

MICOE MSHP-017Y1

MICOE 58000 BTU Invert Pool Heater (Model MSHP-017Y1) Instruction Manual

MODEL: MSHP-017Y1 | BRAND: MICOE

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your MICOE 58000 BTU Invert Pool Heater, Model MSHP-017Y1. Please read this manual thoroughly before using the product and retain it for future reference.

The MICOE 58000 BTU Invert Pool Heater is designed to provide both heating and cooling for above-ground and in-ground pools up to 16,500 gallons (8-30ft). It features advanced air-source heat pump technology for energy efficiency and smart control options via an app or touch panel.

2. Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- **Electrical Safety:** This unit requires professional electrical installation with 220-240V wiring. Ensure all electrical connections comply with local codes and standards.
- **Water Flow:** Ensure proper water flow through the unit at all times during operation to prevent damage.
- **Placement:** Position the unit in a well-ventilated area, away from flammable materials.
- **Children:** Keep children away from the unit during operation and installation.
- **Maintenance:** Disconnect power before performing any maintenance or service.

3. Package Contents

Verify that all items are present in the package:

- MICOE 58000 BTU Invert Pool Heater Unit (MSHP-017Y1)
- Water Pipe Joint Diameter 1.57" (50mm) x2
- Rubber Shock Absorber x4
- Drain-Pipe (78.7") x1
- Drain Nozzle x1
- User Manual x1



Image: Contents of the MICOE 58000 BTU Invert Pool Heater package, including the main unit, water pipe joints, rubber shock absorbers, drain pipe, drain nozzle, and user manual.

4. Specifications

Specification	Detail
Brand	MICOE
Model Number	MSHP-017Y1

Heating Capacity	58000 BTU
Recommended Pool Size	8-30ft (up to 16500 Gallons)
Power Source	Electric (220-240V)
Operating Temperature Range	5°F to 109°F
Max Water Temperature	104°F (under optimal conditions)
Material	Acrylonitrile Butadiene Styrene (ABS), Galvanized Steel
Product Dimensions	36"L x 14"W x 25"H
Item Weight	125.7 pounds
UPC	781858852903

5. Setup

5.1 Pre-Installation Considerations

Before beginning installation, ensure the following:

1. **Location:** Choose a stable, level surface for the unit, ensuring adequate airflow around all sides.
2. **Electrical Requirements:** The unit requires a 220-240V electrical connection. Professional electrical installation is mandatory to ensure safety and compliance with local regulations.
3. **Plumbing:** The unit must be integrated into your pool's existing filtration system. Ensure your pump and filter are capable of handling the required water flow.

5.2 Plumbing Connection

Connect the pool heater to your pool's filtration system using the provided water pipe joints and your existing pool hoses. The unit has clearly marked inlet and outlet ports.

1. Connect the water outlet from your pool filter to the 'Water Inlet' port on the heat pump.
2. Connect the 'Water Outlet' port on the heat pump back to your pool's return line.
3. Secure all connections with clamps to prevent leaks.



Image: The MICOE 58000 BTU Invert Pool Heater unit, showing its main fan and the digital control panel, with a smartphone displaying the app control interface.

5.3 Electrical Connection

This unit requires a dedicated 220-240V circuit. Consult a qualified electrician for proper wiring and connection to your main electrical panel. Do not attempt to connect the unit to a standard 120V outlet.

5.4 Initial Startup

1. Ensure all plumbing connections are secure and leak-free.
2. Turn on your pool's filtration pump to ensure water flow through the heat pump.
3. Restore electrical power to the heat pump.
4. The unit's digital control panel will power on. Follow the on-screen prompts or refer to the 'Operation' section for initial settings.

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Video: A demonstration of the MICOE pool heater's control panel, showing how to set the date, time, display brightness, language, and temperature units (Celsius/Fahrenheit). It also illustrates how to select heating or cooling modes and adjust temperature settings. This video is provided by Micoe Clean Energy.

6. Operation

6.1 Digital Control Panel

The unit features a smart touch control panel for direct operation. The display shows water return temperature, water outlet temperature, and the set temperature. Key functions include:

- **ON/OFF:** Power the unit on or off.

- **Mode:** Select between Heating, Cooling, Automatic, ECO Heating, ECO Cooling, Boost Heating, and Boost Cooling.
- **Temperature Setting:** Adjust the desired water temperature using the '+' and '-' buttons or by dragging the slider. The unit can heat water up to 104°F and cool it down to 45°F.
- **Settings:** Access various settings such as Date & Time, Display & Sound, Temperature Display (Fahrenheit/Celsius), Factory Parameters, and system information.



Image: The MICOE 58000 BTU Invert Pool Heater unit positioned next to a pool, with a hand holding a smartphone displaying the smart app control interface for heating, cooling, and auto modes.

6.2 App Control

The MICOE pool heater can be controlled remotely via a dedicated smartphone application. This allows you to:

- Remotely adjust temperatures.
- Schedule heating/cooling times.
- Monitor the unit's status and energy consumption.

Refer to the app's instructions for pairing your device and utilizing all smart features.



Image: A woman relaxing by a pool, using a smartphone to control the MICOE pool heater, demonstrating the convenience of app-based temperature management.

7. Maintenance

7.1 Regular Cleaning

- Keep the area around the heat pump clear of debris, leaves, and other obstructions to ensure proper airflow.
- Periodically clean the exterior of the unit with a soft, damp cloth. Avoid using harsh chemicals.
- Inspect the fan and coils for any blockages and gently remove them if present.

7.2 Winterization

Before freezing temperatures arrive, it is crucial to properly winterize your pool heater to prevent damage:

1. Turn off the heat pump and disconnect its electrical power.
2. Drain all water from the heat pump and plumbing lines to prevent freezing.
3. Disconnect the water inlet and outlet pipes.
4. Store the unit in a dry, protected area, or cover it with a suitable winter cover if it must remain outdoors.



Image: A MICOE pool heater covered with a protective cover during winter, demonstrating proper winterization practices to extend the unit's lifespan.

8. Troubleshooting

If you encounter issues with your MICOE pool heater, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit not turning on	No power, tripped breaker, loose connection	Check power supply, reset breaker, ensure secure electrical connections.
Insufficient heating/cooling	Low water flow, incorrect temperature setting, dirty coils, ambient temperature outside operating range	Check water pump operation, verify temperature settings, clean coils, ensure ambient conditions are within specified range.
Error code displayed	Specific system fault	Refer to the detailed error code list in the full user manual for specific solutions. If the issue persists, contact customer support.
Unusual noise	Debris in fan, loose components	Inspect fan for obstructions, ensure all panels are securely fastened. If noise persists, contact customer support.

9. Warranty and Support

For warranty information, please refer to the warranty card included with your product or contact MICOE customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance, spare parts, or service inquiries, please contact MICOE customer support through the contact information provided in your product packaging or on the official MICOE website.

