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Mxmoonant 5.5KW

Mxmoonant Pool Heater 5.5KW 220V User Manual

Model: 5.5KW | Brand: Mxmoonant

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Mxmoonant 5.5KW 220V Electric Pool Heater. Please read all instructions carefully before use to ensure proper function and longevity of the product.

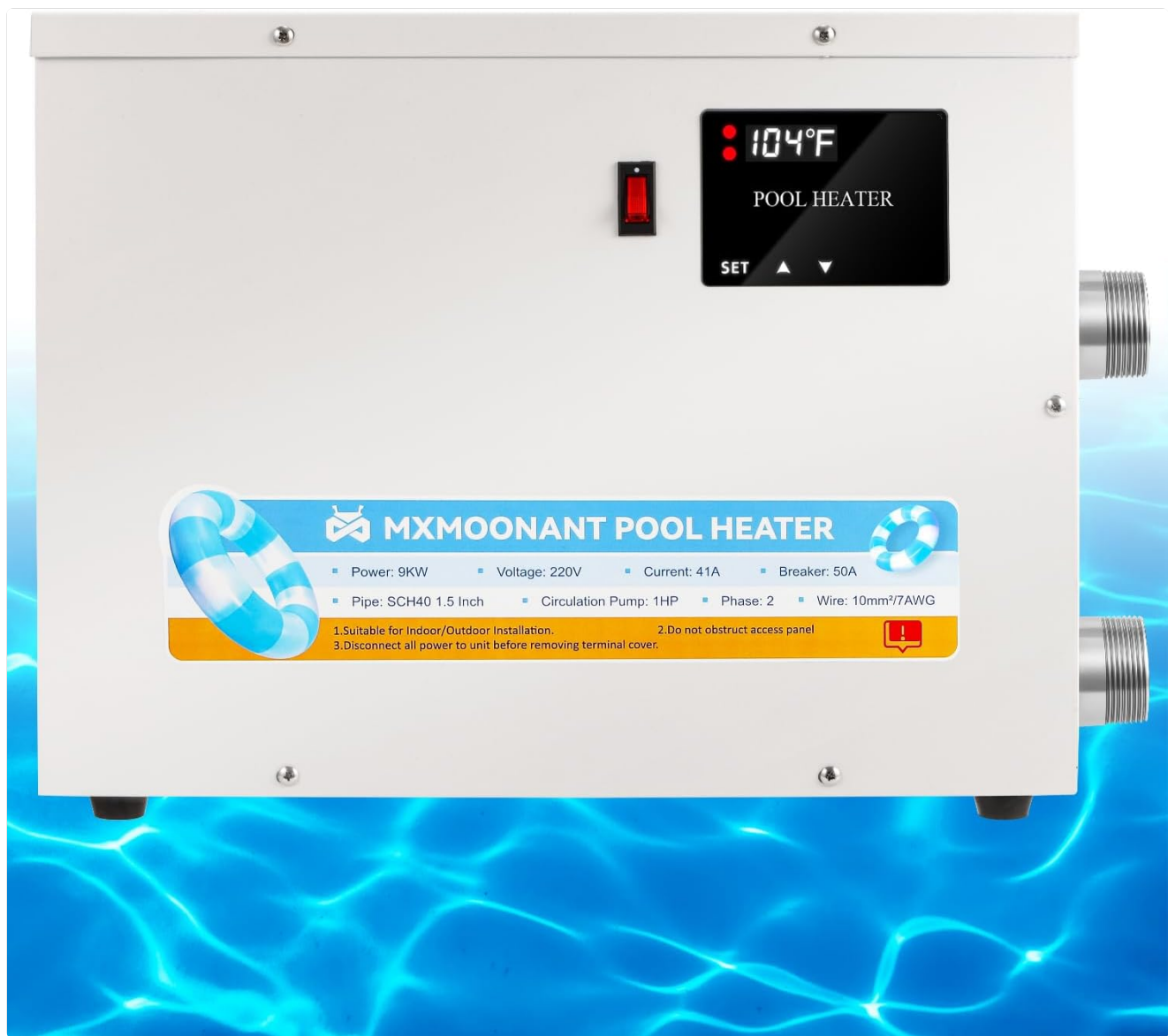


Figure 1: Mxmoonant 5.5KW 220V Electric Pool Heater unit.

SAFETY INFORMATION

- **Electrical Safety:** Installation must comply with local electrical codes and standards. Ensure proper grounding. For 220-240V regions, connect one ground wire and two hot wires.
- **GFCI Breaker:** It is recommended to use a Ground-Fault Circuit-Interrupter (GFCI) breaker for enhanced safety.
- **Dry Burning Prevention:** The heater is equipped with a pressure switch. If water pressure drops below 15kPa, the heater will shut off to prevent dry burning.
- **High Temperature Protection:** A high-temperature protection switch will trip (cut off power) if the water temperature reaches 50°C due to insufficient water flow or blockage.
- **Professional Installation:** Due to electrical and plumbing requirements, professional installation is highly recommended.
- **Water Flow:** Ensure adequate water flow through the heater. Insufficient flow can lead to improper heating or safety shutdowns.

PRODUCT OVERVIEW AND FEATURES

The Mxmoonant 5.5KW Electric Pool Heater is designed to maintain a stable and comfortable water temperature for various applications including spas, hot tubs, bathtubs, and swimming pools. Key features include:

- **Self-Heating Function:** Automatically stops heating when the preset temperature is reached and restarts when the temperature falls below the set point.
- **Dry Burning Prevention:** Integrated pressure switch protects the unit from damage due to low water levels or insufficient flow.
- **High Temperature Protection:** Safety mechanism to prevent overheating if water flow is interrupted or blocked.
- **Touchscreen Display:** Intuitive interface for precise temperature setting and monitoring.
- **Durable Heating Element:** Features an upgraded 316 stainless steel heating element for longevity and efficient heat transfer.








Figure 2: Illustration of the upgraded 316 stainless steel heating element.

SPECIFICATIONS

Specification	Value
Power	5.5KW
Voltage	AC220-240V
Product Dimensions	18.7 x 3.93 x 13.77 inches
Item Weight	18.91 pounds
Plumbing Size	SCH40 1.5" PVC
Circulation Pump Requirement	≥1HP
Breaker Required (for 5.5KW)	40A
Wire (for 5.5KW)	10AWG
Ideal Capacity (for 5.5KW)	700 Gallons

Figure 3: Detailed product specifications for the Mxmoonant Pool Heater.

PRODUCT SPECIFICATION

					
Power	5.5KW	9KW	11KW	15KW	18KW
Voltage	220V	220V	220V	220V	220V
Phase	2	2	2	2	2
Current	25A	41A	50A	68.2A	81A
Breaker Required	40A	50A	60A	90A	110A
Wire	10AWG	7AWG	7AWG	4AWG	2AWG
Plumbing Size	SCH40 1.5" PVC				
Circulation Pump	≥1HP				
Ideal Capacity	700Gals	1000Gals	1300Gals	1500Gals	2000Gals

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your pool heater. It is highly recommended that a qualified electrician and plumber perform the installation.

1. Plumbing Connections

- The pool heater is equipped with 1.5-inch PVC connectors. You should use SCH40 1.5-inch PVC pipe for plumbing installation.
- If using other pipe sizes, ensure to start with 1.5-inch connections at the heater and adapt as necessary.
- A circulation pump is required. The power of the circulation pump should be more than 1HP. Using a pump with less than 1HP may cause insufficient water flow.
- Do not use booster pumps or submersible pumps; only a circulation pump is suitable.
- Ensure the water flow direction matches the arrows on the heater unit (water flows from the pump, through the heater, and back to the pool/spa).

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Video 1: Mxmoonant Pool Thermostat Installation Guide. This video demonstrates the plumbing and electrical connections for the pool heater, including pipe sizing and pump requirements.

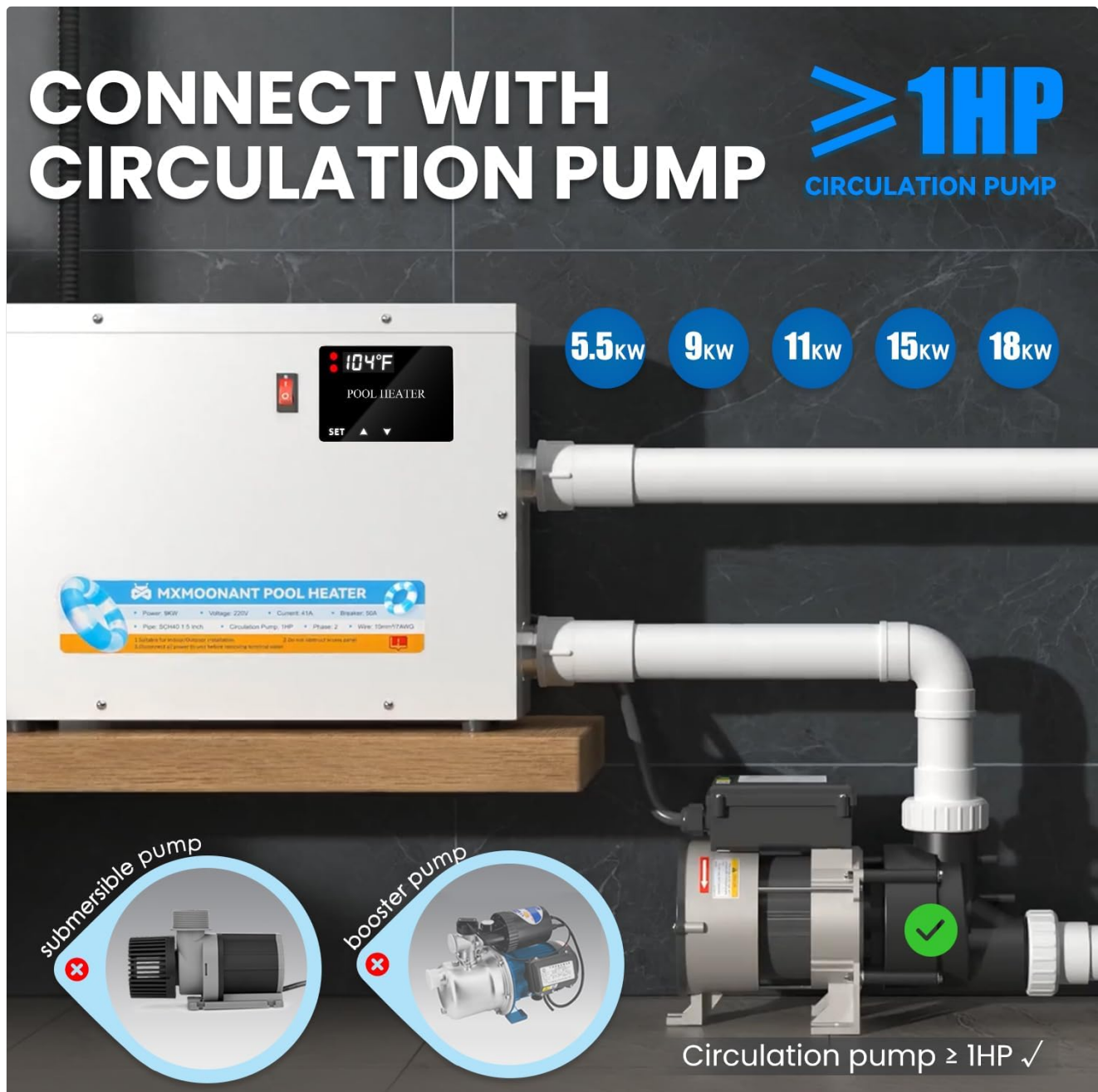


Figure 4: Diagram illustrating the correct connection of the circulation pump to the pool heater, emphasizing the 1HP minimum requirement.

2. Electrical Connections

- Loosen the screws on the top cover of the heater to access the wiring terminal.
- For 220-240V systems, connect one ground wire (GND) and two hot wires (L1, L2) to the designated terminals.
- Ensure all wiring complies with local electrical standards to guarantee safe operation.
- Select the appropriate breaker based on the heater's power: for 5.5KW, a 40A breaker is required.
- Use 10AWG wire for the 5.5KW model.

CIRCUIT CONNECTION

Note that the item requires self wiring 

The pool heater operates on 220V.
In North America (110V standard), it requires one ground wire and two live wires.

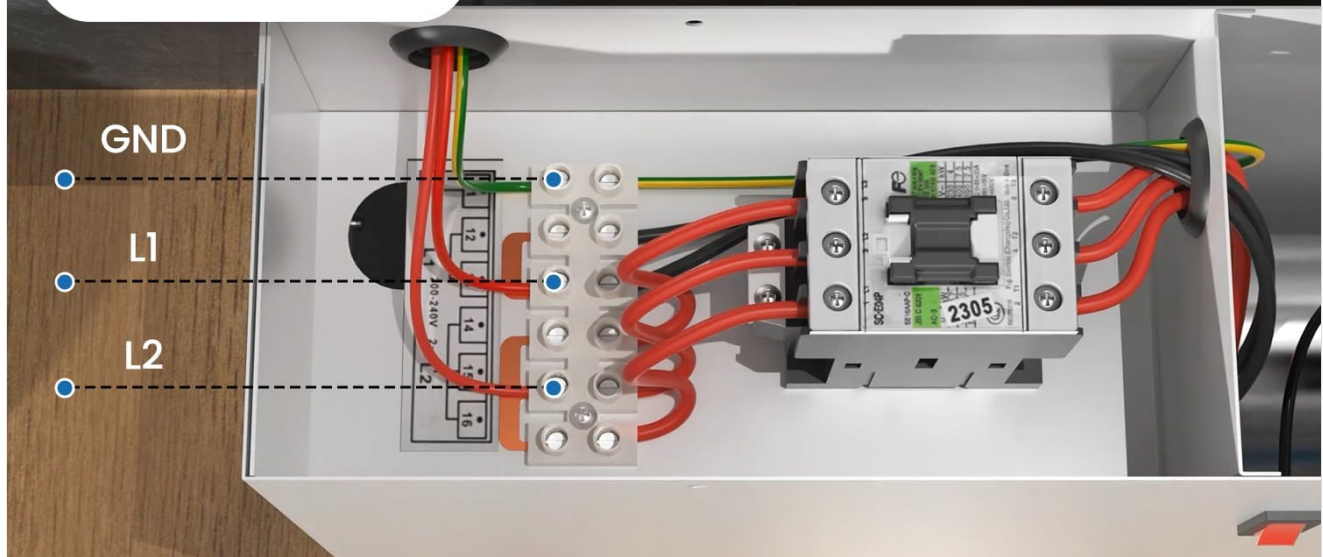
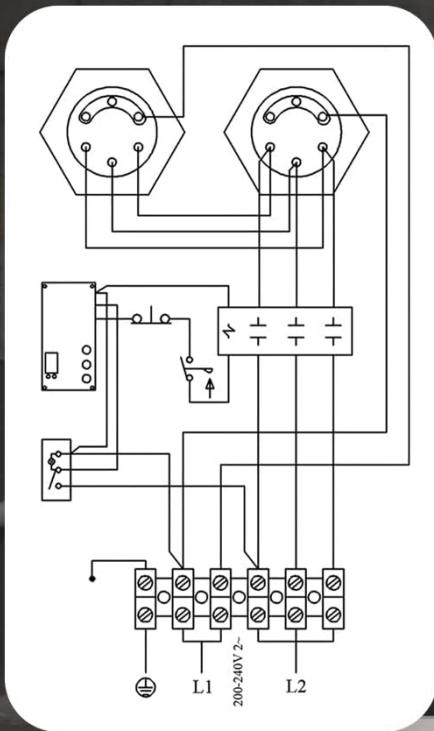


Figure 5: Detailed diagram for electrical circuit connection, showing GND, L1, and L2 terminals.

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Video 2: Installation and Operation Test. This video provides a visual guide to the installation process, including plumbing and electrical setup, and initial operation.

OPERATING INSTRUCTIONS

The Mxmoonant Pool Heater features a user-friendly touchscreen display for easy temperature control.

- **Power On:** Ensure all plumbing and electrical connections are secure. Turn on the main power supply to the heater.
- **Initial Self-Test:** Upon powering on, the unit may perform a self-test. The display panel will show indicators for water flow and heating status.
- **Temperature Setting:** Use the "SET" button and arrow keys (up/down) on the touchscreen to adjust your desired water temperature. The temperature range is typically from 77°F to 122°F (25°C to 50°C).

- **Indicators:**

- A flow indicator light (e.g., red dot 1) indicates normal water flow.
- A heating indicator light (e.g., red dot 2) indicates the heater is actively heating.
- Both indicators must be ON for the machine to work properly.

- **Automatic Operation:** Once the desired temperature is set, the heater will automatically maintain it, turning on and off as needed to keep the water within the set range.



Figure 6: Touchscreen display showing temperature setting and indicators.

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Video 3: Mxmoonant Pool Thermostat Operation. This video demonstrates how to power on the unit, set the desired temperature, and understand the indicator lights.

WORKING PRINCIPLE

The Mxmoonant Pool Heater operates on a circulation principle to efficiently heat your pool or spa water. Water is drawn from the pool/spa by a circulation pump and then flows through the heater's internal heating element. As the water passes over the element, it absorbs heat, increasing its temperature. The heated water is then returned to the pool/spa, creating a continuous cycle until the desired temperature is achieved and maintained.

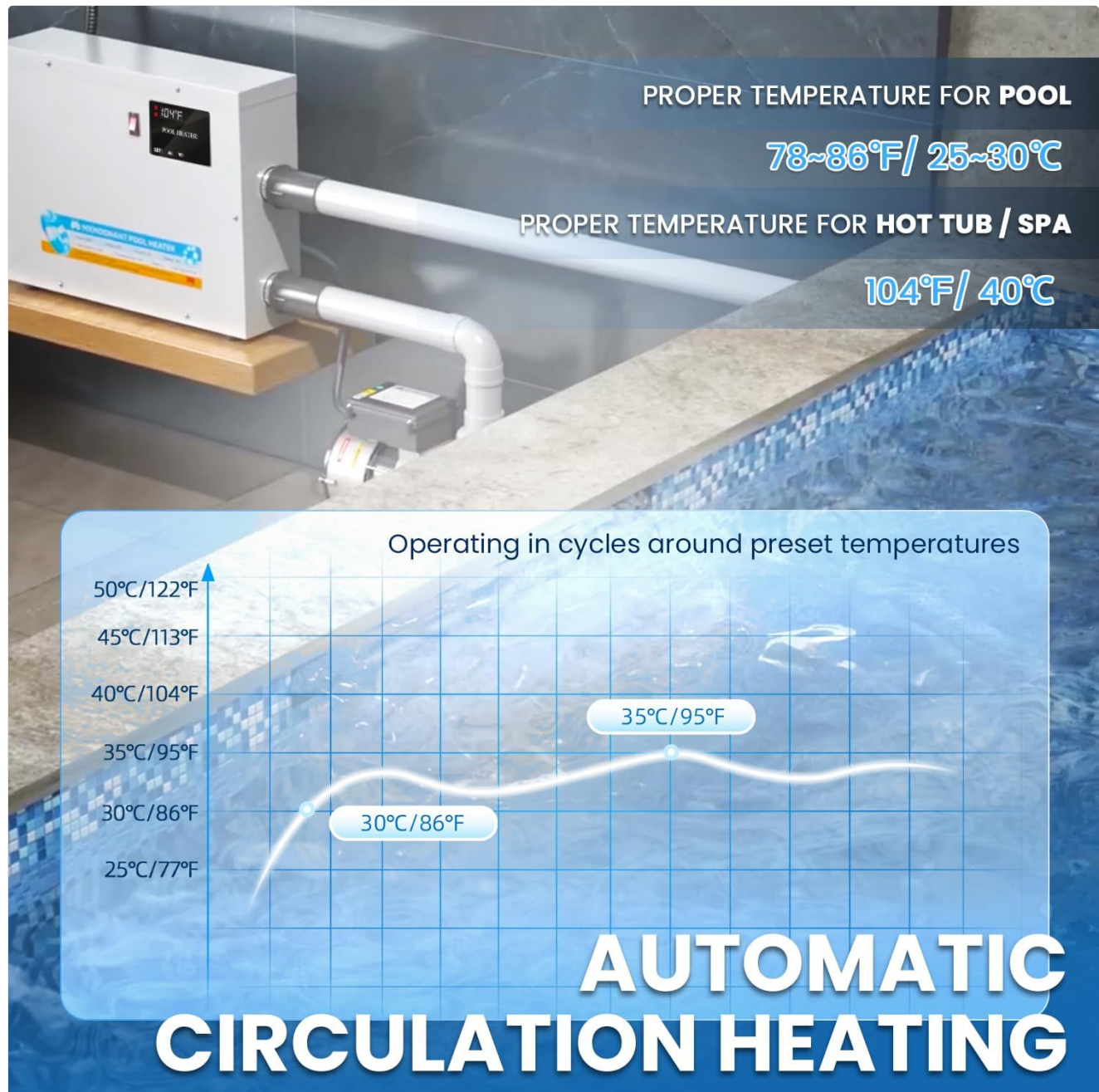


Figure 7: Illustration of the automatic circulation heating process, showing water temperature cycles around preset values.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Mxmoonant Pool Heater.

- **Water Quality:** Maintain proper water chemistry (pH, alkalinity, sanitizer levels) to prevent scale buildup and corrosion within the heater.
- **Filter Maintenance:** Regularly clean or replace your pool/spa filter to ensure optimal water flow and prevent debris from entering the heater.

- **Winterization:** In colder climates, properly winterize your heater to prevent freezing damage. This typically involves draining the unit and pipes completely. Consult a pool professional if unsure.
- **Visual Inspection:** Periodically inspect the heater and all connections for any signs of leaks, corrosion, or damage. Address any issues promptly.
- **Power Disconnection:** Always disconnect power to the heater before performing any maintenance or service.

TROUBLESHOOTING

If you encounter issues with your Mxmoonant Pool Heater, refer to the following common troubleshooting steps:

- **No Heating:**
 - Check if the power supply is on and the breaker has not tripped.
 - Verify that the circulation pump is running and there is adequate water flow. The flow indicator light on the display should be ON.
 - Ensure the desired temperature is set correctly and is higher than the current water temperature.
 - Check for any blockages in the plumbing system that might restrict water flow.
- **Heater Trips Breaker:**
 - This could indicate an electrical fault. Immediately turn off the power and consult a qualified electrician.
 - Check for proper wiring connections and ensure the correct amperage breaker is installed.
- **Insufficient Heating:**
 - Ensure the pool/spa volume is within the recommended capacity for the 5.5KW heater (approx. 700 gallons).
 - Check for proper insulation of the pool/spa, especially in colder environments.
 - Verify that the circulation pump is of sufficient power (≥ 1 HP).
 - Consider ambient temperature and initial water temperature, as these affect heating time.

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Video 4: Tips for Mxmoonant Pool Thermostat. This video offers additional tips and troubleshooting advice for common operational issues.

WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the documentation included with your product or contact Mxmoonant customer service directly. Keep your purchase receipt as proof of purchase.

Protection Plan: A 3-Year Protection Plan is available for purchase separately. Please refer to the product listing or contact the seller for details.

