Mxmoonant 1HP

Mxmoonant 1HP SPA Pump Instruction Manual

Model: 1HP | Brand: Mxmoonant

Introduction

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your Mxmoonant 1HP SPA Pump. Designed for hot tubs, spas, and bathtubs, this pump ensures optimal water circulation for a revitalizing experience. Please read this manual thoroughly before use and retain it for future reference.

Safety Information

- Always disconnect power before performing any installation, maintenance, or service on the pump.
- Installation must be performed by a qualified electrician and plumber in accordance with all local and national electrical and plumbing codes.
- Ensure the pump is installed on a stable, level surface that can support its weight and is protected from moisture and direct sunlight.
- Do not operate the pump dry. Ensure the pump is fully primed with water before starting to prevent damage.
- Use only the specified 1.5-inch SCH40 PVC pipe for plumbing connections.
- Ensure proper grounding of the electrical system to prevent electrical shock hazards. A 2P GFCI breaker is recommended.
- Keep children and unauthorized personnel away from the pump and its electrical connections.

Product Overview

Key Features

- **Efficient Water Circulation:** Designed for optimal freshness and rejuvenation in your spa.
- **Durable Copper Motor:** Features a pure copper motor for dependable performance and long-lasting use.
- **Easy Installation:** Comes with 1.5" pipe connectors for straightforward plumbing.
- **Versatile Application:** Suitable for various settings including homes, businesses, and leisure spots

for hydrotherapy.

Components

The Mxmoonant 1HP SPA Pump consists of the main pump unit, a durable motor, an electrical control box, and included 1.5-inch pipe connectors for plumbing. Refer to the image below for visual identification of the pump and its accessories.

Image: The Mxmoonant 1HP SPA Pump, showing the main pump unit, motor, electrical box, and two 1.5-inch pipe connectors.

Specifications

Specification	Value (1HP Model)
Voltage	110V
Power	1HP
Maximum Flow Rate (Qmax)	92.5 GPM / 350 L/min
Maximum Lifting Height (Hmax)	39.3 FT

Specification	Value (1HP Model)
Current	7.0A
Medium Temperature	41-122℉ (5-50℃)
Max. Working Pressure	0.3Mpa
Material	Copper
Item Weight	14.54 pounds
Product Dimensions	14.37 x 6.69 x 10.63 inches

Image: A table detailing the technical specifications for 1HP, 1.5HP, and 2HP models, including Qmax, Hmax, Voltage, Current, Fitting Size, Medium Temperature, and Max. Working Pressure.

Image: A diagram illustrating the dimensions of the Mxmoonant SPA Pump for 1HP, 1.5HP, and 2HP models, with measurements for length, width, and height components.

Setup and Installation

Plumbing Connection

The SPA pump comes with 1.5-inch pipe connectors. It is crucial to use SCH40 1.5-inch PVC pipe for all plumbing installations to ensure proper fit and function. If using other pipe sizes, ensure a proper adapter is used, starting with the 1.5-inch connection at the pump.

Image: A detailed view of the 1.5-inch PVC plumbing connector, showing inner diameter, union nut, and tailpiece dimensions. It specifies using SCH40 1.5" PVC pipe.

Image: A diagram illustrating the plumbing connection for the SPA pump, indicating where to apply PVC cement and connect 1-1/2" SCH40 PVC pipe.

Electrical Connection

For regions with a standard voltage of 110V, such as the United States and Canada, the pump requires one ground wire and two hot wires (L1, L2). Ensure that the wiring complies with local electrical standards to guarantee safe operation. It is recommended to use a 2P GFCI breaker. Select the appropriate breaker

based on the power requirements of your system.

Your browser does not support the video tag.

Video: This video demonstrates the electrical connection process for a pool heater and spa pump system, including opening the cover, connecting mains wires (L1, L2, Ground), and setting the desired temperature on the control panel. It highlights the importance of using a 2P GFCI breaker and selecting the appropriate breaker based on power.

Operating Instructions

Circulation Pump Requirements

It is essential to use a circulation pump with a power rating of at least 1HP to ensure sufficient water flow for proper operation and heating. Using a pump with less than 1HP may result in inadequate water circulation and inefficient heating.

Your browser does not support the video tag.

Video: This video demonstrates the electrical connection process for a pool heater and spa pump system, including opening the cover, connecting mains wires (L1, L2, Ground), and setting the desired temperature on the control panel. It highlights the importance of using a 2P GFCI breaker and selecting the appropriate breaker based on power.

Water Flow and Heating Indicators

The pump system typically includes indicator lights for water flow and heating status. If the water flow indicator light is lit, it signifies that the water flow rate is normal. When the heating indicator light is lit, it means the heater is actively heating the water. Ensure both indicators are functioning correctly during operation.

Image: The Mxmoonant SPA Pump in operation, showing water flowing through the system, indicating proper circulation.

Working Principle

The SPA pump operates by circulating water through a heating element within the circulation system. As water passes through this element, it absorbs heat, increasing its temperature. This continuous circulation ensures an even distribution of warmth throughout your spa or hot tub, maintaining a stable and comfortable temperature.

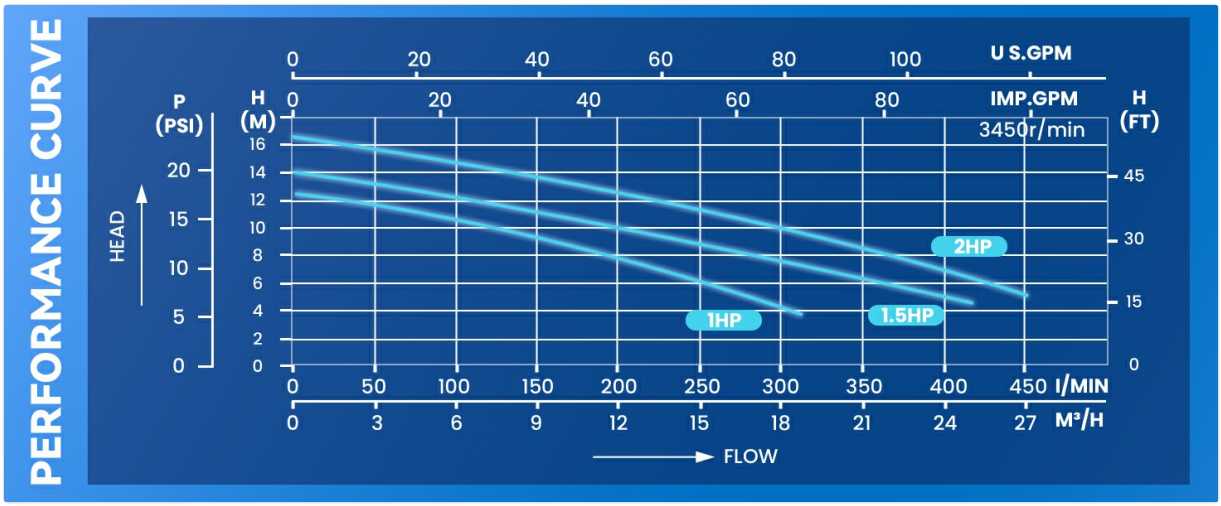

Image: A diagram illustrating the water circulation path in a spa system with the Mxmoonant pump, showing water being

moved efficiently for even warmth and cleanliness.

Maintenance

- Regularly inspect the pump and all plumbing connections for leaks or damage.
- Keep the pump area clean and free from debris to ensure proper ventilation and prevent overheating.
- Check electrical connections periodically for tightness and signs of corrosion.
- Consult a qualified technician for any complex repairs or internal component maintenance.

Troubleshooting

- **No Power:** Check the circuit breaker (GFCI) and ensure all electrical connections are secure.
- **No Water Flow:** Verify that the pump is primed, water levels are adequate, and there are no obstructions in the plumbing. Ensure the circulation pump is operating correctly and has sufficient power (>1HP).
- **Insufficient Heating:** Confirm the thermostat settings are correct and the heating indicator is lit. Check for proper water flow as insufficient flow can hinder heating.
- **Unusual Noise:** Disconnect power and inspect for any foreign objects in the pump impeller. If noise persists, contact support.

Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase or visit the official Mxmoonant website. Keep your purchase receipt as proof of purchase for warranty claims.