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> [Hayward HeatPro HP21404T In-Ground Pool Heat Pump User Manual](#)

Hayward HP21404T

Hayward HeatPro HP21404T In-Ground Pool Heat Pump User Manual

Model: HP21404T | Brand: Hayward

PRODUCT OVERVIEW

The Hayward HeatPro HP21404T is an energy-efficient heat pump designed to maintain optimal water temperature for in-ground pools. It features a durable construction and a titanium heat exchanger for effective heat transfer, extending your swimming season.

Key Features

- Acoustic compressor cover and profiled fan blade for quiet operation and efficient performance.
- Ultra-Gold corrosion-resistant evaporator fin for enhanced durability, especially in coastal environments.
- Titanium heat exchanger designed for maximum heat transfer, efficiency, and reliability, offering excellent salt water and chemical corrosion resistance.
- Durable injection-molded UV-resistant body panels that are impervious to rust and deterioration.
- 2-inch x 2 1/2-inch CPVC Union Plumbing Connections for common installation or service, adaptable to larger plumbing for improved efficiencies.



Figure 1: Hayward HeatPro HP21404T In-Ground Pool Heat Pump.

SETUP AND INSTALLATION

Installation of the Hayward HeatPro HP21404T heat pump requires professional expertise to ensure proper function and safety. All local electrical and plumbing codes must be strictly followed. Proper airflow spacing around the unit is essential for optimal performance and efficiency.

Electrical Requirements

- The unit typically requires a dedicated 50 AMP breaker circuit.
- All electrical connections must be performed by a qualified electrician and comply with local regulations.

Plumbing Connections

- The unit features 2-inch x 2 1/2-inch CPVC union plumbing connections.
- Ensure secure and leak-free connections to the pool's filtration system.

Placement

- Install the heat pump on a stable, level surface, such as a concrete pad.
- Maintain adequate clearance around the unit (as specified in the full installation manual) for proper airflow and maintenance access.

OPERATING INSTRUCTIONS

The HeatPro HP21404T features an intuitive control panel for easy temperature management. Ensure the pool pump is running to allow water flow through the heat pump before operating the unit.

Control Panel Functions

- **Power On/Off:** Use the designated button on the control panel to turn the unit on or off.
- **Temperature Setting:** Adjust the desired pool or spa water temperature using the up (+) or down (-) arrow buttons.
- **Mode Selection:** Select between Pool heating mode or Spa heating mode, if applicable to your model.
- **Unit of Measure:** Toggle between Fahrenheit (°F) and Celsius (°C) for temperature display.

Setting Desired Temperature

1. Ensure your pool's circulation pump is active, allowing water to flow through the heat pump.
2. Press the 'Mode' button to select the desired heating mode (Pool or Spa).
3. Use the '+' or '-' buttons to set your preferred water temperature. The unit will automatically work to achieve and maintain this temperature.

MAINTENANCE

Regular maintenance is crucial for ensuring the longevity, efficiency, and optimal performance of your Hayward HeatPro heat pump.

Routine Checks

- **Clear Obstructions:** Keep the area around the heat pump clear of debris, leaves, and any other obstructions to ensure proper airflow to the evaporator coil.
- **Evaporator Fin Cleaning:** Periodically inspect the evaporator fins for cleanliness. If dirty, gently clean them with a soft brush or a garden hose. Avoid using high-pressure washers.
- **Check for Leaks:** Regularly inspect all plumbing connections for any signs of leaks. Note that a small amount of condensation draining from the unit is normal during operation; this should not be confused with a leak.

Winterization

In regions susceptible to freezing temperatures, proper winterization of your heat pump is essential to prevent damage. Consult a qualified pool professional for specific winterization procedures tailored to your climate and pool system.

TROUBLESHOOTING

This section addresses common issues you might encounter with your HeatPro heat pump. For complex problems or issues not listed here, it is recommended to contact qualified service personnel.

Common Issues

- **Unit Not Heating:**
 - Verify that the desired temperature setting is higher than the current pool water temperature.

- Ensure the pool pump is running and water is actively flowing through the heat pump.
- Check the control panel for any displayed error codes. Refer to the complete product manual for specific code interpretations.

- **Water Leaks:**

- Inspect all plumbing connections for loose fittings or damaged seals.
- Differentiate between actual leaks and condensation. Condensation is a normal byproduct of heat pump operation and typically drains from the bottom of the unit.

- **Unusual Noises:**

- Ensure the fan blades are free from any obstructions.
- If unusual noises persist, power off the unit and contact a certified service technician.

SPECIFICATIONS

The following are technical specifications for the Hayward HeatPro HP21404T. Please note that some listed dimensions and electrical values may be approximate or refer to internal components; always consult the official product manual for precise and complete technical data.

Feature	Detail
Brand	Hayward
Model Number	HP21404T
Style / BTU	140,000 BTU
Material	Stainless Steel
Product Dimensions (L x W x H)	2"L x 1"W x 2"H <i>(Note: This dimension appears to be for a component, not the full unit)</i>
Power Source	Corded Electric
Item Weight	287 Pounds
Maximum Flow Rate	75 Cubic Feet Per Minute
Voltage	12 Volts <i>(Note: This voltage is typically for control circuits; main power usually requires higher voltage.)</i>
UPC	610377124836

WARRANTY INFORMATION

The Hayward HeatPro HP21404T heat pump is covered by a manufacturer's warranty. For detailed information regarding warranty terms, coverage, and registration, please refer to the official warranty document included with your product or visit the Hayward official website.

Note: The provided product data lists the manufacturer warranty description as the product title. Specific warranty details should be obtained from the official product documentation.

SUPPORT

For technical assistance, service inquiries, or additional product information, please contact Hayward Customer Support.

You can also visit the official Hayward store for more resources: [Hayward Official Store](#)

ABOUT HAYWARD

Hayward is a company dedicated to delivering exceptional products, outstanding service, and innovative technology to enhance the experience of water. Learn more about the Hayward story:

Your browser does not support the video tag.

Video 1: Hayward: An American Story Since 1925. This video provides an overview of the Hayward brand and its history, not specific operational instructions for the HP21404T heat pump.