Mxmoonant 5.5KW

Mxmoonant Pool Heater 5.5KW 220V User Manual

Model: 5.5KW

1. Introduction

Thank you for choosing the Mxmoonant 5.5KW 220V Electric Swimming Pool Heater. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new pool heater. Please read this manual thoroughly before installation and use, and retain it for future reference.

This electric pool heater is designed to maintain a comfortable water temperature for various applications including above-ground and in-ground pools, spas, and bathtubs. It features an intelligent control system with a touchscreen display for easy temperature management and built-in safety mechanisms.

2. Important Safety Instructions

WARNING: Failure to follow these instructions can result in electric shock, fire, or serious injury.

- Always disconnect power to the unit before performing any service or maintenance.
- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Ensure proper grounding to prevent electric shock.
- Do not operate the heater if the water pressure drops below 15kPa, as this can lead to dry burning. The unit has a built-in pressure switch for protection.
- The heater is equipped with a high-temperature protection switch that trips if the water temperature reaches 50°C due to lack of flow or blockage.
- This heater operates on 220-240V AC. For North American 110V standard, self-wiring is required with one ground wire and two live wires.
- Ensure the circulation pump is at least 1HP for proper operation.
- Do not touch the internal components or wiring unless you are a qualified professional and the power is disconnected.

3. Product Specifications

Mxmoonant Pool Heater 5.5KW Specifications

Parameter	Value (5.5KW Model)
Power	5.5KW

Parameter	Value (5.5KW Model)
Voltage	AC220-240V
Phase	2
Current	25A
Breaker Required	40A
Wire Gauge	10AWG
Plumbing Size	SCH40 1.5" PVC
Circulation Pump Requirement	≥1HP
Ideal Capacity	700 Gallons
Product Dimensions (L x W x H)	18.7 x 3.93 x 13.77 inches
Item Weight	18.91 pounds

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

Image: Detailed product specification table for various models, highlighting the 5.5KW model's parameters.

4. Setup and Installation

4.1. Pre-Installation Checklist

- Verify that the power supply matches the heater's voltage (220-240V AC).
- Ensure a dedicated circuit with the required breaker size (40A for 5.5KW model) is available.
- Confirm you have a circulation pump with a minimum of 1HP.
- Gather necessary plumbing materials, including SCH40 1.5" PVC pipes and fittings.
- Choose a suitable location for the heater, ensuring it is protected from direct weather exposure and has adequate ventilation.

4.2. Plumbing Connection

The heater should be installed in line with your pool's filtration system, typically after the filter and before any chemical feeders. Ensure a circulation pump of at least 1HP is used to provide adequate water flow through the heater.

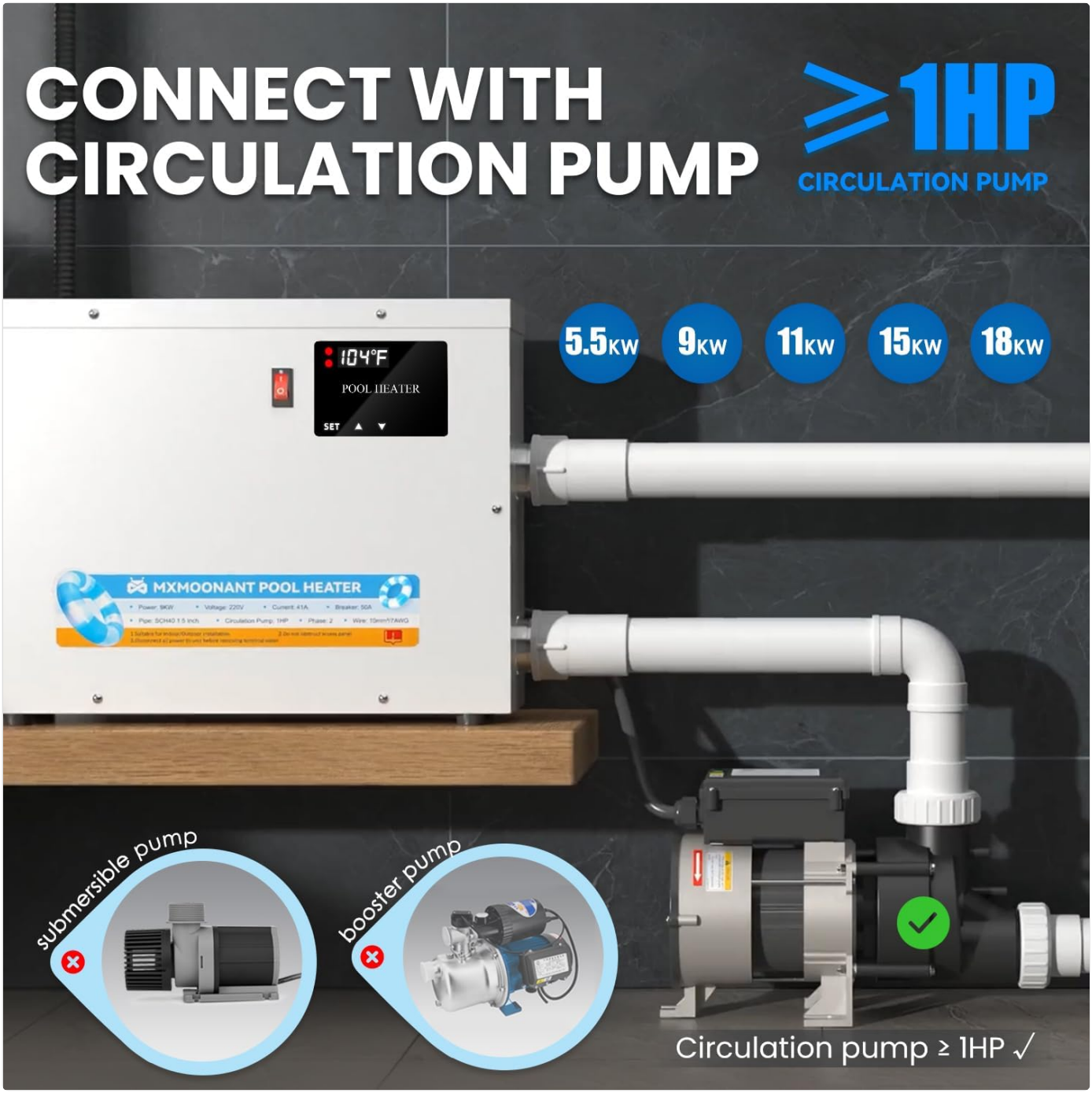

Image: Illustration demonstrating the correct connection of the pool heater with a circulation pump (≥1HP). Submersible and booster pumps are shown as incorrect examples.

Use SCH40 1.5" PVC pipes for all plumbing connections to ensure compatibility and proper flow. Secure all connections to prevent leaks.

4.3. Electrical Connection

Important: Electrical wiring must be performed by a qualified electrician. The unit requires self-wiring.

- Ensure the main power supply is OFF before beginning any electrical work.
- The pool heater operates on 220-240V. In North America (110V standard), it requires one ground wire and two live wires for proper connection.
- Connect the wires to the appropriate terminals inside the heater's electrical compartment as shown in the diagram.
- Ensure all connections are tight and secure.

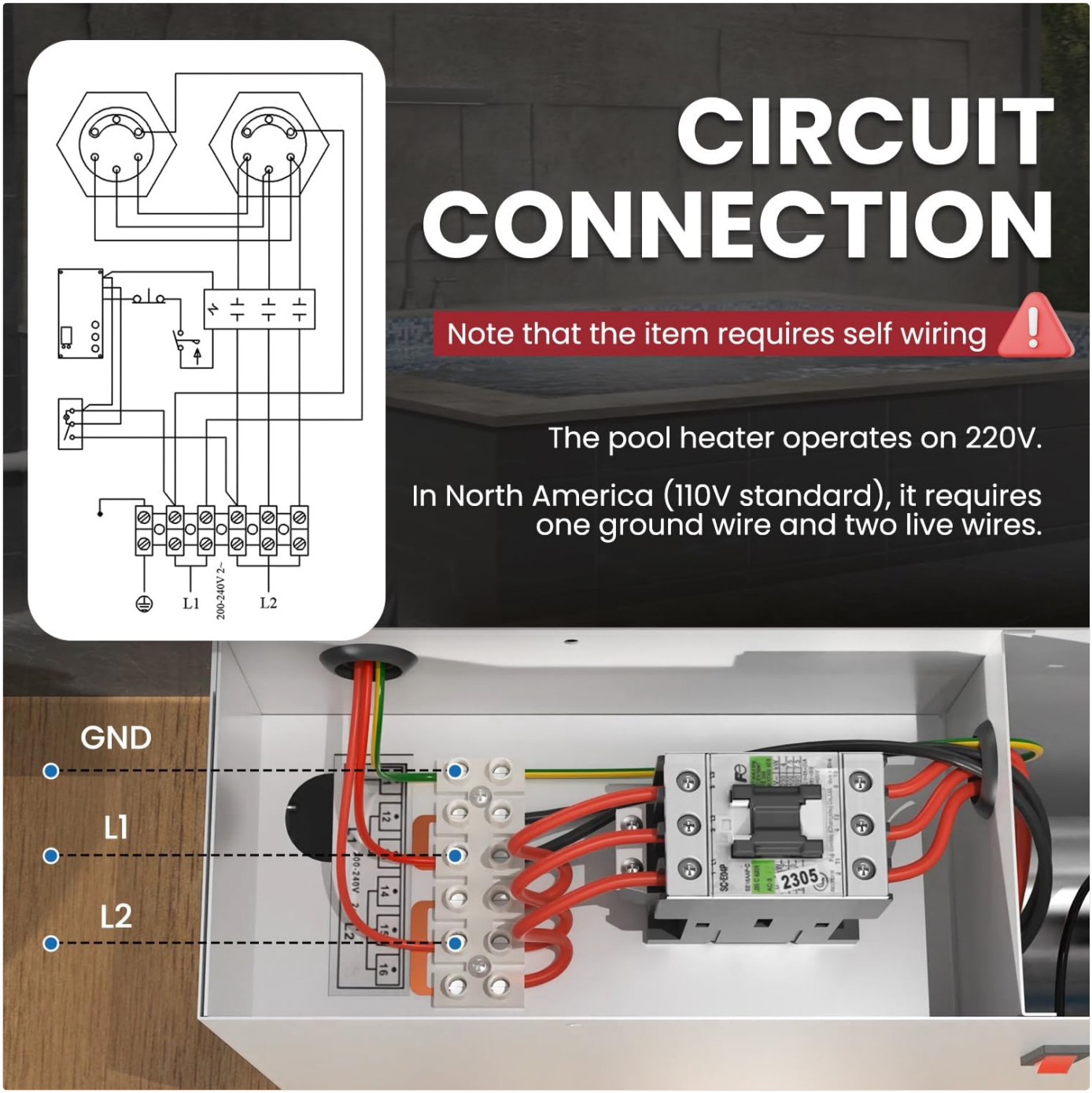

Image: Detailed circuit connection diagram showing terminals for GND, L1, and L2, emphasizing the requirement for self-wiring and 220V operation.

5. Operating Instructions

5.1. Control Panel Overview

The Mxmoonant Pool Heater features a touchscreen display for intuitive control. The display shows the current water temperature and allows for setting the desired temperature.

Image: Close-up of the heater's touchscreen display, indicating real-time temperature, temperature range (77-122°F), and unit switch between °F and °C.

The control panel typically includes:

- **Digital Display:** Shows current water temperature and set temperature.
- **SET Button:** Used to enter temperature setting mode.
- **Up/Down Arrows:** Used to adjust the desired temperature.
- **Flow Indicator:** (Usually a light) Indicates normal water flow.
- **Heating Indicator:** (Usually a light) Indicates the heater is actively heating.

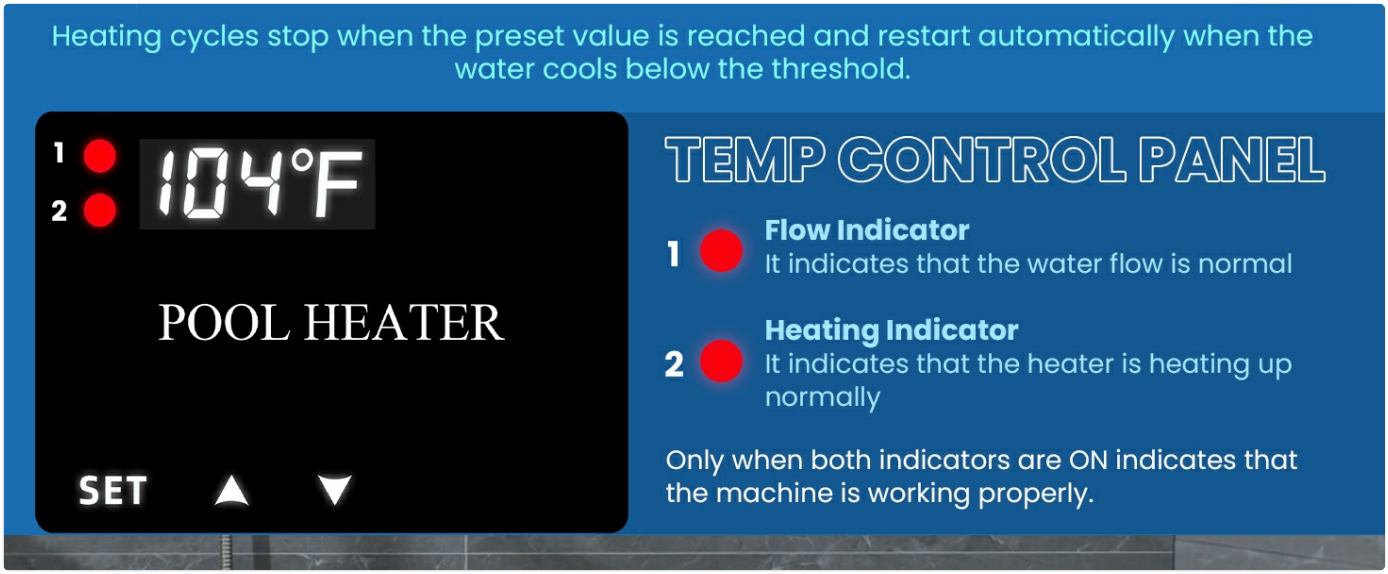

Image: Diagram detailing the temperature control panel, showing the flow indicator (1) and heating indicator (2). Both indicators must be ON for proper operation.

5.2. Setting the Temperature

1. Ensure the circulation pump is running and there is adequate water flow through the heater.
2. Press the **SET** button on the touchscreen. The display will likely flash the current set temperature.
3. Use the **Up** and **Down** arrow buttons to adjust the desired water temperature.
4. Once the desired temperature is set, the heater will automatically begin heating if the current water temperature is below the set point.

The heater operates in cycles, automatically turning on when the water temperature falls below the preset temperature and turning off when it reaches the preset temperature. For pools, a proper temperature range is typically 78-86°F (25-30°C). For hot tubs/spas, 104°F (40°C) is common.

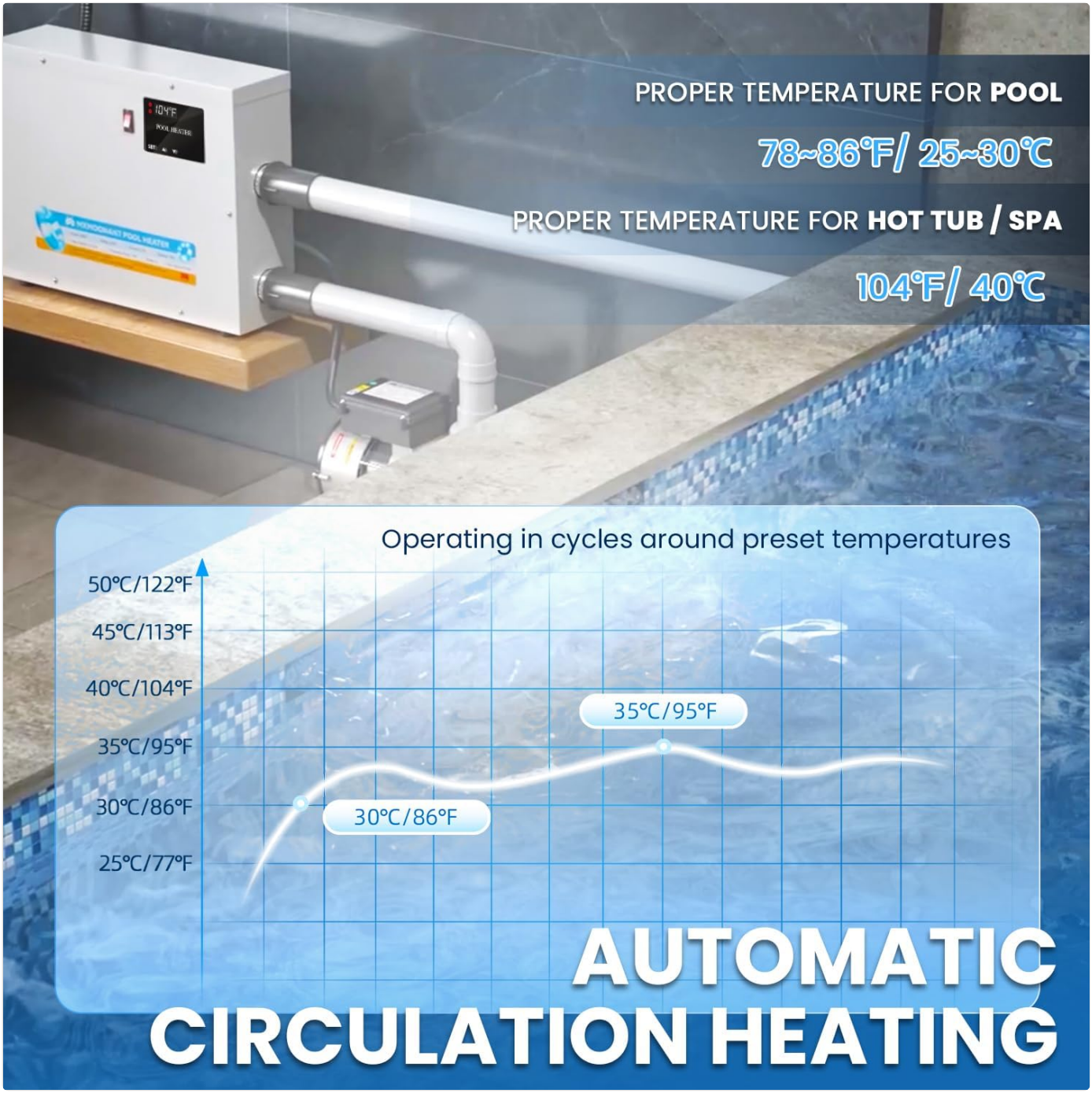

Image: Graph showing the automatic circulation heating process, where the heater cycles around preset temperatures (e.g., 30°C/86°F for pools and 35°C/95°F for spas).

5.3. Heating Performance

The time required to heat your water depends on factors such as the volume of water, ambient temperature, and pool insulation. The 5.5KW model is ideal for approximately 700 gallons. Using hot water rather than cold water to fill a spa can prevent affecting heating performance.

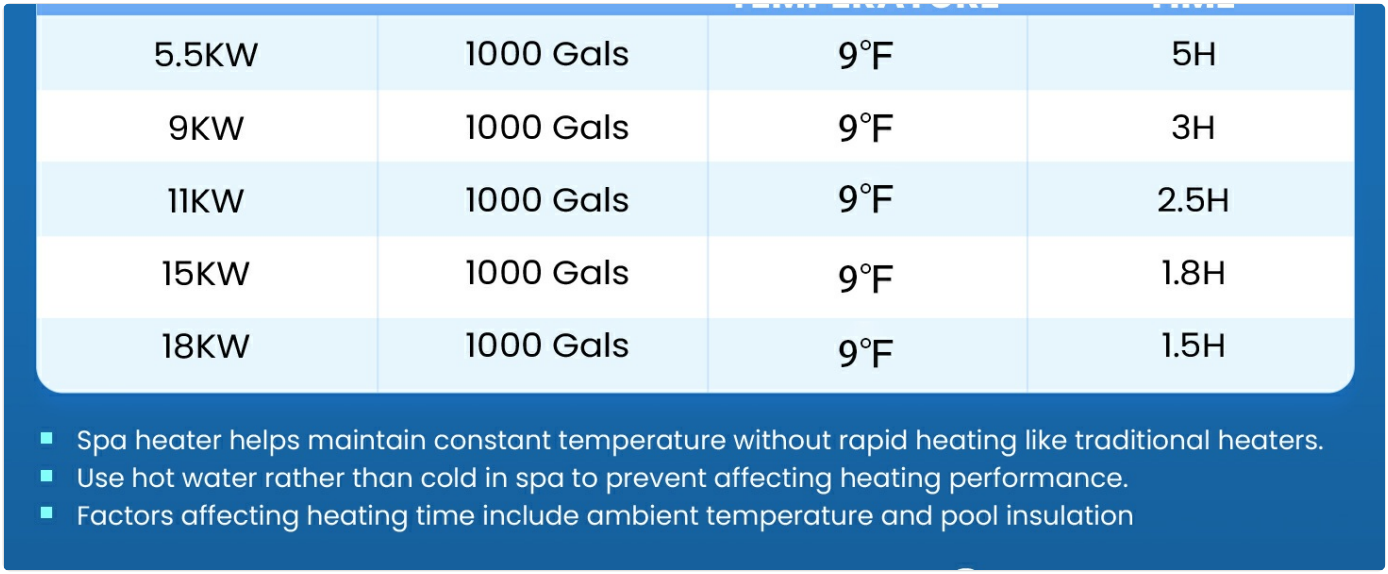

Image: Table providing estimated heating times for different heater powers (5.5KW, 9KW, 11KW, 15KW, 18KW) to raise 1000 gallons by 9°F. For the 5.5KW model, this is approximately 5 hours.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Mxmoonant Pool Heater.

- **Inspect Connections:** Periodically check all plumbing and electrical connections for leaks or loose wiring. Tighten as necessary.
- **Clean Filter:** Ensure your pool's filter system is clean and functioning correctly to maintain optimal water flow through the heater. Reduced flow can trigger safety shutdowns.
- **Winterization:** If you live in an area with freezing temperatures, properly winterize your pool and heater to prevent damage from freezing water. Consult a pool professional if unsure.
- **Heating Element:** The heater features an upgraded 316 stainless steel heating element designed for durability. While generally maintenance-free, ensure proper water chemistry to prevent scale buildup.

Image: Visual representation of the upgraded 316 stainless steel heating element inside the pool heater, highlighting its robust construction.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your pool heater.

Troubleshooting Guide

Problem	Possible Cause	Solution
Heater not turning on / No display	No power supply; Tripped circuit breaker; Loose electrical connection.	Check power source and circuit breaker. Ensure all electrical connections are secure. Consult a qualified electrician.

Problem	Possible Cause	Solution
Heater turns off automatically / Error code	Low water flow (pressure switch activated); High temperature protection activated (lack of flow/blockage).	Ensure circulation pump is running and filter is clean. Check for blockages in plumbing. Verify water pressure is above 15kPa.
Water not heating to desired temperature	Incorrect temperature setting; Insufficient heating time for water volume; Poor pool insulation; Low ambient temperature.	Verify set temperature. Allow more time for heating, especially for larger volumes or colder starting temperatures. Consider pool cover/insulation.
Flow indicator not lit	No water flow; Insufficient water pressure; Faulty flow sensor.	Check if circulation pump is operating. Ensure water level is adequate. Clean filter. If problem persists, contact support.
Heating indicator not lit (but flow is normal)	Desired temperature already reached; Faulty heating element; Electrical issue.	Check if water is already at set temperature. If not, and flow is normal, there may be an internal fault. Contact support.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Mxmoonant customer support.

8. Warranty Information

Specific warranty details for your Mxmoonant Pool Heater are typically provided with your purchase documentation. Please refer to the warranty card or contact Mxmoonant customer service for information regarding warranty coverage, terms, and conditions.

Keep your proof of purchase (receipt or invoice) as it will be required for any warranty claims.

9. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Mxmoonant customer support. You can often find contact information on the product packaging, the official Mxmoonant website, or through your point of purchase.

When contacting support, please have the following information ready:

- Product Model: **5.5KW**
- ASIN: **B0D3PR344J**
- Date of Purchase
- A detailed description of the issue

You can also visit the official Mxmoonant Store for more product information:Mxmoonant Store

Related Documents

	Mxmoonant Electric Pool Heater 3 KW H30-R1-W User Manual and Instructions Comprehensive user manual and safety instructions for the Mxmoonant Electric Pool Heater 3 KW (Model H30-R1-W). Learn about installation, operation, troubleshooting, and safety precautions for your pool or hot tub heater.