Varpoolfaye KSPF-025L1VUA1

Varpoolfaye 88000 BTU Electric Pool Heat Pump (24000 Gallon, 220V) Instruction Manual

Model: KSPF-025L1VUA1

1. Product Overview

The Varpoolfaye 88000 BTU Electric Pool Heat Pump is designed to efficiently heat or cool swimming pools up to 24000 gallons. This 220V unit features inverter technology for energy efficiency, a smart touch control panel, and WiFi connectivity for remote operation. It is suitable for both freshwater and saltwater pools.

Figure 1: Varpoolfaye 88000 BTU Electric Pool Heat Pump with key specifications.

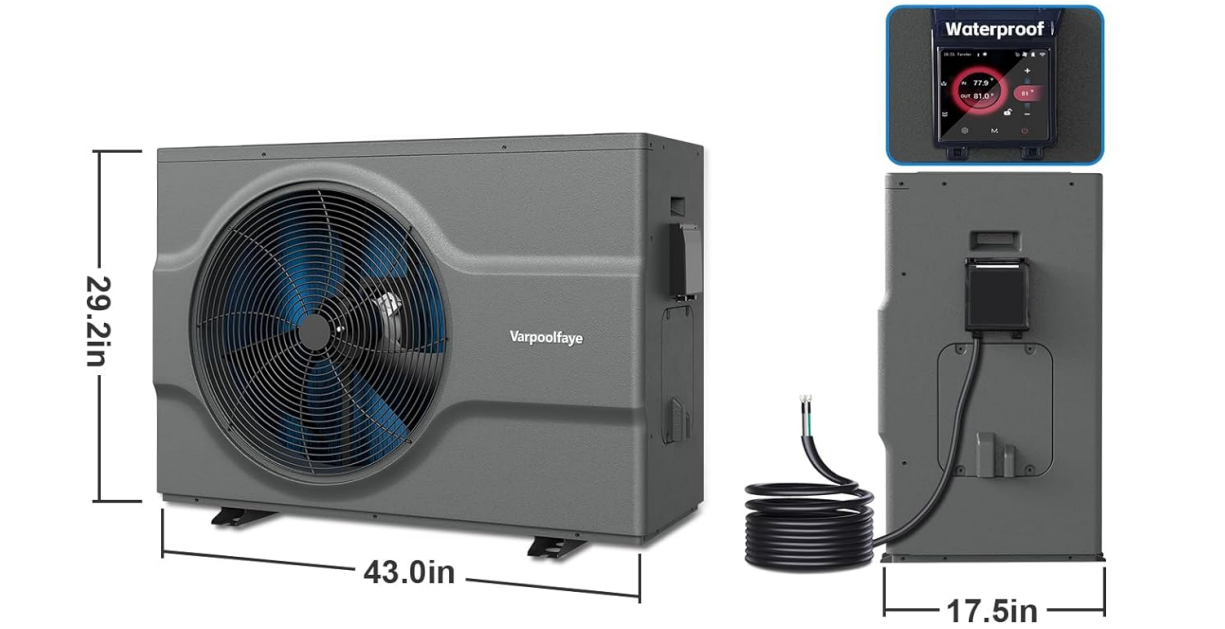
Key Features:

- **High Efficiency:** Delivers 88000 BTU with a COP of 12.5, utilizing air energy for cost-effective heating and cooling.
- **Quiet Operation:** Operates at a low noise level of 47dB, ensuring a peaceful pool environment.
- **Inverter Technology:** Features inverter mode for extended lifespan and reduced energy consumption.
- **Smart Control:** Equipped with an intelligent touch control panel and one-button fast heat function.
- **WiFi Connectivity:** Remote control via a dedicated app to adjust temperature, schedule run times, and switch modes.
- **Versatile Use:** Compatible with both freshwater and saltwater pools.

2. Package Contents

Before beginning installation, verify that all components are present in the package:

PACKING LIST



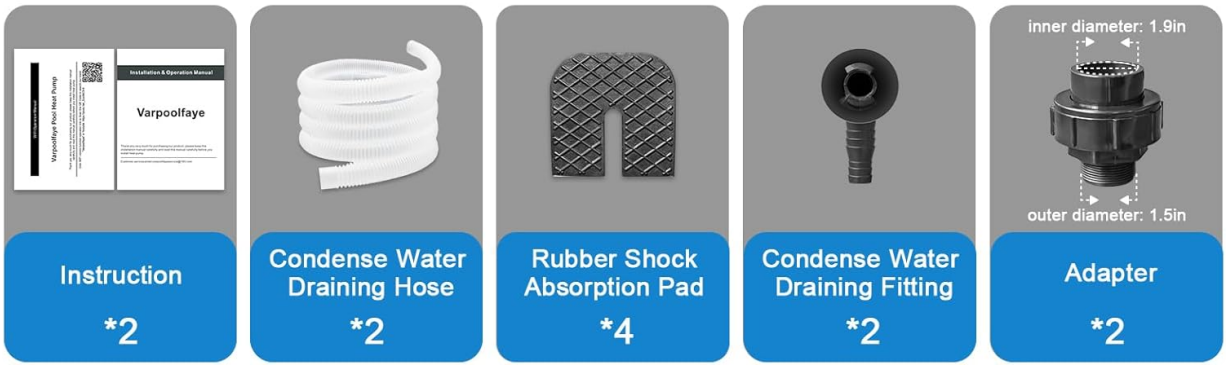


Figure 2: Included components in the Varpoolfaye pool heat pump package.

- Varpoolfaye Electric Pool Heat Pump Unit
- Instruction Manual (x2)
- Condense Water Draining Hose (x2)
- Rubber Shock Absorption Pad (x4)
- Condense Water Draining Fitting (x2)
- Adapter (1.5-inch outer diameter)

3. Setup and Installation

Proper installation is crucial for optimal performance and safety. Ensure the unit is placed on a stable, level surface with adequate airflow.

3.1 Water Connection

The heat pump connects to your pool's filtration system. It includes 1.5-inch connectors and a 118-inch cord for quick setup. The recommended flow rate for efficient operation is 3000-4000 Gallons Per Hour (GPH).

Figure 3: Water connection options for the heat pump.

1. Connect the water inlet from your pool pump to the heat pump's inlet.
2. Connect the water outlet from the heat pump back to your pool.
3. Use the provided 1.5-inch adapter for PVC pipe connections. For hose connections, a separate 40mm to 1 1/2 inch hose conversion kit may be required. It is recommended to use the PVC pipe connection for better leak prevention.

3.2 Electrical Connection

This unit requires a 220V electrical supply. Ensure proper grounding and consult a qualified electrician if you are unsure about the electrical requirements.

3.3 WiFi Setup

The unit supports WiFi connectivity for remote control via a smartphone app. If experiencing difficulty connecting directly to your home WiFi, consider using a WiFi extender to boost the signal strength near the unit. The app allows you to adjust temperature, schedule run times, and switch modes.

Figure 4: Remote control and enhanced touchscreen interface.

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Video 1: Demonstration of the Varpoolfaye 16000 BTU pool heater in operation, showing its connection to a pool and a filter pump, and displaying the current temperature on its digital screen. This video illustrates the general setup and quiet operation of a Varpoolfaye heat pump.

4. Operating Instructions

The Varpoolfaye heat pump is designed for user-friendly operation with its intelligent touch control panel and remote app control.

4.1 Temperature Control

Use the intelligent touch control panel on the unit or the mobile app to set your desired pool temperature. The unit can both heat and cool your pool water.

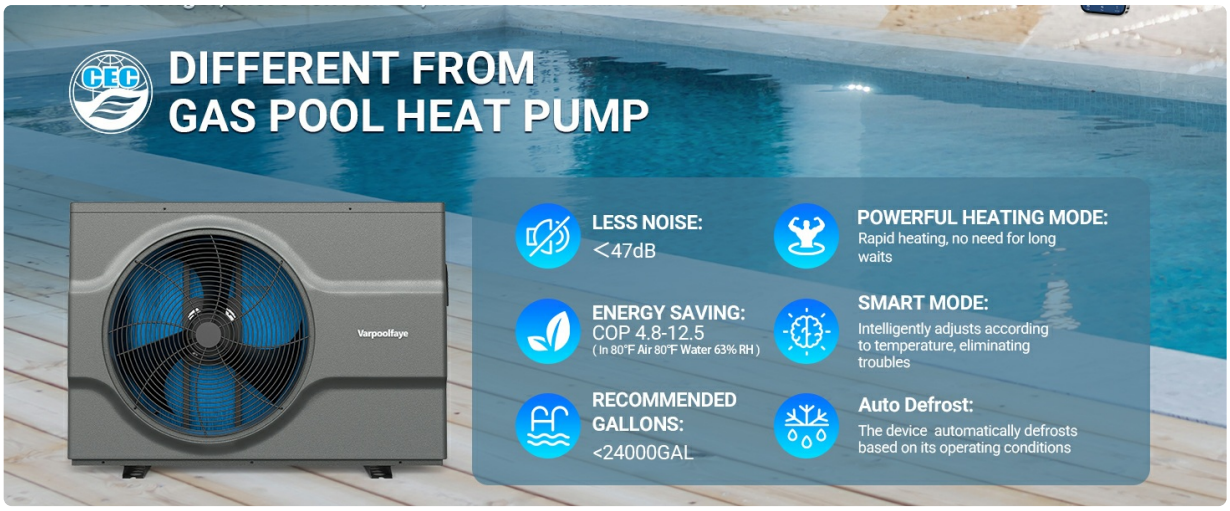

Figure 5: Advanced control features of the 4th generation controller.

4.2 Heating Performance

The time required to heat your pool depends on several factors, including ambient air temperature, initial water temperature, and pool size. For optimal heating, ensure your pool pump is running at the recommended flow rate.

88000 BTU Heat Pump Selection Guide

Max pool depth	Gallons	Required at this ambient fahrenheit	Maximum heatable temperature
3.94 ft	24000	72°F	93°F
	20000	72°F	98°F
	24000	59°F	80°F
	20000	59°F	85°F
Max pool depth	Gallons	Required at this ambient fahrenheit	Maximum heatable temperature
4.95 ft	24000	72°F	98°F
	20000	72°F	104°F
	24000	59°F	85°F
	20000	59°F	90°F

Figure 6: Heat pump selection guide based on pool size and ambient temperature.

Refer to the selection guide for expected performance based on your pool's characteristics. Lower ambient temperatures will extend heating times.

4.3 Energy Efficiency

The unit utilizes R32 refrigerant, contributing to over 45% energy cost savings compared to older R410A systems. The inverter compressor adjusts its operation for lower energy use during both heating and cooling cycles.

Figure 7: Energy efficiency comparison and COP rating.

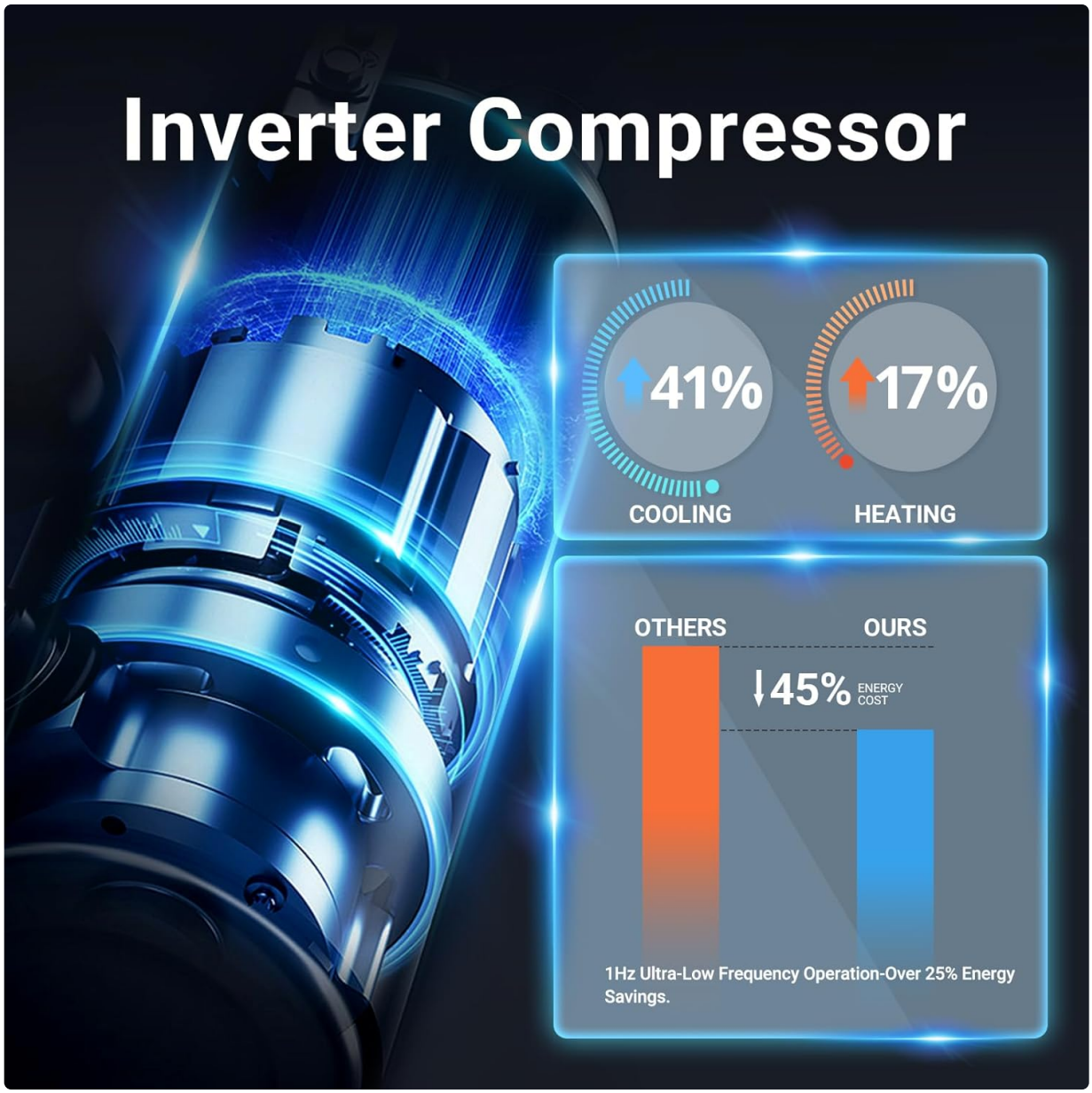

Figure 8: Inverter compressor technology for optimized performance.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Varpoolfaye heat pump.

- **Keep Area Clear:** Ensure the area around the heat pump is free from debris, leaves, and other obstructions to maintain proper airflow for the fan and coils.
- **Coil Cleaning:** Periodically inspect and clean the evaporator coils to prevent buildup that can reduce efficiency.
- **Water Flow:** Verify that your pool pump is providing adequate water flow (3000-4000 GPH) to the heat pump. Insufficient flow can hinder heating performance.
- **Pool Cover:** Using an insulated pool cover, especially overnight, significantly improves heating efficiency and reduces energy consumption.
- **Drainage:** Ensure the condense water draining hoses are clear and properly positioned to allow for efficient water removal.

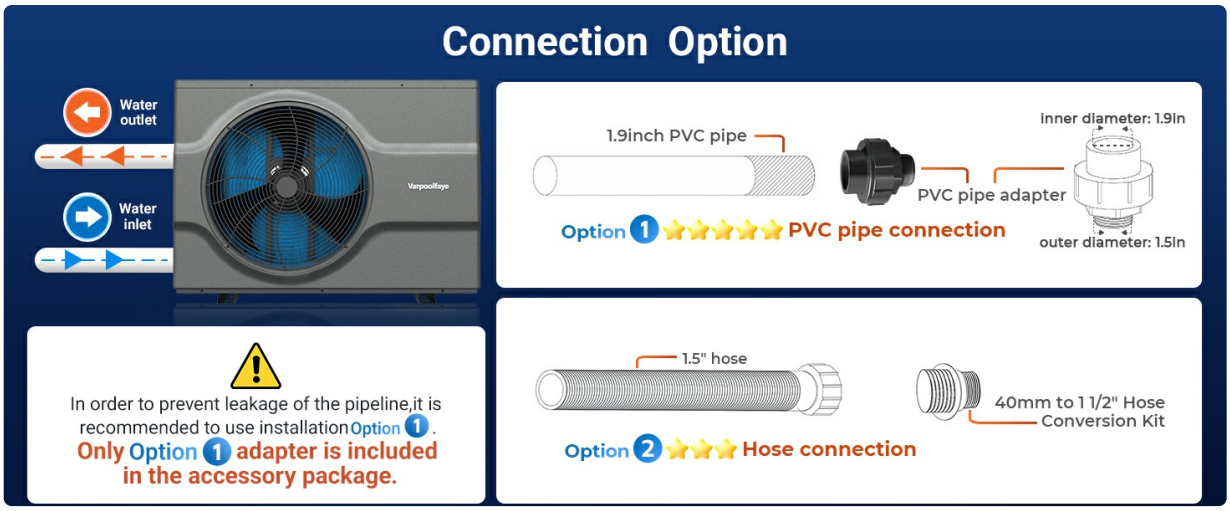

Figure 9: Importance of using a pool cover for efficiency.

6. Troubleshooting

If you encounter issues with your Varpoolfaye heat pump, refer to the following common troubleshooting tips:

- **Slow Heating:**
  - Verify the pool pump's flow rate meets the recommended 3000-4000 GPH.
  - Check ambient air temperature; lower temperatures will naturally slow heating.
  - Ensure the pool is covered when not in use, especially overnight, to retain heat.
  - Clean the heat pump's coils and ensure proper airflow.
- **WiFi Connection Issues:**
  - Ensure the unit is within range of your WiFi router.
  - Consider using a WiFi extender if the signal is weak at the installation location.
  - Follow the app's pairing instructions carefully.
- **Unit Not Heating/Cooling:**
  - Check the power supply and ensure the unit is receiving 220V.
  - Verify that the pool pump is running and water is flowing through the unit.
  - Inspect for any error codes on the control panel.
- **Unit Freezing/Ice Formation:**
  - This can occur in very low ambient temperatures. Ensure the unit is operating within its specified temperature range.
  - If ice forms, turn off the unit and allow it to thaw naturally before restarting.
- **Cooling Mode Activates Automatically:**
  - Check your set temperature and current pool temperature. The unit may switch to cooling if the pool temperature exceeds the set point.
  - If this occurs unexpectedly, consult the user manual for specific mode settings or contact customer support.

For persistent issues, please contact Varpoolfaye customer support.

7. Specifications

Feature	Specification
Brand	Varpoolfaye
Model Number	KSPF-025L1VUA1
Heating/Cooling Capacity	88000 BTU
Max Pool Capacity	24000 Gallons
Voltage	220 Volts
Coefficient of Performance (COP)	12.5
Noise Level	<47dB
Refrigerant Type	R32
Water Resistance Rating	IPX4
Product Dimensions (L x W x H)	45" x 18" x 30"
Item Weight	152 Pounds
Power Source	Air-Powered
Material	Galvanized
Recommended Flow Rate	3000-4000 GPH

8. Warranty and Support

The Varpoolfaye Electric Pool Heat Pump comes with a**3-year warranty**. For any product inquiries, technical assistance, or warranty claims, please contact Varpoolfaye customer support. Our customer service team is dedicated to providing prompt and helpful solutions.
Contact information can typically be found on the official Varpoolfaye website or within the product packaging.