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> MICOE 18000 BTU Pool Heater (Model MSHP-005Y1) Instruction Manual

## MICOE MSHP-005Y1

# MICOE 18000 BTU Pool Heater (Model MSHP-005Y1) Instruction Manual

For Above Ground Pools up to 5500 Gallons

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## 1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your MICOE 18000 BTU Pool Heater (Model MSHP-005Y1). Designed for above-ground pools up to 5500 gallons, this heat pump offers efficient heating and cooling capabilities, smart app control, and a durable titanium heat exchanger. Please read this manual thoroughly before use to ensure optimal performance and safety.

### Key Features:

- **Large Heating Capacity:** 18000 BTU high-efficiency system for pools up to 5500 gallons.
- **Energy-Saving Technology:** Advanced air-source heat pump with titanium tube heat exchangers, heating 50% faster and reducing energy costs by 40% compared to standard electric heaters.
- **Extended Swim Season:** Operates in ambient temperatures from 32°F to 109°F, heating water up to 104°F, allowing for use from early spring to late fall.
- **Quiet Operation:** Maintains a low noise level of 50dB(A) for minimal disturbance.
- **Smart Control:** Adjust temperature, set heating schedules, and monitor the unit's status via the onboard control panel or a mobile application.
- **Easy Installation:** 3-step installation process with included kit, requiring no special tools or technicians.



Image 1.1: The MICOE 18000 BTU Pool Heater installed next to an above-ground pool, demonstrating its use for heating pool water.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions could result in fire, electric shock, injury, or property damage.**

- Always ensure the unit is properly grounded.
- Do not operate the unit if the power cord or plug is damaged.
- Keep children and pets away from the unit during operation.
- Ensure proper water flow through the unit. Operating without adequate water flow can damage the heater.
- Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.
- Maintain adequate clearance around the unit for proper ventilation.
- Disconnect power before performing any maintenance or cleaning.



# AIR-SOURCE POOL HEAT PUMP

## 18000 BTU

MAX POOL VOLUME  
**5500**  
GALLON

COP **4.88**  
High Efficiency

**IPX4**  
Water-resistant



Heating  
Mode



Cooling  
Mode



Auto  
Mode

Image 2.1: Side view of the MICOE Pool Heater showing important safety labels and warnings.

### 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- MICOE 18000 BTU Pool Heat Pump Unit
- Power Cable (9.84 FT)
- Hose Connectors (x2)
- Adjustable Hose Clamps (x2)
- User Manual



Image 3.1: All components included in the MICOE Pool Heater package, laid out for inspection.

## 4. SETUP AND INSTALLATION

The MICOE Pool Heater is designed for quick and easy installation. Follow these steps to set up your unit:

1. **Positioning:** Place the heat pump on a stable, level surface near your above-ground pool. Ensure there is adequate space around the unit for proper airflow and maintenance.
2. **Connect Adapter Fittings:** Attach the provided hose connectors to the water inlet and outlet ports on the heat pump. Secure them with the adjustable hose clamps.
3. **Connect to Pool Filtration System:** Connect the heat pump to your pool's filtration system. The heat pump should be installed after the filter and before any chemical feeders. Water flows from the pool pump, through the filter, into the heat pump, and then back to the pool.
4. **Plug into Power:** Connect the power cable to a suitable 110V electrical outlet. Ensure the outlet is properly grounded and protected by a Ground Fault Circuit Interrupter (GFCI).
5. **Start Heating:** Once connections are secure and power is supplied, turn on your pool pump and then

the MICOE Pool Heater.

No special tools or technicians are required for this 3-step installation process.

Your browser does not support the video tag.

*Video 4.1: Official Micoe video demonstrating the setup and connection of the pool heat pump to a pool filtration system. This video shows the physical connections and initial power-up.*



*Image 4.2: Detailed view of the hose connections on the MICOE Pool Heater, illustrating how it integrates with the pool's water circulation.*

## 5. OPERATING INSTRUCTIONS

### Control Panel Operation:

The unit features an intuitive control panel for direct temperature adjustments and mode selection.

- **Power Button:** Press to turn the unit ON or OFF.
- **Temperature Adjustment:** Use the UP and DOWN arrows to set your desired water temperature. The

unit can heat water up to 104°F.

- **Mode Selection:** The unit supports heating and cooling modes. Select the appropriate mode based on your needs.



# Extend Your Swimming Season

From **early-Spring** to **late-Autumn**

**With Micoe Heat Pump**

Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sept. Oct. Nov. Dec.

**Without Heat Pump**

Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sept. Oct. Nov. Dec.

Image 5.1: The digital control panel of the MICOE Pool Heater, showing temperature display and control buttons.

## Smart App Control:

For enhanced convenience, you can control your MICOE Pool Heater using a dedicated mobile application.

1. **Download App:** Download the MICOE smart app from your device's app store.
2. **Pair Device:** Follow the in-app instructions to pair your pool heater with your smartphone via Wi-Fi.
3. **Remote Control:** Adjust temperature, set heating schedules, and monitor the unit's status from anywhere.



Image 5.2: Demonstrates the smart app control feature, allowing users to manage the pool heater remotely.

## 6. MAINTENANCE

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

- **Clean the Unit:** Periodically clean the exterior of the unit to remove dust, leaves, and other debris. Ensure the fan blades and coils are free from obstructions.
- **Check Water Flow:** Regularly inspect the pool's filtration system and hoses to ensure unrestricted water flow to and from the heat pump.
- **Winterization:** Before freezing temperatures, properly winterize the unit by draining all water from the heat pump and disconnecting hoses. Store the unit in a dry, protected area or cover it with a suitable weather-resistant cover.
- **Inspect Electrical Connections:** Annually check all electrical connections for tightness and signs of wear.



Image 6.1: The MICOE Pool Heater with a protective cover, suitable for winterization or long-term storage.

## 7. TROUBLESHOOTING

If you encounter issues with your MICOE Pool Heater, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; GFCI tripped; Damaged power cord.	Check power connection and outlet. Reset GFCI. Inspect power cord for damage.
Insufficient heating/cooling	Low ambient temperature; Insufficient water flow; Dirty coils; Incorrect temperature setting.	Ensure ambient temperature is within operating range. Check pool pump and filter. Clean coils. Verify temperature setting.
Unit is noisy	Fan obstruction; Loose components.	Check for debris in the fan. Ensure all panels and components are securely fastened.
Water leakage	Loose hose connections; Damaged O-rings.	Tighten hose clamps. Inspect and replace O-rings if necessary.

If the problem persists after attempting these solutions, please contact MICOE customer support.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	MSHP-005Y1
Heating Capacity	18000 BTU
Recommended Pool Volume	Up to 5500 Gallons
Operating Temperature Range	32°F to 109°F (0°C to 43°C)
Maximum Water Temperature	104°F (40°C)
Noise Level	50 dB(A)
Power Supply	110V

Feature	Detail
Heat Exchanger Material	Titanium
Product Dimensions	15.3 x 16.88 x 17.3 inches
Item Weight	77 pounds

## 9. WARRANTY AND SUPPORT

MICOE products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official MICOE website.

### Customer Support:

If you have any questions, require technical assistance, or need to report an issue, please contact MICOE customer support:

- **Online:** Visit the [MICOE Store on Amazon](#) for FAQs and contact options.
- **Email:** Refer to your product packaging or the official website for the most current email address.

Please have your model number (MSHP-005Y1) and purchase date available when contacting support.