

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [VARMINPOOL](#) /
- › [VARMINPOOL 16000BTU Pool Heat Pump Instruction Manual](#)

VARMINPOOL KSPF-005L3R1A2

# VARMINPOOL 16000BTU Pool Heat Pump Instruction Manual

Model: KSPF-005L3R1A2

Brand: VARMINPOOL

## 1. INTRODUCTION AND OVERVIEW

---

The VARMINPOOL 16000BTU Pool Heat Pump is designed for efficient heating of above-ground pools up to 5,400 gallons or 15 ft in diameter. This unit utilizes advanced inverter technology for smart energy saving and features a built-in WiFi module for convenient remote control via the Smart Life APP.

Key features include:

- **Variable Power:** Adjusts heating performance based on needs.
- **Energy Efficient:** Advanced inverter technology for continuous operation with minimal electricity use.
- **Smart WiFi Control Unit:** Remote operation and monitoring via the Smart Life APP, allowing for scheduled heating.
- **Enhanced Safety Features:** Electrically insulated water heat exchange compartment for secure operation.
- **Durable & Easy Setup:** Galvanized steel housing for year-round outdoor conditions and quick installation.

**VARMINPOOL**

# 16000 BTU Smart Heat Pump



Variable  
Power



Energy  
Efficient



Smart WiFi  
Control Unit



Figure 1: VARMINPOOL 16000BTU Smart Heat Pump highlighting variable power, energy efficiency, and smart WiFi control.

Extend Your  
Swimming  
Seasons  
up to

4+  
Months

With Our  
Heat Pump

From mid-Spring to late-Autumn

8-Month Swimming Time

1 2 3 4 5 6 7 8 9 10 11 12

No Heat Pump

4-Month Swimming Time

Figure 2: The heat pump can extend swimming seasons by over 4 months, from mid-Spring to late-Autumn.

VARMINPOOL

48dB

Extra  
Quietness



Figure 3: The VARMINPOOL heat pump operates at an extra quiet 48dB, comparable to a whisper.

VARMINPOOL

# Capability



 Fish Breeding

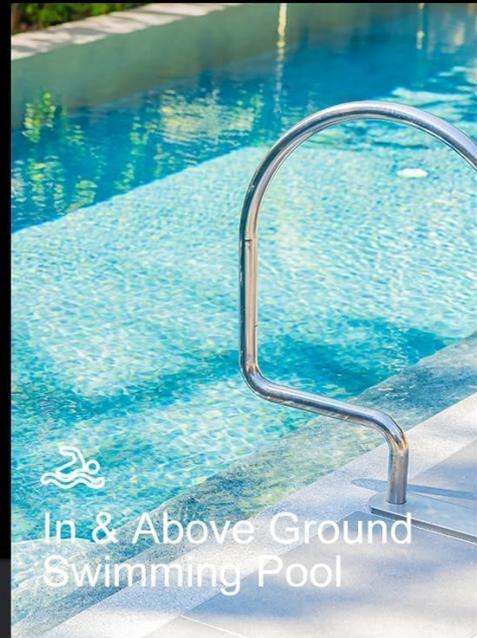


Figure 4: The heat pump is suitable for various applications including spas, fish breeding, and both in-ground and above-ground swimming pools.

## 2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance. This heat pump features an electrically insulated water heat exchange compartment to minimize safety concerns. However, proper electrical installation by a qualified professional is crucial.

- Ensure the power supply is disconnected before any installation or maintenance.
- Verify that the electrical wiring meets local codes and standards.
- Do not operate the unit if any part is damaged or if water is leaking.
- Keep children and pets away from the unit during operation.
- Never attempt to repair the internal components unless you are a qualified technician.

## 3. SETUP AND INSTALLATION

The VARMINPOOL 16000BTU Pool Heat Pump is designed for quick and straightforward installation. Follow these steps for proper setup:

1. **Placement:** Position the heat pump on a stable, level surface with adequate clearance for airflow.
2. **Plumbing Connection:** Connect the heat pump to your pool's filtration system. Water flows from the pool pump, through the filter, then into the heat pump's inlet, and finally returns to the pool from the heat pump's outlet.
3. **Hose Connection:** Use 1.25-inch or 1.5-inch hoses with the provided fittings. Secure connections with hose clamps to prevent leaks.
4. **Electrical Connection:** The unit requires a 110-120V / 60Hz power supply. Ensure proper grounding and use a dedicated circuit with appropriate breaker size (refer to local electrical codes and product specifications).
5. **Initial Startup:** After all connections are secure and verified, turn on the pool pump first to ensure water flow through the heat pump, then power on the heat pump.

## Set Up Guide





X2

Compatible with 1.25" and 1.5" Hose

### Typical Setup

Pool Heat Pump / Heater



Pool Pump

### Filter Pump/Pump Flow Rate Suggestion

1000-1200  
GPH

### Connection with Hose

1.25/1.5" Hose



Hose Clamp

Fitting

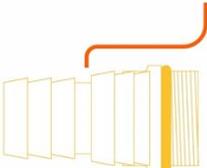


Figure 5: Setup guide illustrating hose compatibility (1.25" and 1.5") and a typical plumbing diagram for the pool heat pump, filter, and pump. Recommended flow rate is 1000-1200 GPH.

[Installation Video](#)

Video 1: Official VARMINPOOL video demonstrating the installation process for the 16000 BTU Smart Pool Heat Pump, including plumbing and electrical connections.

Video 2: Official VARMINPOOL video showcasing the 16000BTU Pool Heat Pump in operation and its features.

## 4. OPERATING INSTRUCTIONS

---

The VARMINPOOL heat pump offers both manual control and smart control via the Smart Life APP.

### Manual Control

The unit features an intuitive control panel with a digital display. Use the up/down arrows to adjust the desired water temperature. The 'M' button allows you to cycle through different modes, and the power button turns the unit on/off.

### Smart APP Control (WiFi)

The built-in WiFi module enables remote operation and monitoring through the Smart Life APP. Download the app from your smartphone's app store.

1. Download and install the Smart Life APP.
2. Register or log in to your account.
3. Add the VARMINPOOL heat pump as a new device following the in-app instructions.
4. Once connected, you can remotely adjust temperature, set heating schedules, and monitor the unit's status from anywhere.

**ARMINPOOL**

# WiFi Control Unit

Effortless monitoring & Control anywhere you Want by smart life APP.

GET IT ON  
Google Play

Available on the  
App Store



Figure 6: The WiFi Control Unit allows effortless monitoring and control of the heat pump via the Smart Life APP on your smartphone.

## Smart Inverter Technology

The advanced inverter technology optimizes energy consumption by adjusting the power output based on the desired temperature and ambient conditions. This ensures efficient heating and maintains your pool at the perfect temperature with reduced energy costs.

ARMINPOOL

# Smart Inverter

Variable Power Control 



Energy

# Saved

Up to

# 40%



Figure 7: The Smart Inverter technology can save up to 40% energy by optimizing power delivery.

ARMINPOOL

## KSPF-5KW 16000BTU

Smart WiFi Control  
Variable Power  
Heat Pump



Recommended Fit

### 135Ft<sup>2</sup>

4000 Gallons

16'



8'



13.5'

16'



10'

If you are not sure about the details of your pool.

Maximum Fit

### 180Ft<sup>2</sup>

5400 Gallons

18'



10'



15'

20'



12'

Figure 8: Power level adjusts from full power for initial heating, to moderate power, and then lowest or stop power output to maintain temperature with minimal energy cost.

# Optimal Working Temperature



# 70°F+

## Average Ambient Temperature

## Autumn/Winter Optimal Working Area

# CA



# TX

# FL

**\*or similar area with moderate ambient temperature.**

Figure 9: The heat pump operates optimally in ambient temperatures of 70°F and above, extending the swimming season in moderate climates.

## 5. MAINTENANCE

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

- **Clean the Coils:** Periodically inspect and clean the evaporator coils to remove debris, leaves, and dirt that can obstruct airflow and reduce efficiency.
- **Check Water Flow:** Ensure consistent and adequate water flow through the unit. Blockages in the filter or plumbing can impair performance.
- **Inspect Connections:** Regularly check all plumbing and electrical connections for leaks or signs of wear.
- **Winterization:** In colder climates, follow proper winterization procedures to protect the unit from freezing temperatures. This typically involves draining the unit and disconnecting it from the plumbing.
- **Housing Inspection:** Inspect the galvanized steel housing for any signs of damage or corrosion.

## 6. TROUBLESHOOTING

---

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

- **Unit Not Turning On:** Check the electrical breaker and ensure the unit is properly plugged in. Verify the control panel or app settings.
- **No Heat/Insufficient Heat:** Confirm the desired temperature setting is higher than the current pool temperature. Check for adequate water flow from the pool pump. Ensure the evaporator coils are clean and not obstructed.
- **Error Codes:** Refer to the specific error codes displayed on the control panel or in the Smart Life APP for detailed explanations and solutions.
- **Unusual Noise:** Inspect the fan for obstructions. If the noise persists, contact customer support.
- **Water Leakage:** Immediately shut off the unit and pool pump. Inspect all plumbing connections for loose fittings or damaged hoses.

For persistent issues, contact VARMINPOOL customer support.

## 7. SPECIFICATIONS

---

Feature	Specification
Model Number	KSPF-005L3R1A2
Heating Capacity	16,000 BTU
Power Supply	110-120V / 60Hz
Product Dimensions (L x W x H)	16.5 x 14.2 x 17.8 inches
Item Weight	59 pounds
Recommended Pool Size	Up to 5,400 gallons or 15 ft diameter
Noise Level	48dB
Control	Manual, WiFi (Smart Life APP)
Heat Exchanger	Titanium

## 8. WARRANTY AND SUPPORT

---

VARMINPOOL is committed to providing high-quality products and excellent customer service.

- **Product Protection:** This product comes with 36 months of product protection.
- **Customer Support:** VARMINPOOL offers consultants for pre-sale and after-sale inquiries.
- **Technical Assistance:** A professional 7/24 support team is available via email, including holidays, to assist with any questions or concerns.



Figure 10: VARMINPOOL provides consultants and a professional 7/24 support team.



Figure 11: The product includes 36 months of product protection.