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› Varpoolfaye 16000 BTU Swimming Pool Heat Pump Instruction Manual

Varpoolfaye KSPF-005L3R1A1

Varpoolfaye 16000 BTU Swimming Pool Heat Pump

MODEL: KSPF-005L3R1A1

Instruction Manual

1. Introduction

Thank you for choosing the Varpoolfaye 16000 BTU Swimming Pool Heat Pump. This unit is designed to efficiently heat and cool your above-ground or inground pool up to 5,000 gallons, ensuring comfortable water temperatures year-round. This manual provides essential information for safe installation, operation, and maintenance of your heat pump.



Figure 1: Varpoolfaye 16000 BTU Air-source Pool Heat Pump with key features highlighted.

2. Safety Information

Please read all safety instructions carefully before installation and operation to prevent injury or damage to the unit.

- Ensure the unit is connected to a properly grounded 110V-120V/60Hz electrical outlet.
- Do not operate the unit if the power cord or plug is damaged.
- Keep children and pets away from the unit during operation.
- Do not block the air intake or exhaust vents of the heat pump.
- Always disconnect power before performing any maintenance or repairs.
- Installation should be performed by a qualified technician if you are unsure about any steps.

3. Product Features

- **Dual Heating & Cooling:** Provides efficient heating (59°F to 104°F) and cooling (46°F to 82°F) for pools up to 5,000

gallons.

- **High-Efficiency Energy Savings:** Features a powerful compressor with a Coefficient of Performance (COP) of 4.3, reducing electricity costs.
- **Smart WiFi Control & Scheduling:** Remote monitoring and control via a dedicated mobile app, including customized on/off schedules.
- **Ultra-Quiet Operation:** Operates at a low noise level of just 50dB for a peaceful outdoor environment.
- **Plug-and-Play 110V Installation:** Simple setup with a standard 110V-120V/60Hz outlet, including a 118-inch power cord and two DN32-38 mm hose connectors.

4. Package Contents

Verify that all items listed below are included in your package:

PACKING LIST

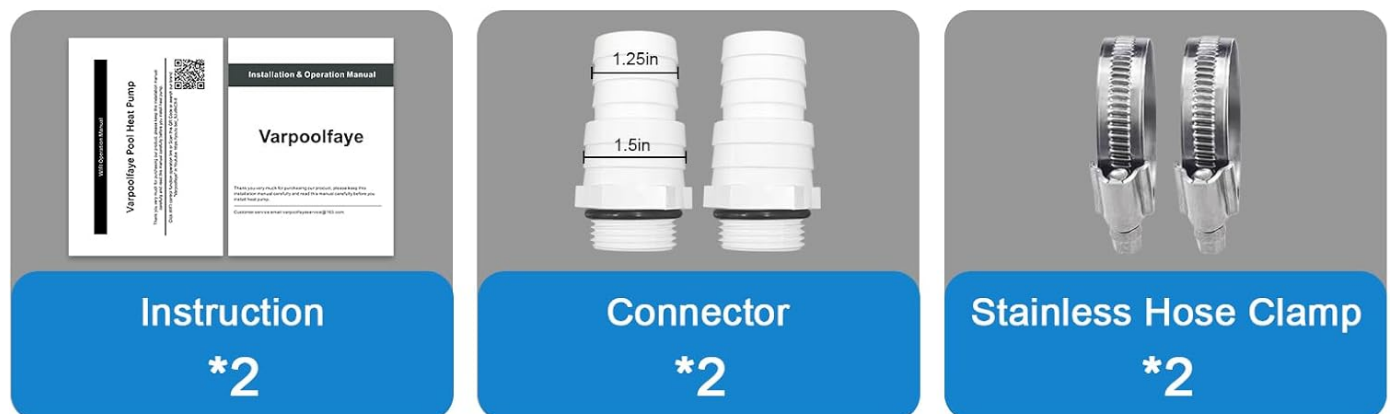
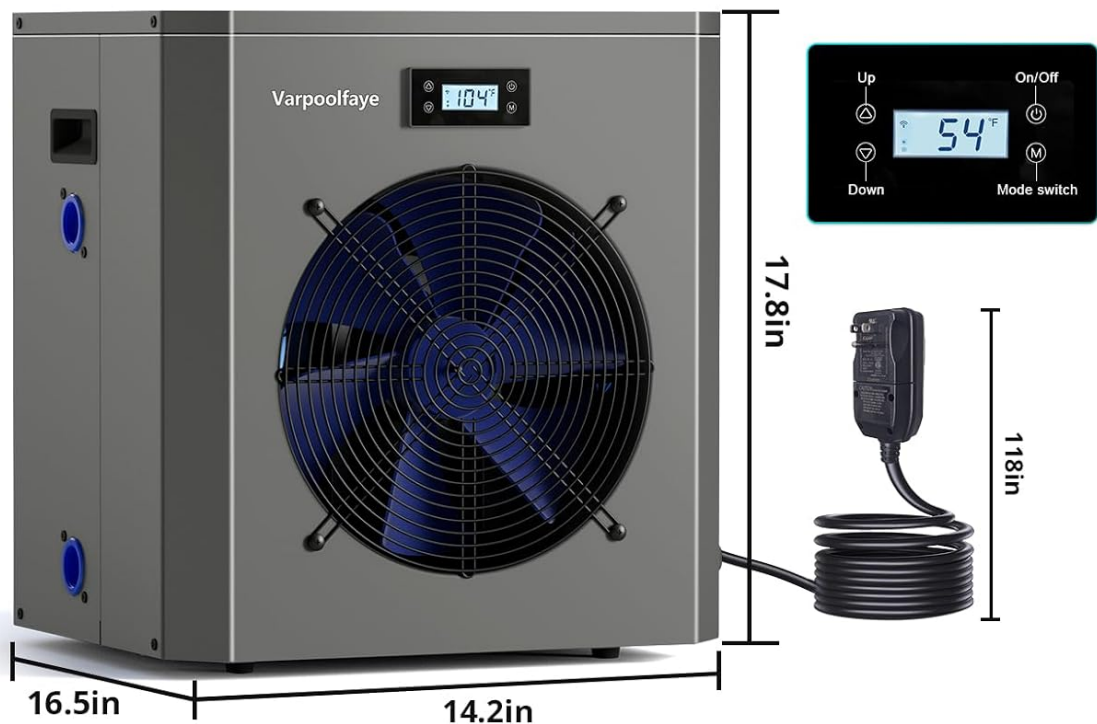


Figure 2: Included components in the Varpoolfaye pool heat pump package.

- Varpoolfaye 16000 BTU Pool Heat Pump Unit (x1)
- Instruction & Operation Manual (x2)

- DN32-38 mm Hose Connectors (x2)
- Stainless Hose Clamps (x2)
- Power Cord (118-inch, attached to unit)

5. Setup and Installation

The Varpoolfaye pool heat pump is designed for straightforward installation. Follow these steps carefully:

1. **Placement:** Choose a well-ventilated outdoor location for the heat pump, ensuring at least 20 inches of clear space around the unit for proper airflow. Avoid enclosed spaces.
2. **Electrical Connection:** Connect the heat pump to a dedicated 110V-120V/60Hz grounded electrical outlet. The unit comes with a 118-inch power cord. Ensure the circuit can handle the unit's power requirements.
3. **Plumbing Connection:**
 - Identify the water inlet and outlet ports on the heat pump.
 - Connect your pool pump's return line to the heat pump's inlet port using one of the provided DN32-38 mm hose connectors and a stainless hose clamp.
 - Connect the heat pump's outlet port back to your pool's return jet using the second hose connector and clamp.
 - Ensure all connections are secure and watertight.
4. **Pool Pump Requirement:** For optimal performance, pair the heat pump with a pool pump that has a recommended flow rate of 700 GPH to 1000 GPH.



Figure 3: Typical plumbing connection diagram for the pool heat pump.

6. Operating Instructions

Once installed, operating your Varpoolfaye heat pump is simple via the integrated touchscreen or the mobile app.

6.1. Touchscreen Control

Remote Control + Enhanced Touchscreen

Can be controlled anytime and anywhere, with advance timing settings, allowing you to swim at will.



Figure 4: Touchscreen interface for direct control.

- **Power On/Off:** Press the **On/Off** button to power the unit.
- **Mode Selection:** Press the **Mode** button to switch between Heating and Cooling modes.
- **Temperature Adjustment:** Use the **Up** and **Down** arrows to set your desired water temperature.
- **Temperature Range:**
 - Heating: 59°F to 104°F (15°C to 40°C)
 - Cooling: 46°F to 82°F (8°C to 28°C)

6.2. Smart WiFi App Control

The heat pump can be controlled remotely via the Smart Life mobile app. Download the app from the App Store or Google Play.



AIR-SOURCE POOL HEAT PUMP

Figure 5: Remote control via the Smart Life mobile application.

1. **Download App:** Search for "Smart Life" in your device's app store and install it.
2. **Register/Login:** Create an account or log in to your existing Smart Life account.
3. **Add Device:** Follow the in-app instructions to add your Varpoolfaye pool heat pump. Ensure your phone is connected to a 2.4GHz Wi-Fi network during the pairing process.
4. **Remote Control:** Once paired, you can monitor current water temperatures, adjust settings, change modes, and set customized on/off schedules from anywhere.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your heat pump.

- **Clean Coils:** Periodically inspect and clean the evaporator coils to remove dirt, leaves, and debris. A clean coil ensures efficient heat exchange.
- **Clear Airflow:** Ensure that the area around the heat pump remains clear of obstructions to allow for proper airflow.
- **Check Water Connections:** Regularly inspect all plumbing connections for leaks and tighten if necessary.
- **Winterization:** If you live in an area with freezing temperatures, follow proper winterization procedures to protect the unit from ice damage. Consult a pool professional if unsure.
- **Use a Pool Cover:** Using a pool cover significantly improves heating efficiency and reduces heat loss, saving energy.



Figure 6: Utilizing a pool cover to enhance heating efficiency.

8. Troubleshooting

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Unit does not power on	No power supply; tripped breaker; faulty wiring	Check power connection, reset circuit breaker, inspect wiring (if qualified).
Pool not heating/cooling	Incorrect temperature setting; low water flow; dirty coils; ambient temperature too low/high	Verify temperature setting, check pool pump flow rate, clean coils, ensure ambient conditions are within operating range.
Unusual noise from unit	Debris in fan; loose components; compressor issue	Disconnect power and check for debris in fan. If noise persists, contact support.

Problem	Possible Cause	Solution
Water leaks	Loose plumbing connections; damaged hoses	Tighten hose clamps, inspect hoses for damage and replace if necessary.

9. Specifications

Specification	Value
Model Number	KSPF-005L3R1A1
BTU Output	16000 BTU
Power Supply	110V-120V/60Hz
Recommended Pool Size	Up to 5000 Gallons
Heating Temperature Range	59°F to 104°F (15°C to 40°C)
Cooling Temperature Range	46°F to 82°F (8°C to 28°C)
Coefficient of Performance (COP)	4.3
Noise Level	50dB
Product Dimensions	16.5 x 14.2 x 17.8 inches
Item Weight	1.19 pounds
Manufacturer	Varpoolfaye

16000 BTU Heat Pump Selection Guide			
Max pool depth	Gallons	Required at this ambient fahrenheit	Maximum heatable temperature
3.28 ft	5000	72°F	89°F
	3000	72°F	97°F
	5000	59°F	75°F
	3000	59°F	84°F
Max pool depth	Gallons	Required at this ambient fahrenheit	Maximum heatable temperature
3.94 ft	5000	72°F	90°F
	3000	72°F	100°F
	5000	59°F	78°F
	3000	59°F	90°F

Figure 7: 16000 BTU Heat Pump Selection Guide based on pool depth and gallons.

10. Warranty and Support

Warranty: The Varpoolfaye 16000 BTU Swimming Pool Heat Pump comes with a 1-year limited warranty from the date of purchase, covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Support: For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Varpoolfaye customer support. Refer to the contact information provided on the product packaging or the official Varpoolfaye website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question