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› [Pool Heater for Above Ground Pools, 14000BTU Electric Swimming Pool Heat Pumps for Inflatable Pools up to 5000gallons,110V-120V/60Hz Portable Pool Warmers 14000 BTU-5000gals max](#)

ECOPOOLTECH EE50S

ECOPOOLTECH EU50 Pool Heater Instruction Manual

Model: EE50S

1. INTRODUCTION

The ECOPOOLTECH EU50 Pool Heater is an efficient electric heat pump designed to extend your swimming season by warming above-ground pools up to 5000 gallons. This manual provides essential information for safe installation, operation, and maintenance of your pool heater.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before installing or operating this appliance. Failure to follow these instructions could result in property damage, serious injury, or death.

- Ensure the unit is connected to a properly grounded outlet.
- Do not operate the heater 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 to prevent damage.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.

3. PRODUCT OVERVIEW

The ECOPOOLTECH EU50 Pool Heater is a compact and efficient unit. Key components include the main heat pump unit, water inlet and outlet ports, a control panel, and a fan for heat exchange.



Figure 3.1: Front view of the ECOPOOLTECH EU50 Pool Heater, showing the fan, control panel, and water inlet/outlet ports.



Figure 3.2: Multiple views of the ECOPOOLTECH EU50 Pool Heater, illustrating its compact design and various angles.

4. SETUP AND INSTALLATION

The EU50 pool heater is designed for fast and easy hookup without professional installation. Follow these steps for proper setup:

1. **Placement:** Position the heater near your pool, ensuring adequate air circulation around the unit.
2. **Hose Preparation:** If necessary, cut your existing pool filter hoses to the appropriate length for connecting to the heater.
3. **Adapter Installation:** Attach the provided adapters to the water inlet and outlet ports of the heater. Ensure all seals are properly seated to prevent leaks.
4. **Hose Connection:** Connect the pool filter hoses to the heater's adapters using the provided clamps. Ensure connections are secure and watertight.
5. **Power Connection:** Plug the built-in 10ft power cable into a standard 120V outlet.
6. **Water Flow:** Ensure your pool pump is running and there is sufficient water flow through the heater (1000-1500 GPH recommended).

EASY INSTALLATION

110V-Plug In Pool Heater



Figure 4.1: Diagram illustrating the simple connection of the pool heater to an above-ground pool and filter pump.

PACKING LIST



Figure 4.2: Contents of the product packaging, including the heater unit, power cable, adapters, and user manual.

Installation Video Guide

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Video 4.1: A detailed video guide demonstrating the installation process of the ECOPOOLTECH EU50 pool heater, including hose connections and initial setup.

5. OPERATING INSTRUCTIONS

The EU50 features an intelligent control system for maintaining a stable water temperature. The unit operates efficiently, with a high Coefficient of Performance (COP) of 5.62.

- **Power On/Off:** Use the control panel to turn the unit on or off.
- **Temperature Setting:** Adjust the desired water temperature using the controls on the unit's display. The intelligent control system will maintain the temperature within $\pm 2^{\circ}\text{F}$ of your setting.
- **Optimal Conditions:** The heater operates optimally in outdoor temperatures ranging from 40°F to 105°F . Under ideal conditions, it can heat pools up to 100°F .
- **Pool Size:** This model is ideal for pools up to 5000 gallons (e.g., no bigger than 15ft round or 9x18ft

rectangular).

INTELLIGENT CONTROL SYSTEM

The intelligent temperature control system can maintain a stable temperature level according to your settings.

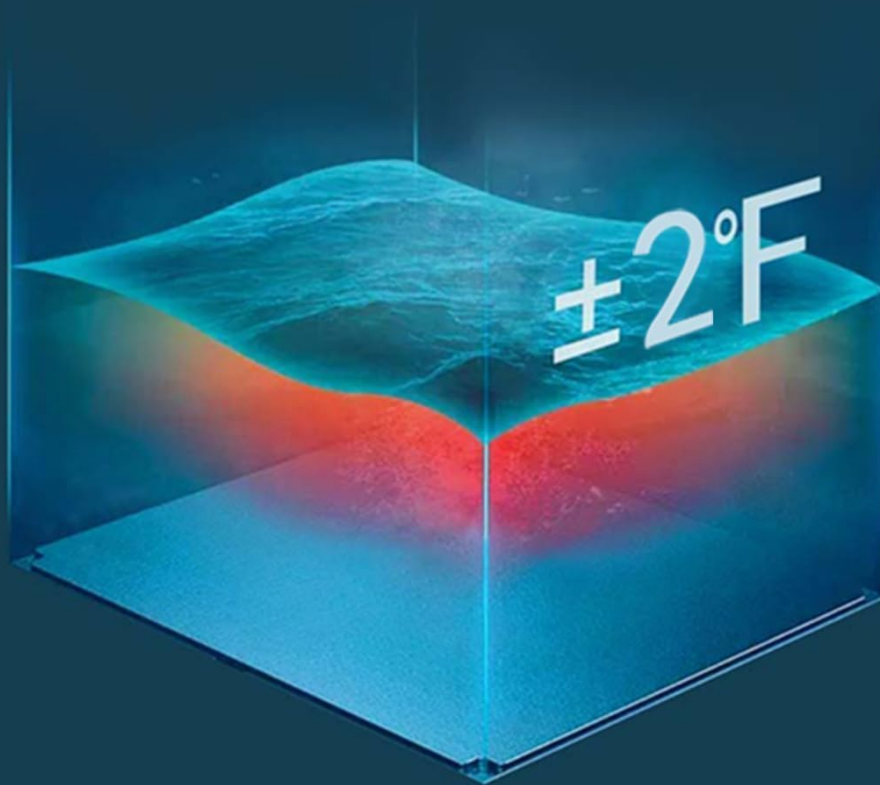


Figure 5.1: Illustration of the intelligent control system, which maintains pool temperature within a narrow range.



Figure 5.2: Visual representation of the pool heater's capacity, suitable for pools up to 5000 gallons.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your ECOPOOLTECH EU50 Pool Heater.

- **Filter Maintenance:** Regularly check and clean or replace your pool filter. A clogged filter can restrict water flow and trigger error codes.
- **Unit Cleaning:** Keep the exterior of the unit clean and free from debris to ensure proper airflow through the fan and heat exchanger.
- **Winterization:** Before freezing temperatures, drain all water from the unit and store it in a dry, protected area.
- **Pool Cover:** Using a pool cover significantly helps to prevent heat loss and facilitates faster heating of your pool to the desired temperature.



Figure 6.1: A pool cover helps retain heat and improve heating efficiency.

7. TROUBLESHOOTING

If you encounter issues with your pool heater, refer to the following common problems and solutions:

Problem/Error Code	Possible Cause	Solution
Unit not starting / EH Code (High Pressure)	Internal wiring issue (e.g., SW1 wire disconnected) or water flow restriction.	Check internal wiring (refer to manufacturer's specific instructions for SW1 wire). Ensure adequate water flow from the pump and clear any blockages in hoses or filters.
E06 Error Code	Water flow issue, often due to a dirty or clogged filter.	Clean or replace your pool filter. Ensure the pool pump is running and providing sufficient water flow to the heater.
Insufficient Heating	Pool size exceeds capacity, low ambient temperature, or no pool cover.	Ensure pool size is within recommended limits (up to 5000 gallons). Use a solar cover to minimize heat loss, especially during cooler periods.

8. SPECIFICATIONS

Specification	Detail
Model Number	EE50S
Output	Rated 14000 BTU (Max 16184 BTU)
Rated/Max Current	6.2/8.0 Amp
Rated C.O.P.	5.62 W/W
Voltage	120V/1PH/60Hz
Advised Water Flow	1000-1500GPH
Net Dimension	15.5"x15"x21" inch
Water Connection	1-1/4"
Net Weight	54lb
Product Dimensions	20.31 x 19.69 x 27.56 inches
Item Weight	55 pounds

Specification	Detail
Manufacturer	ECO POOLTECH
Country of Origin	China

Note: Rated Performance at Air 80°F, Humidity 80%, Water Heated to 80°F.

Max 16184 BTU

VERIFIED PERFORMANCE, NO FALSE CLAIMS

As a responsible brand, ECO POOLTECH ensures all data is based on tested results, with no inflated claims.



Figure 8.1: The ECOPOOLTECH EU50 Pool Heater is ETL Certified, ensuring safety and quality standards.

9. WARRANTY AND SUPPORT

ECOPOOLTECH is committed to providing excellent customer service. For any questions, technical support, or warranty claims, please contact our 24-hour online service center. Refer to the contact information provided in your user manual or on the product nameplate.

The product typically comes with a 30-day easy returns policy. For detailed warranty information, please consult the documentation included with your product or contact ECOPOOLTECH directly.

You can also visit the official ECOPOOLTECH store for more information: [ECOPOOLTECH Store](#)

