
- **Heat Exchanger:** Spiral Titanium

7.1 Dimensional Drawing and Performance Data

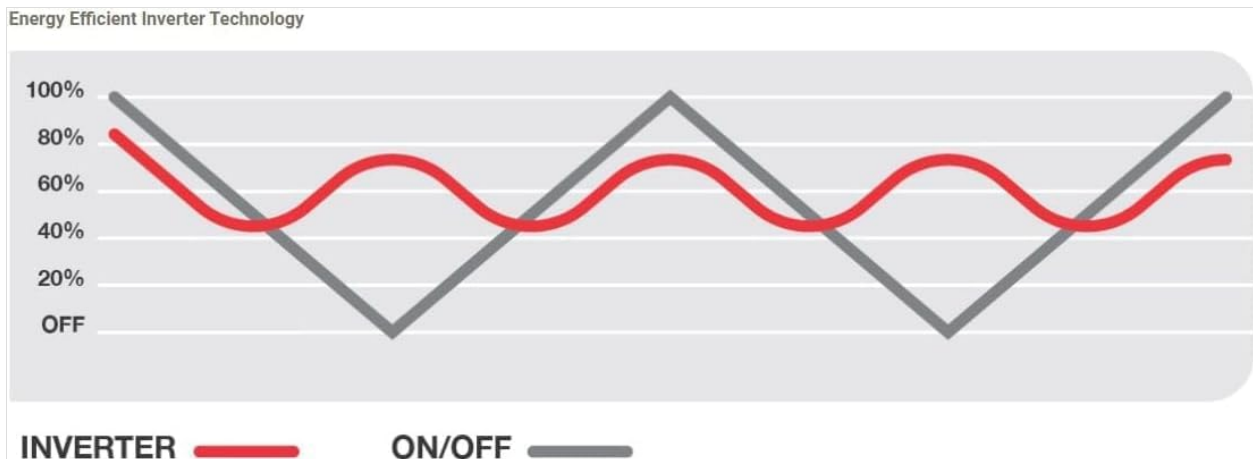


Figure 6: Dimensional drawing and performance table for Raypak Crosswind Pool and Spa Heater Models 30-I, 50-I, and 65-I. Refer to the '30-I' row for specific data related to this model.

8. WARRANTY INFORMATION

Raypak products are covered by a manufacturer's warranty. For specific details regarding the warranty period, coverage, and terms and conditions for your Crosswind 30i heat pump, please refer to the official warranty documentation included with your product or visit the Raypak website. Keep your proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Raypak customer support or your authorized Raypak dealer. It is recommended to have your model number (017738) and serial number available when contacting support.

Raypak Contact Information: Please refer to the official Raypak website or product packaging for the most current contact details.