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VARMINPOOL KSPF-005L3R1A2

VARMINPOOL 16000BTU Smart Inverter Pool Heat Pump Instruction Manual

Model: KSPF-005L3R1A2
For Above Ground Pools Up to 5400 Gallons

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your VARMINPOOL 16000BTU Smart Inverter Pool Heat Pump. Please read this manual thoroughly before using the product and retain it for future reference.

Product Overview

The VARMINPOOL 16000BTU Smart Inverter Pool Heat Pump is designed to efficiently heat above-ground swimming pools up to 5400 gallons (or approximately 15 ft in diameter). It features smart inverter technology for energy savings and Wi-Fi connectivity for convenient remote control.



Figure 1: VARMINPOOL 16000BTU Smart Inverter Pool Heat Pump unit.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- The heat pump must be installed by qualified professionals according to the instruction manual and local electrical codes.
- Always disconnect all power before performing maintenance or repairs on the unit.
- Ensure the water pump is running before turning on the heat pump.
- The power supply is 110-120V/60Hz. Verify your electrical supply matches these requirements.
- During winter seasons or prolonged periods of non-use, cut off power supply and drain water out of the system to prevent the heat exchanger and pipeline from freezing and breaking.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking:

- VARMINPOOL 16000BTU Pool Heat Pump Unit
- Hose Adapters (2x)
- Hose Clamps (2x)
- Instruction Manual

4. INSTALLATION & SETUP

4.1 Site Selection

Place the heat pump on a stable, level surface, ensuring adequate airflow around the unit. Maintain a distance of at least 10 feet from the pool for optimal water flow.

4.2 Plumbing Connection

The heat pump integrates into your existing pool filtration system. Water flows from the pool, through the filter pump, then through the heat pump, and back to the pool.

1. **Install Hose Adapters:** Attach the provided hose adapters to the water inlet and water outlet ports on the heat pump. Ensure a secure, watertight seal.
2. **Connect Hoses:** Connect the first hose from your filter pump's outlet to the heat pump's water inlet. Connect the second hose from the heat pump's water outlet back to your pool's return inlet. Use the provided hose clamps to secure all connections.
3. **Condensate Drain:** Connect the condensate drain line to the designated port on the bottom of the unit. This line will direct condensation away from the unit.

Your browser does not support the video tag.

Video 1: This video demonstrates the general plumbing installation process for a pool heat pump, showing how to connect hoses between the pool, filter pump, and heat pump unit.

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Video 2: This video illustrates the detailed steps for connecting the 16000 BTU pool heater, including cutting hoses, installing adapters, and securing connections with clamps.



Figure 2: Rear view of the heat pump, highlighting the water inlet and outlet connections.

4.3 Electrical Connection

The heat pump requires a 110-120V/60Hz power supply. It is recommended to use a 15-amp breaker for optimal safety and performance. Consult a licensed electrician for proper wiring and connection to your main electrical panel.

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Video 3: This video provides instructions on how to install a pool heat pump, including details on electrical connections and plumbing.

5. OPERATION

5.1 Control Panel

The heat pump features an intuitive control panel for direct operation. Use the buttons to power on/off, select modes, and adjust the desired temperature.

5.2 Wi-Fi Control (Smart App)

For enhanced convenience, the heat pump can be controlled remotely via a dedicated smartphone application. Download the app from your device's app store (Google Play or Apple App Store) and follow the in-app instructions to pair your device with the heat pump. This allows for remote temperature setting, scheduling, and monitoring.



Figure 3: The heat pump's Wi-Fi control unit and a smartphone displaying the control application.

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Video 4: This video demonstrates the smart app control features of the Varminpool 16000 BTU Smart Pool Heat Pump, including remote temperature adjustment and scheduling.

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Video 5: This video showcases the functionality of the 16000BTU Pool Heat Pump, including its quiet operation and smart control features via the mobile application.

5.3 Smart Inverter Technology

The smart inverter technology automatically adjusts the heat pump's power output (0-100%) based on the heating demand. This ensures efficient performance, maintains the desired temperature, and reduces energy consumption.

ARMINPOOL

WiFi Control Unit

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Figure 4: Diagram illustrating the energy-saving benefits of the smart inverter technology.

6. MAINTENANCE

6.1 Routine Cleaning

- Regularly inspect and clean the evaporator fins to ensure optimal airflow and efficiency.
- Keep the area around the heat pump clear of debris, leaves, and other obstructions.

6.2 Winterization

Before winter or extended periods of non-use, ensure the heat pump is properly winterized:

- Disconnect the power supply to the unit.
- Drain all water from the heat pump and associated plumbing to prevent freezing damage.
- Store the unit in a dry, protected area if possible, or cover it with a weather-resistant cover.

7. TROUBLESHOOTING

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

- **No Power:** Check the circuit breaker and ensure the unit is properly plugged into a functional outlet.
- **Not Heating:** Verify that the water pump is running and that the desired temperature is set correctly on the control panel or app. Ensure there are no obstructions in the water flow.
- **Wi-Fi Connection Issues:** Ensure your Wi-Fi network is active and the heat pump is within range. Follow the app's instructions for re-pairing if necessary.
- **Error Codes:** Consult the detailed troubleshooting section in the full instruction manual for specific error code interpretations and solutions.

8. SPECIFICATIONS

Feature	Detail
Model Number	KSPF-005L3R1A2
Heating Capacity	16000 BTU
Recommended Pool Volume	Up to 5400 Gallons
Power Supply	110V/60Hz
Heat Exchanger	Titanium Spiral
Product Dimensions	16.5 x 14.2 x 17.8 inches
Item Weight	59 pounds

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Capability



Fish Breeding

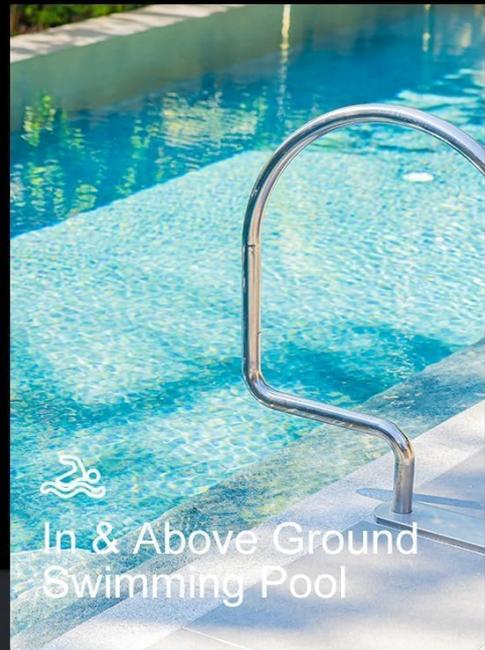


Figure 5: Pool size compatibility chart, indicating recommended volumes and dimensions.

9. WARRANTY & SUPPORT

The VARMINPOOL 16000BTU Smart Inverter Pool Heat Pump comes with a **36-month product protection warranty**. For technical support, warranty claims, or replacement parts, please contact VARMINPOOL customer service. Refer to the product packaging or the official VARMINPOOL website for the most current contact information.