

Beacon Pet 3KW

Beacon Pet 3KW 220V Portable Electric Pool Heater Thermostat User Manual

Model: 3KW

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Beacon Pet 3KW 220V Portable Electric Pool Heater Thermostat. Please read these instructions thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Improper installation or use can lead to serious injury or death.

- Always disconnect power before performing any installation or maintenance.
- This unit requires professional electrical installation. It must be wired to a new, dedicated electrical circuit with appropriate overcurrent protection.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Do not install the thermostat outlet directly in the middle of a pipe, valve, or check valve leading to the bathtub or pool.
- Ensure adequate water pressure is maintained for proper operation. Insufficient water flow can damage the unit.
- The recommended pump power for optimal performance is 500 watts or greater.
- This heater is designed for pools with a water volume not exceeding 3 cubic meters (approximately 790 gallons).
- Keep children and unauthorized persons away from the unit during operation.

3. PRODUCT OVERVIEW

The Beacon Pet 3KW 220V Portable Electric Pool Heater Thermostat is designed to maintain a consistent water temperature in small swimming pools, spas, and baths. It features an automatic thermostat function to regulate heating efficiently.

3.1 Components

- Heater Unit with integrated thermostat
- Temperature Control Knob
- Manual Reset Button
- Water Inlet and Outlet Connections
- Electrical Wiring (for connection to power supply)
- Interface Connectors (typically 2 included)



Figure 1: The Beacon Pet 3KW Pool Heater Thermostat, showing the main unit, two white interface connectors, and the electrical wiring bundle. The unit is positioned in front of a hot tub, illustrating its intended use.



Figure 2: A detailed view of the Beacon Pet 3KW Pool Heater Thermostat, highlighting its dimensions: approximately 265mm in length, 180mm in width, and 125mm in height. The control knob and manual reset button are visible on the top surface.

4. INSTALLATION

Proper installation is critical for the safe and efficient operation of your pool heater. If you are unsure about any step, consult a qualified professional.

4.1 Placement

- Install the heater in a location that is easily accessible for maintenance and away from direct sunlight or extreme weather conditions.
- Ensure the unit is installed on a stable, level surface.

4.2 Plumbing Connections

- Connect the water inlet (50mm) and outlet (32mm) to your pool or spa's circulation system.

- Ensure all plumbing connections are watertight to prevent leaks.
- Do not install any valves or check valves directly at the thermostat's outlet to the tub.

4.3 Electrical Wiring

This unit requires a 220V-240V power supply. Electrical installation must be performed by a qualified electrician.

- Connect the heater to a dedicated 220V-240V circuit.
- The unit operates at 3KW and draws 13.6A. Ensure your circuit breaker and wiring are rated appropriately.
- The heater needs to be wired up to a new plug or directly to a junction box according to local electrical codes.



Figure 3: An installation diagram illustrating the water flow (influent and outlet) through the heater and a schematic of the electrical connections (Stromkabel - power cable, Schalter - switch, Reset - reset button, Heizlampe - heating lamp). This diagram helps visualize the plumbing and electrical setup.

5. OPERATING INSTRUCTIONS

Once installed and connected, operating the Beacon Pet pool heater is straightforward.

5.1 Initial Startup

- Ensure the pool/spa is filled with water and the circulation pump is running.
- Verify that there is sufficient water flow through the heater.
- Turn on the power supply to the heater.

5.2 Setting Temperature

- Use the temperature control knob on the unit to set your desired water temperature. The thermostat can maintain temperatures up to 40 °C (104 °F).
- The heater will automatically activate to reach the preset temperature.
- Once the preset temperature is reached, the heater will stop. It will automatically reactivate if the water temperature drops a few degrees below the set point.



Figure 4: A close-up view of the Beacon Pet Pool Heater Thermostat, prominently displaying the temperature control knob with 'HOT' and 'COOL' indicators, and the 'MANUAL RESET' button. The unit is shown with a scenic pool background.

5.3 Heating Performance

- When starting with cold water, the heater typically elevates temperatures by 6 to 8 °C per hour.
- Actual heating time may vary based on pool volume, ambient temperature, and insulation.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your pool heater.

- **Regular Cleaning:** Periodically inspect the heater for any debris or mineral buildup. Clean as necessary, ensuring power is disconnected first.
- **Water Quality:** Maintain proper water chemistry in your pool or spa to prevent scale buildup and corrosion within the heater.
- **Flow Check:** Ensure consistent water flow through the unit. Reduced flow can lead to overheating and damage.
- **Winterization:** If the unit will be exposed to freezing temperatures, drain all water from the heater to prevent freeze damage.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Heater not turning on	No power supply Low water pressure/flow Manual reset tripped	Check circuit breaker and electrical connections Ensure pump is running and water pressure is adequate Press the 'MANUAL RESET' button on the unit
Water not heating sufficiently	Incorrect temperature setting Pool volume too large Poor insulation Low ambient temperature	Adjust temperature knob to a higher setting Ensure pool volume is within recommended 3m³ limit Consider pool cover or enclosure Heating rate is slower in colder conditions
Heater cycles on/off too frequently	Normal operation (automatic thermostat) Sensor issue	This is normal if the temperature is maintained. If cycling is excessive, contact support. Contact support if suspected sensor malfunction.
Leaks from connections	Loose plumbing connections Damaged seals	Tighten connections Inspect and replace seals if necessary

If you encounter problems not listed here or if solutions do not resolve the issue, please contact Beacon Pet customer support.

8. SPECIFICATIONS

- **Input Voltage:** 220V - 240V
- **Power:** 3KW
- **Current:** 13.6A
- **Frequency:** 50/60Hz
- **Phase Parameters:** Single phase
- **Dimensions (approx.):** 18 cm (7.08 in) x 12.5 cm (4.92 in) x 12.5 cm (4.92 in)
- **Water Intake Diameter:** 50mm

- **Water Outlet Diameter:** 32mm
- **Maximum Temperature:** 40 °C (104 °F)
- **Recommended Pool Volume:** Not exceeding 3m³
- **Recommended Pump Power:** 500W or better

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact Beacon Pet customer service through their official channels. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

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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.

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