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> Mxmoonant 11KW Pool Heater Instruction Manual

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Model: 11KW | Brand: Mxmoonant

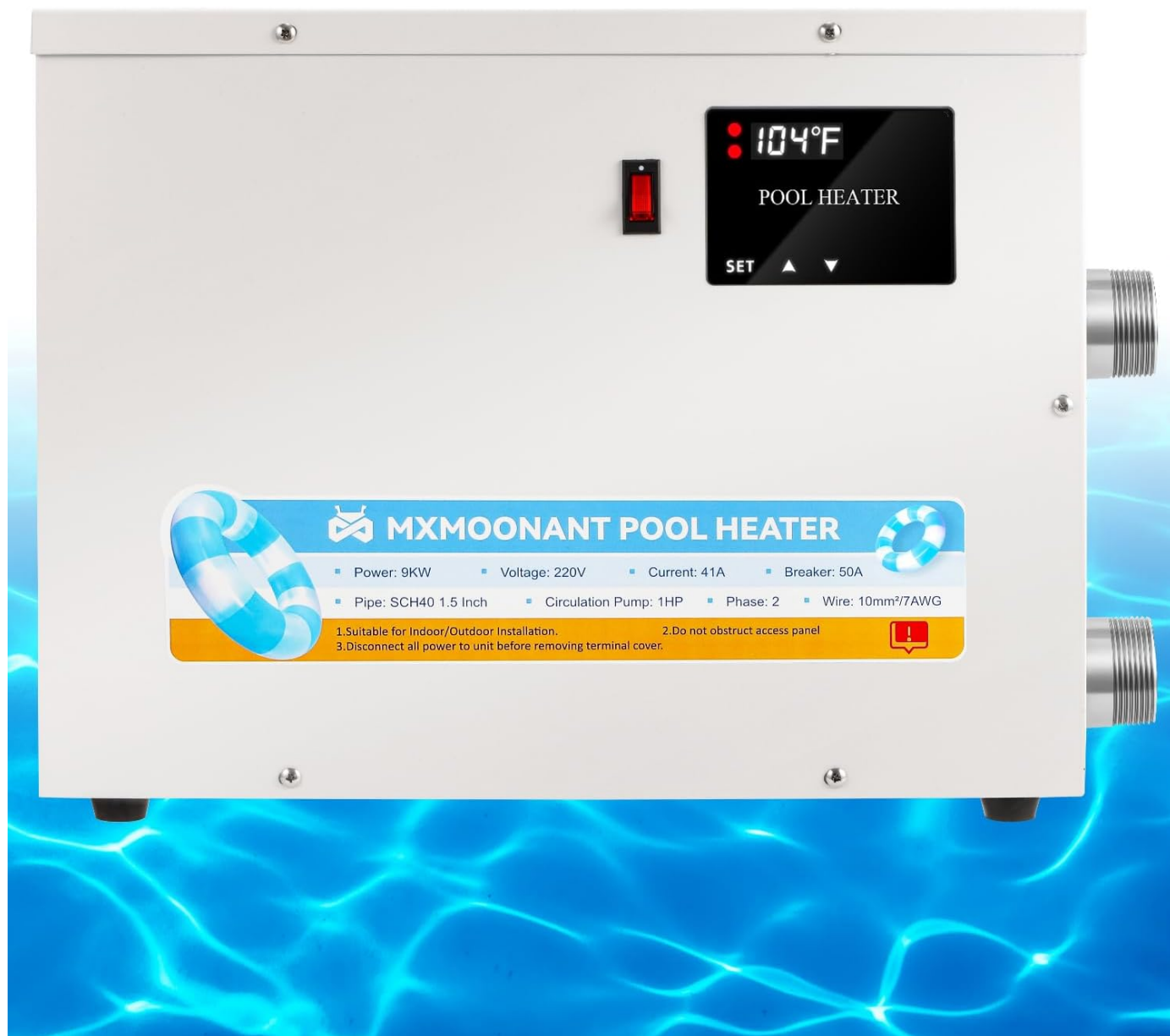
INTRODUCTION

This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your Mxmoonant 11KW Electric Swimming Pool Heater. Please read all instructions carefully before use to ensure proper functionality and safety.

Important Safety Information: Always disconnect power before performing any installation or maintenance. Installation should be performed by a licensed electrician to ensure compliance with local electrical standards.

PRODUCT FEATURES

- **Touchscreen Display:** Upgraded interface for improved visibility and precise temperature control.
- **Automatic Circulating Heating:** Cycles on and off to maintain preset water temperature efficiently.
- **Efficient Heating Tube:** Equipped with 304 stainless steel heating tubes for excellent thermal conductivity and faster heating.
- **Professional Wiring Method:** Designed for hardwired installation, requiring professional electrical setup.
- **Capacity:** Suitable for pools of approximately 1000 gallons (for 11KW model).



Front view of the Mxmoonant 11KW Pool Heater, showing the digital display and connection ports.

SETUP

Plumbing Installation

The Mxmoonant Pool Heater is equipped with 1.5-inch PVC connectors. It is recommended to use SCH40 1.5-inch PVC pipe for plumbing installation. If using other pipe sizes, ensure the connection starts with 1.5 inches at the heater.

A circulation pump is required for proper operation. The power of the circulation pump should be more than 1 HP. Insufficient pump power may lead to inadequate water flow and heating issues. Ensure the pump is a circulation pump, not a booster or submersible pump.

CONNECT WITH CIRCULATION PUMP

≥ 1HP
CIRCULATION PUMP

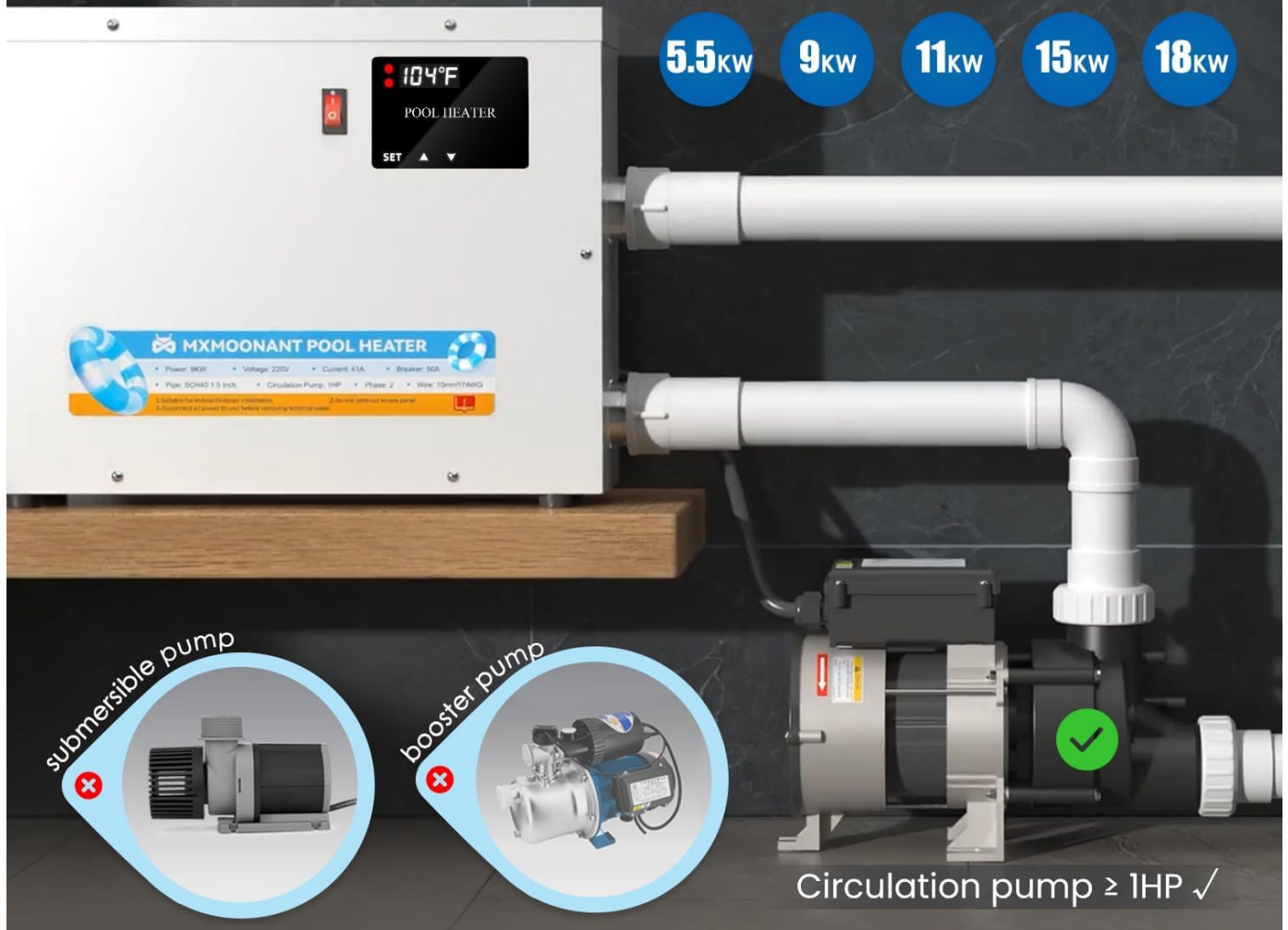


Diagram showing the Mxmoonant Pool Heater connected to a circulation pump and PVC piping.

Video: Plumbing and Circulation Pump Setup

This video demonstrates the proper plumbing connections and the importance of using a circulation pump with sufficient power.

Electrical Connection

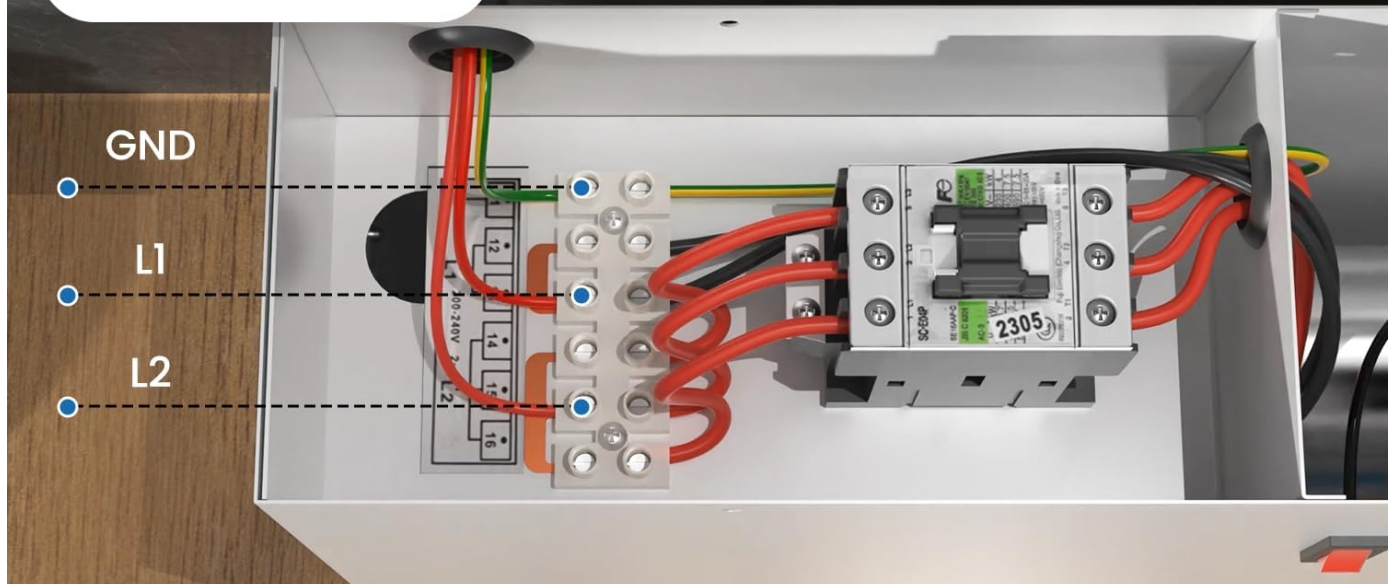
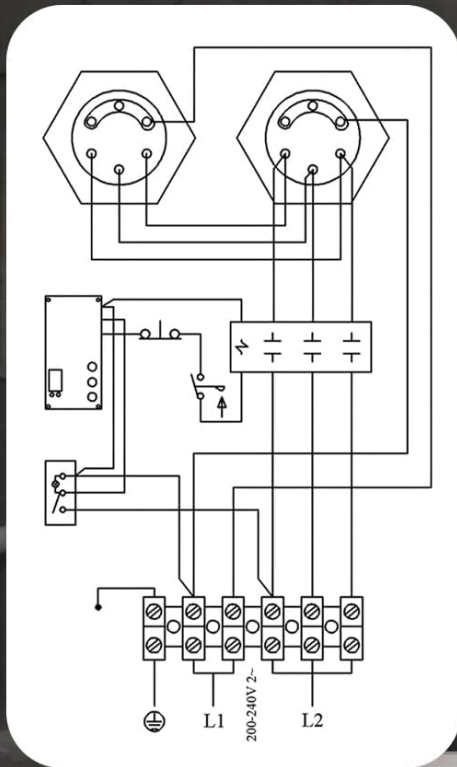
The pool heater operates on 220V. For regions with a 110V standard (such as the United States and Canada), it requires one ground wire and two hot wires. Ensure that the wiring complies with local electrical standards to guarantee safe operation. It is highly recommended to use a 2P GFCI breaker.

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.



Detailed diagram for electrical circuit connection, showing L1, L2, and Ground terminals.

Select the appropriate breaker based on the heater's power:

- 9KW: 50A Breaker
- 11KW: 60A Breaker
- 15KW: 90A Breaker
- 18KW: 110A Breaker

Video: Electrical Wiring and Initial Test

This video illustrates the process of loosening the top cover, completing the mains connection, and performing an initial test of the pool thermostat.

OPERATING INSTRUCTIONS

Touchscreen Display and Temperature Setting

The upgraded touchscreen display allows for easy monitoring and adjustment of the water temperature. The temperature

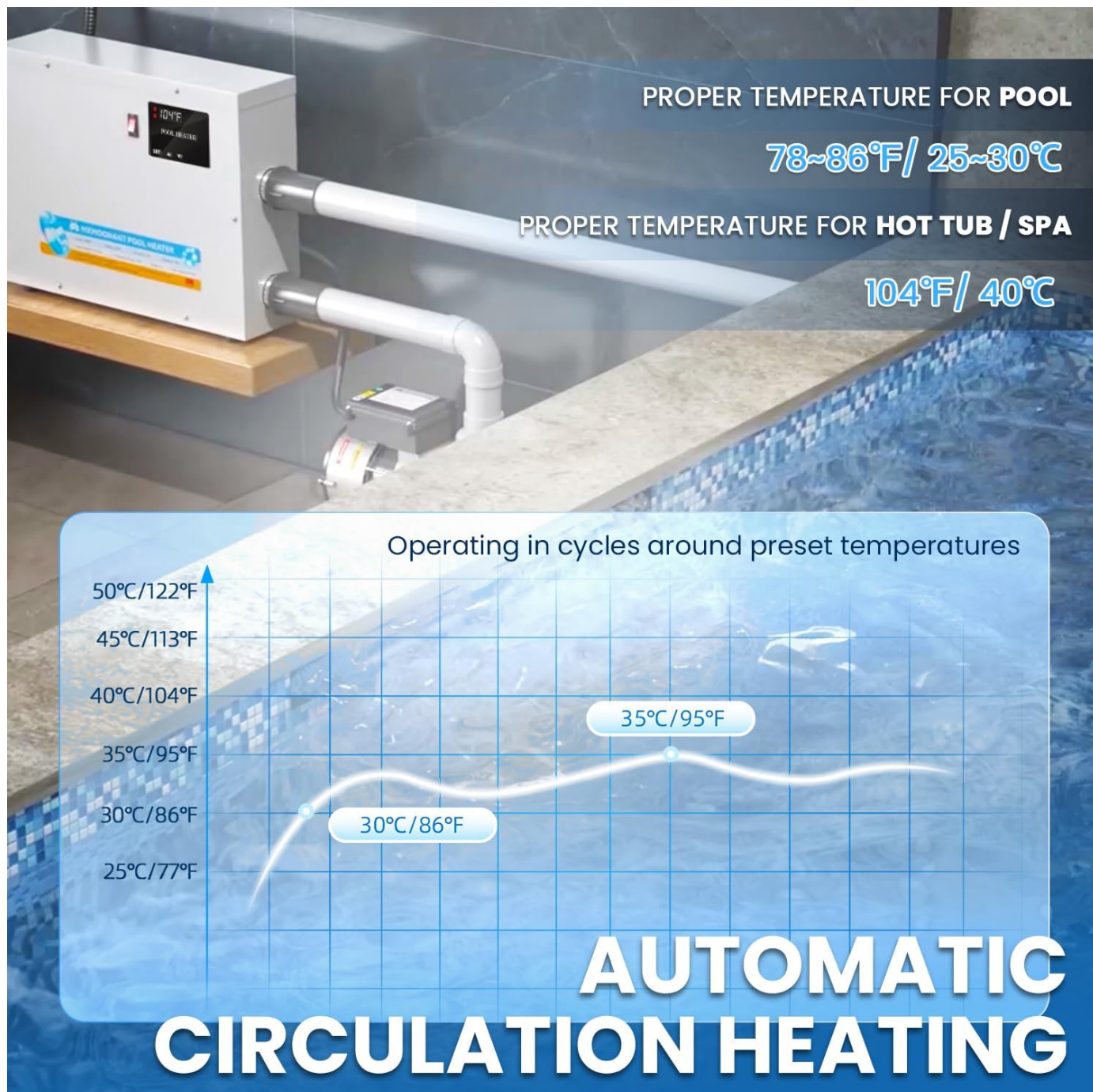
can be set within a range of 77°F to 122°F (25°C to 50°C). You can switch between Fahrenheit and Celsius units directly on the display.



The touchscreen display showing real-time temperature and controls for setting the desired temperature.

Automatic Circulation Heating

The heater features automatic circulating heating. When the water temperature reaches or surpasses the preset level, the thermostat will automatically shut off. Conversely, if the temperature drops below the preset level, the thermostat will automatically turn on again to maintain the desired temperature.



Graph demonstrating how the heater operates in cycles around preset temperatures for pools and hot tubs.

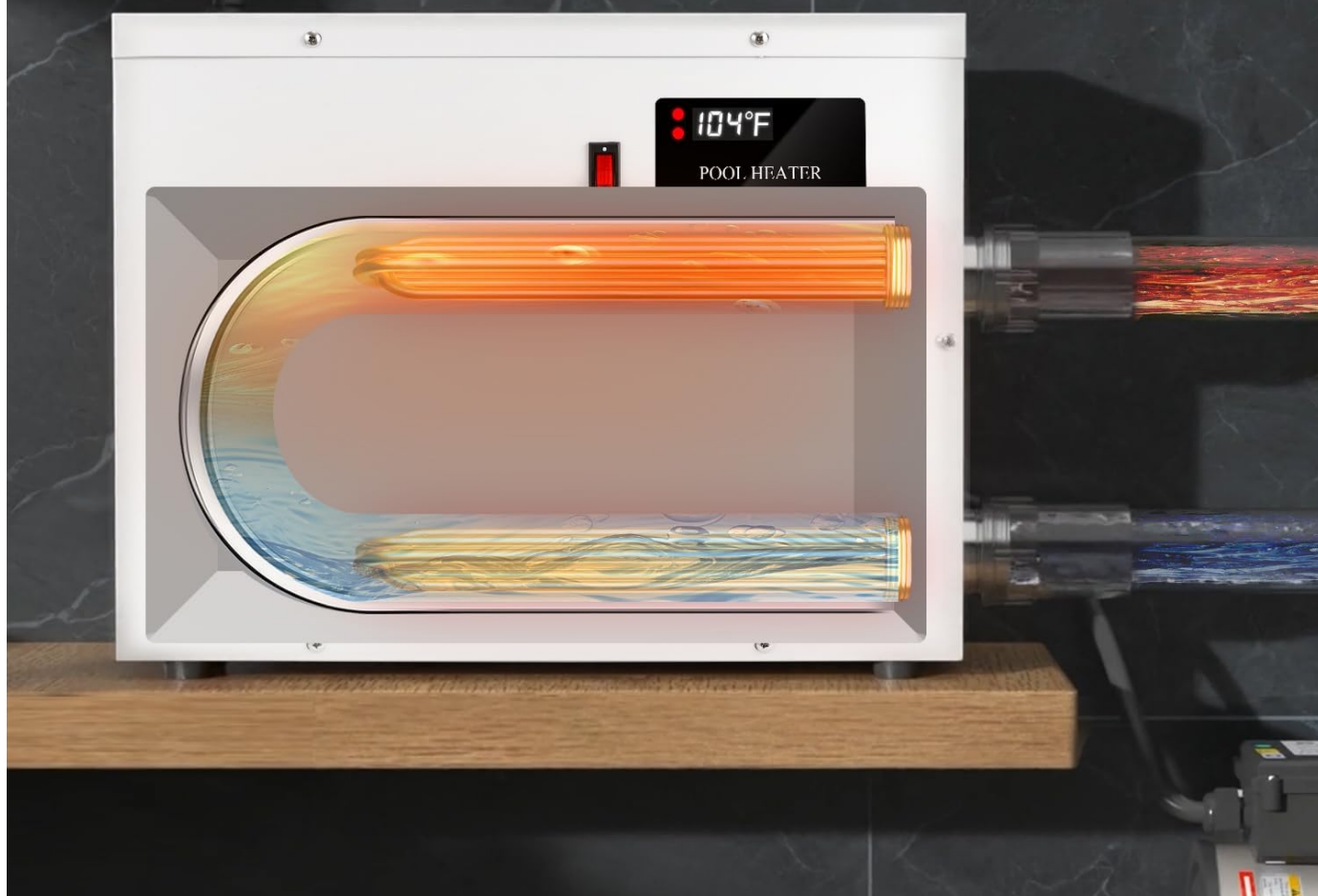
Heating Element Operation

The electric pool heater utilizes 304 stainless steel heating tubes. As water passes through these tubes, it absorbs heat, increasing its temperature. This design ensures efficient heat transfer, speeding up heating times and contributing to energy efficiency.

UPGRADED HEATING ELEMENT

316 Stain Steel Element

316



Visual representation of water flowing through the 304 stainless steel heating element, illustrating the heating process.

MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your pool heater. Always ensure the unit is disconnected from power before performing any maintenance.

- **Regular Cleaning:** Keep the exterior of the unit clean and free from debris.
- **Inspect Connections:** Periodically check all plumbing and electrical connections for any signs of leaks, corrosion, or loose fittings.
- **Water Quality:** Maintain proper water chemistry in your pool or spa to prevent scale buildup and corrosion within the heater.

TROUBLESHOOTING

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

- **No Heat Output:**

- Ensure the circulation pump is running and water is flowing through the heater before turning the unit on.
- Check the "Flow Indicator" light on the display. If it's not lit, there might be insufficient water flow. Verify pump operation and check for blockages in the plumbing.
- Check the "Heating Indicator" light. If it's not lit, the heating element may not be active. Verify power supply and temperature settings.
- Confirm the desired temperature is set above the current water temperature.

- **Unit Not Turning On:**

- Verify that the main power switch on the unit is in the ON position.
- Check your electrical breaker for trips.
- Ensure all electrical connections are secure (professional inspection recommended).

- **Inconsistent Heating:**

- Ensure the circulation pump is providing consistent flow.
- Factors such as pool size, ambient temperature, and insulation can affect heating time and consistency.

For persistent issues, please contact Mxmoonant customer support.

SPECIFICATIONS

Specification	Detail
Model	11KW
Power	11KW
Voltage	220V
Phase	2
Current	50A
Breaker Required	60A
Wire Gauge	7AWG
Plumbing Size	SCH40 1.5" PVC
Circulation Pump	≥ 1HP
Ideal Capacity	1000 Gallons (for 11KW)
Product Dimensions	18.7 x 3.93 x 13.77 inches
Item Weight	19.46 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

Detailed product specifications for different Mxmoonant pool heater models.

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Mxmoonant Pool Heater, please contact Mxmoonant customer service directly. Refer to the product packaging or the official Mxmoonant website for contact details.

Mxmoonant is committed to providing excellent customer service and support for their products.

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Question

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

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