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› MICOE MSHP-010Y1 35000BTU Inverter Pool Heat Pump User Manual

MICOE MSHP-010Y1

MICOE MSHP-010Y1 35000BTU Inverter Pool Heat Pump User Manual

Model: MSHP-010Y1

1. PRODUCT OVERVIEW

The MICOE MSHP-010Y1 is a 35000BTU Inverter Heat Pump designed for heating and cooling swimming pools up to 12000 gallons. It features smart APP control, a durable titanium heat exchanger, and operates quietly. This heat pump is suitable for both above-ground and in-ground pools.

35000BTU

Up to 12000 Gallons

Noise level: 50dB(A)

Refrigerant: R32



Figure 1: MICOE 35000BTU Inverter Pool Heat Pump

Key Features:

- **Dual-Mode Operation:** Maintains water temperature from 46°F to 104°F, allowing for both heating and cooling of pool water.
- **Inverter Technology:** Delivers 35,000 BTU heating power for pools up to 12000 gallons, consuming up to 69% less energy compared to traditional heaters.
- **Smart Controls:** Features a vibrant color touch screen and mobile app for remote temperature monitoring, scheduling, and performance adjustments.
- **Durable Construction:** Equipped with a corrosion-resistant titanium heat exchanger for long-term reliability.
- **Quiet Operation:** The inverter compressor operates as quietly as 50 dB(A).

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your MICOE pool heat pump. Please follow these steps carefully.

2.1 Unpacking and Components

Before installation, ensure all components are present and undamaged. The packing list typically includes:



Figure 2: Included components for the MICOE Pool Heat Pump.

2.2 Water Pipe Connection

The heat pump is designed for hassle-free installation with versatile 1.9-inch adapters that connect to most above-ground and in-ground pool plumbing.

1. Remove the pre-installed pipe joints from the Water Outlet and Water Inlet ports on the machine.
2. Attach the external 1.9-inch PVC water pipe fittings to both the Water Outlet and Water Inlet ports.
3. Apply glue or wrap thread seal tape around the 1.9-inch PVC pipe ends before inserting them into the fittings to prevent leakage.

Video 1: Micoe Pool Heater Installation Guide and Safety Precautions. This video demonstrates the process of connecting the water pipes and other installation steps.

2.3 Drainage Pipe Installation

It is recommended to install the drain pipe before securing the machine in its final position.

1. Locate the drainage hole on the chassis of the heat pump.
2. Rotate the drain pipe slot onto the condensate outlet.
3. Ensure the drain pipe is securely attached to direct condensate away from the unit.

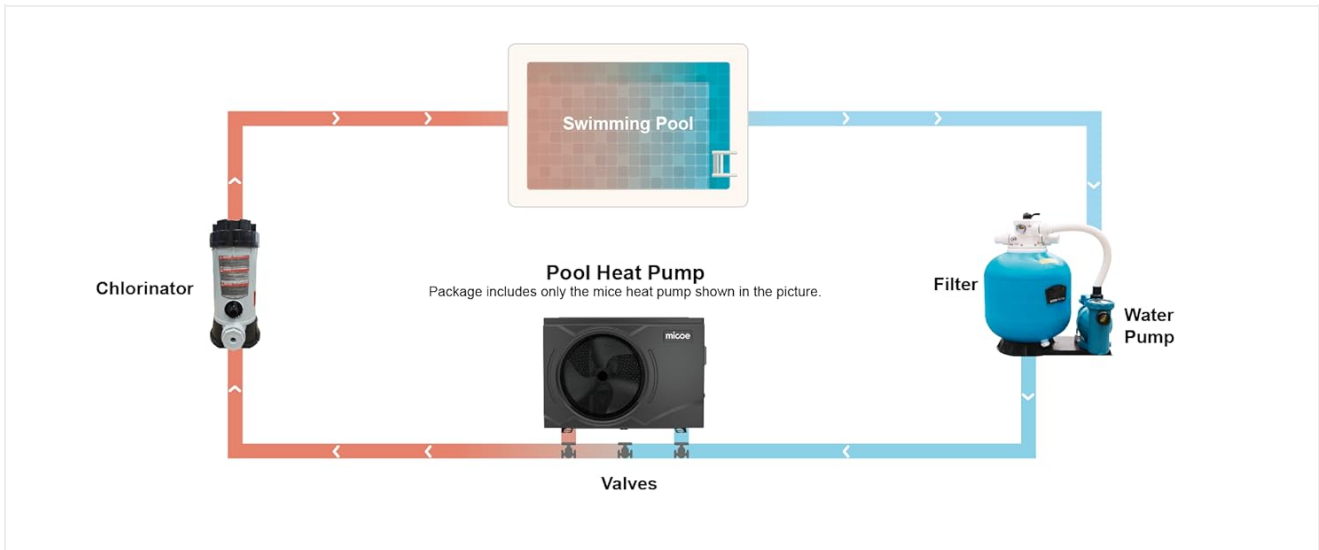


Figure 3: Diagram illustrating the connection points for the pool heat pump, including water inlet, water outlet, and drainage.

2.4 Electrical Connection and Voltage Check

The unit requires a 220-240V power supply. For safe and proper operation, please check the voltage at the main terminal block after installation using a multimeter.

1. **Live to Ground:** Measure the voltage between the L (Live) and GND (Ground) terminals. The meter should show a positive reading between 110V and 120V.
2. **Neutral to Ground:** Next, measure between the N (Neutral) and GND (Ground) terminals. Here, the meter should show a negative reading between -110V and -120V.
3. **Line Voltage:** Finally, measure between the L (Live) and N (Neutral) terminals. The reading should be positive and between 220V and 240V.

P1 and P2 terminals are for connecting to an external pump. If the pump exceeds 250W, a contactor is required. When connected, the heater controls the pump (the pump runs when the heater runs). For independent pump control, use a separate power supply.

3. OPERATING INSTRUCTIONS

Your MICOE heat pump offers flexible control options via its integrated touch screen and a smart mobile application.

3.1 Dual Smart Controls

You can command your pool's climate in two ways:

- **Touch Screen:** Adjust settings directly on the vibrant color touch screen located on the unit.
- **Mobile App:** Control the unit remotely via the mobile app from anywhere. Monitor temperature, set schedules, and fine-tune performance.

Smart APP Control

2 Ways To Control Water Temperature



APP Control

TFT Screen Touch Controller

Figure 4: Illustration of the smart APP control and TFT touch screen interface.

Video 2: Micoe Swimming Pool Heat Pump Smart APP Control User Guide. This video demonstrates how to connect and use the smart app for controlling the heat pump.

3.2 Temperature Settings and Modes

The heat pump supports both heating and cooling modes to maintain your desired pool temperature.

- **Heating Mode:** Set the desired temperature between 46°F and 104°F to warm your pool water.
- **Cooling Mode:** Set the desired temperature to cool your pool water, typically effective down to 82°F.
- **Work Modes:** Select between ECO, Standard, or Boost modes for optimized energy consumption and heating/cooling speed.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MICOE pool heat pump.

- **Clean the Coils:** Periodically inspect and clean the evaporator coils to ensure proper airflow and heat exchange efficiency. Remove any debris, leaves, or dirt.
- **Check Water Flow:** Ensure there is adequate water flow through the unit. Blockages in the pool filter or plumbing can reduce efficiency.
- **Inspect for Leaks:** Regularly check all pipe connections for any signs of water leakage.
- **Winterization:** In colder climates, follow proper winterization procedures to protect the unit from freezing temperatures. Consult a pool professional if unsure.
- **Titanium Heat Exchanger:** The corrosion-resistant titanium heat exchanger requires minimal maintenance under normal operating conditions.

5. TROUBLESHOOTING

If you encounter issues with your MICOE pool heat pump, refer to the following basic troubleshooting steps:

- **Unit Not Turning On:** Check the power supply connection and ensure the circuit breaker has not tripped. Verify the power supply voltage as described in Section 2.4.
- **Insufficient Heating/Cooling:** Ensure the desired temperature is set correctly. Check for adequate water flow and clean the pool filter if necessary. Verify that the unit is operating in the correct mode (heating or cooling).
- **Unusual Noises:** While the unit operates quietly, any unusual loud noises may indicate an issue. Check for obstructions around the fan or contact customer support.
- **Error Codes:** If an error code appears on the display, consult the full user manual for specific code interpretations and solutions.

If problems persist after attempting these steps, please contact MICOE customer service for further assistance.

6. SPECIFICATIONS

Detailed technical specifications for the MICOE MSHP-010Y1 Inverter Pool Heat Pump:

Specification	Value
Model Number	MSHP-010Y1
Product Dimensions	36.38 x 14.33 x 25.35 inches
Item Weight	127.7 pounds
Manufacturer	MICOE
Heating Capacity	35000 BTU
Max Pool Volume	Up to 12000 Gallons
Noise Level	50 dB(A)
Power Supply	220-240V

7. WARRANTY AND SUPPORT

MICOE provides a 12+12-month warranty for this product, along with lifetime friendly customer service. For support, refer to the tutorial manuals inside the package or contact MICOE customer service directly.

