

BLACK+DECKER 80,000 BTU

BLACK+DECKER 80,000 BTU Pool Heat Pump Instruction Manual

Model: 80,000 BTU

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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your BLACK+DECKER 80,000 BTU Energy-Saving Pool Heat Pump. This heat pump is designed to warm inground and above-ground pools up to 15,000 gallons, ensuring comfortable water temperatures. It features a corrosion-resistant titanium heat exchanger suitable for both fresh and saltwater pools. The unit incorporates a microprocessor for automatic performance monitoring, optimizing energy efficiency and reducing operational costs.

Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and to prevent potential hazards. Keep this manual for future reference.

Titanium heat exchanger provides maximum heat transfer and sanitizer resistance



Figure 1: Overview of the BLACK+DECKER 80,000 BTU Pool Heat Pump. The titanium heat exchanger provides maximum heat transfer and resistance to sanitizers, ensuring durability and efficient heating.

2. SAFETY INFORMATION

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

- Always disconnect power to the unit before performing any service or maintenance.
- Installation and electrical wiring must be performed by a qualified professional in accordance with all local and national electrical codes.
- Ensure proper grounding of the unit.
- Do not operate the heat pump if any part is damaged or missing.
- Keep children and pets away from the unit during operation.
- Do not block the air intake or exhaust vents of the heat pump.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. SETUP & INSTALLATION

Proper installation is crucial for the performance and longevity of your pool heat pump. It is recommended that installation be performed by a qualified technician.

3.1 Placement

- Place the heat pump on a solid, level surface.
- Ensure adequate clearance around the unit for proper airflow (refer to local codes and manufacturer recommendations for specific distances).
- Avoid placing the unit near shrubs or other obstructions that could impede airflow.

3.2 Plumbing Connections

The heat pump uses 2-inch quick disconnect pipe unions for easy connection to your pool's filtration system.



2" Quick Disconnect Pipe Unions

Figure 2: The 2-inch quick disconnect pipe unions facilitate straightforward plumbing connections for the inlet and outlet.

- Connect the pool water return line to the heat pump's inlet.
- Connect the heat pump's outlet to the pool water return line.
- Ensure all connections are secure and watertight.

3.3 Electrical Connections

Electrical installation must comply with all local and national electrical codes. This unit requires a 208-230V power supply.

- A dedicated circuit with a minimum 40 Amp breaker and a maximum 60 Amp breaker is required.
- Use copper supply wires only.
- The unit features an easy-to-access wiring hub for simplified electrical connections.
- An easy-to-run electricity line through the unit design aids in neat wiring.

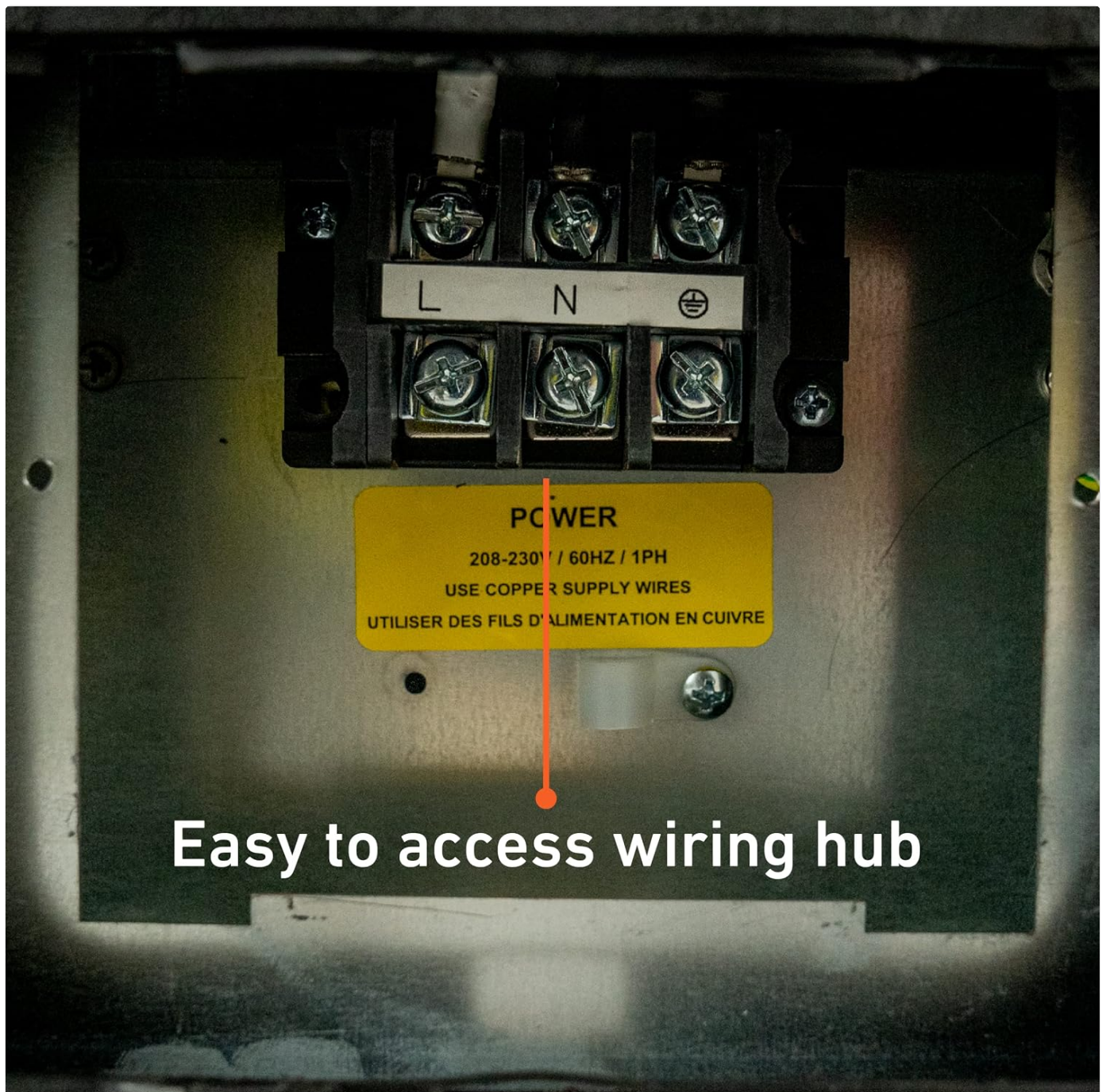


Figure 3: The wiring hub provides clear terminals for electrical connections (L, N, Ground).



Easy to run electricity line
through unit

Figure 4: The unit's design allows for an easy path to run the electricity line, simplifying installation.

4. OPERATING INSTRUCTIONS

The BLACK+DECKER pool heat pump features a user-friendly interface with easy-to-read LED indicators and a programmable thermostat for optimal control.



Figure 5: The control panel features a digital display and buttons for setting the programmable thermostat and other functions.

4.1 Initial Startup

1. Ensure all plumbing and electrical connections are correctly made and secured.
2. Turn on the pool pump to ensure water flow through the heat pump.
3. Turn on the electrical power to the heat pump at the breaker.
4. Press the power button on the control panel.
5. Set your desired water temperature using the programmable thermostat.

4.2 Setting Temperature

- Use the up/down arrows on the control panel to adjust the target water temperature.
- The unit will automatically begin heating the water until the set temperature is reached.
- The LED indicators will show the current status of the unit (e.g., "Heating").

4.3 Energy Saving Operation

The heat pump utilizes an evaporation condenser to compress warm, ambient air into hot water, efficiently heating your pool. Its microprocessor continuously monitors performance to maintain maximum efficiency.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your BLACK+DECKER pool heat pump.

5.1 Routine Checks

- **Clean the Coils:** Periodically inspect and clean the evaporator coils to remove any debris, leaves, or dirt that may obstruct airflow. Use a soft brush or vacuum cleaner.
- **Check Airflow:** Ensure that the area around the heat pump is free from obstructions to allow for proper airflow.
- **Inspect Plumbing:** Check for any leaks or damage to the plumbing connections.
- **Monitor Water Chemistry:** Maintain proper pool water chemistry to prevent corrosion and scale buildup, especially given the titanium heat exchanger's resistance to sanitizers.

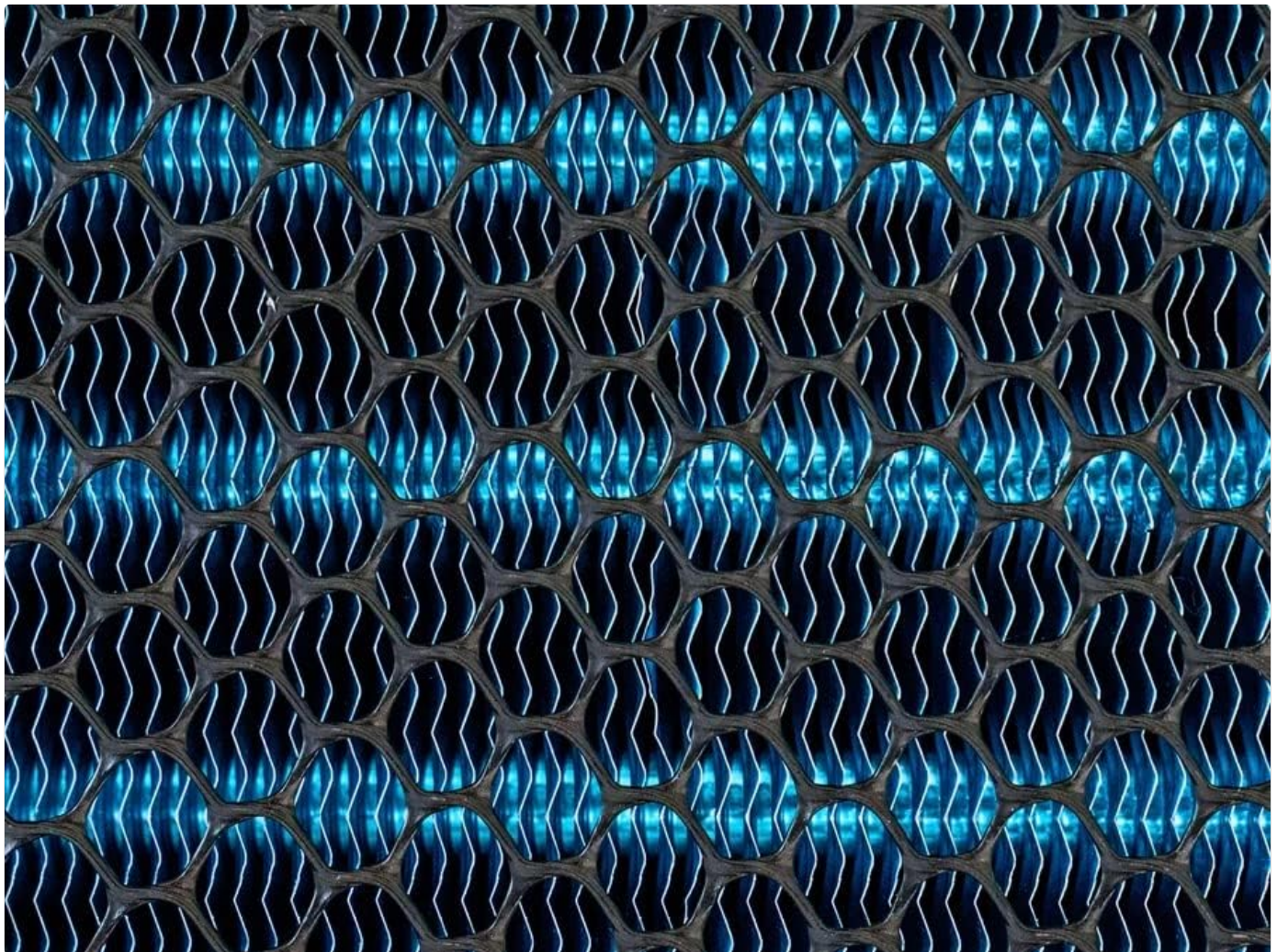


Figure 6: Detail of the heat exchanger fins. Keeping these clean is vital for efficient heat transfer.

5.2 Winterization

Before freezing temperatures arrive, it is essential to properly winterize your heat pump to prevent damage.

1. Turn off the heat pump and disconnect its power supply at the breaker.
2. Drain all water from the heat pump and plumbing lines to prevent freezing.
3. Cover the unit with a protective, breathable cover to shield it from elements.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here or if issues persist, contact customer support.

Problem	Possible Cause	Solution
Heat pump not turning on	No power; tripped breaker; faulty wiring	Check power supply and breaker. Verify wiring connections. Consult a qualified electrician if necessary.
Insufficient heating	Low ambient air temperature; dirty coils; insufficient water flow; incorrect temperature setting	Ensure ambient temperature is within operating range. Clean evaporator coils. Check pool pump operation and filter. Verify temperature setting.
Unit making unusual noise	Loose components; fan obstruction; compressor issue	Inspect for loose parts or obstructions. If noise persists, contact customer support.
Water leaks	Loose plumbing connections; damaged seals	Tighten connections. Inspect and replace damaged seals if needed.

7. SPECIFICATIONS

Feature	Detail
Model	80,000 BTU Pool Heat Pump
Heating Capacity	80,000 BTU
Recommended Pool Size	Up to 15,000 Gallons (Inground and Above Ground)
Power Supply	208-230V, 60Hz, 1PH
Breaker Requirement	40 Amp minimum, 60 Amp maximum
Heat Exchanger Material	Corrosion-resistant Titanium
Pipe Connections	2-inch Quick Disconnect Pipe Unions
Product Dimensions	27 x 27 x 38 inches
Item Weight	240 pounds
Manufacturer	Blue Torrent Pool Products

8. WARRANTY & SUPPORT

Your BLACK+DECKER Pool Heat Pump is backed by a limited warranty, ensuring years of trouble-free performance. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact the manufacturer.

Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact the manufacturer or your authorized dealer.

- **Manufacturer:** Blue Torrent Pool Products
- **Seller:** Pool Parts To GO (for purchases made via Amazon)
- Refer to your purchase documentation for direct contact information.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question