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## VARMINPOOL KSPF5

# VARMINPOOL 5 Smart Heat Pump (KSPF5) User Manual

Model: KSPF5

## 1. INTRODUCTION

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Thank you for choosing the VARMINPOOL 5 Smart Heat Pump. This manual provides essential information for the safe and efficient operation of your pool heater. Please read it thoroughly before installation and use, and retain it for future reference. This heat pump is designed to efficiently heat above-ground pools up to 6,000 gallons, extending your swimming season.

**VARMINPOOL**



**x5**

*A visual representation demonstrating how the heat pump can extend the swimming season by several months, from mid-spring to late autumn.*

## 2. SAFETY INFORMATION

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Always follow basic safety precautions when installing and operating this electrical equipment. Failure to do so may result in serious injury, death, or property damage.

- Read all instructions before using this product.
- Ensure the heat pump is installed by a qualified professional in accordance with all local and national electrical and plumbing codes.
- Do not operate the heat pump if the power cord or plug is damaged.
- Keep children away from the heat pump and its electrical connections.
- Never attempt to service the unit yourself. Refer all servicing to qualified service personnel.
- Ensure proper grounding to reduce the risk of electric shock.
- Maintain adequate clearance around the unit for proper airflow.

### 3. PRODUCT OVERVIEW

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The VARMINPOOL 5 Smart Heat Pump (KSPF5) is designed for efficient and reliable pool heating. Key features include:

- **Smart Inverter Technology:** Dynamically modulates power between 0-100% to optimize energy consumption, potentially reducing energy costs by up to 40%.
- **High-Performance Heat Exchanger:** Features a titanium-based spiral heat exchanger for superior thermal conductivity and corrosion resistance, suitable for all water types, including saline environments.
- **Weather Protection:** Galvanized steel housing and evaporator protection shield provide resilience against weather-related wear, ensuring optimal operation.
- **Quiet Operation:** Engineered for low noise levels, operating at approximately 48dB.
- **WiFi Control Unit:** Allows for effortless monitoring and control via a smartphone application.

**VARMINPOOL**

**Extend Your  
Swimming  
Seasons  
up to**

**4<sup>+</sup>  
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**

*The VARMINPOOL 5 Smart Heat Pump, a compact and efficient unit designed for heating above-ground pools.*

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# Smart Inverter



Variable Power Control 

Energy

# Saved

Up to

# 40%



*An illustration highlighting the energy efficiency of the smart inverter technology, indicating up to 40% energy savings.*

# 48dB

## Extra Quietness



*A graphic representing the low noise level of the heat pump (48dB), comparing it to common sound environments like whispering or a quiet library.*

## 4. INSTALLATION GUIDE

### 4.1. Placement

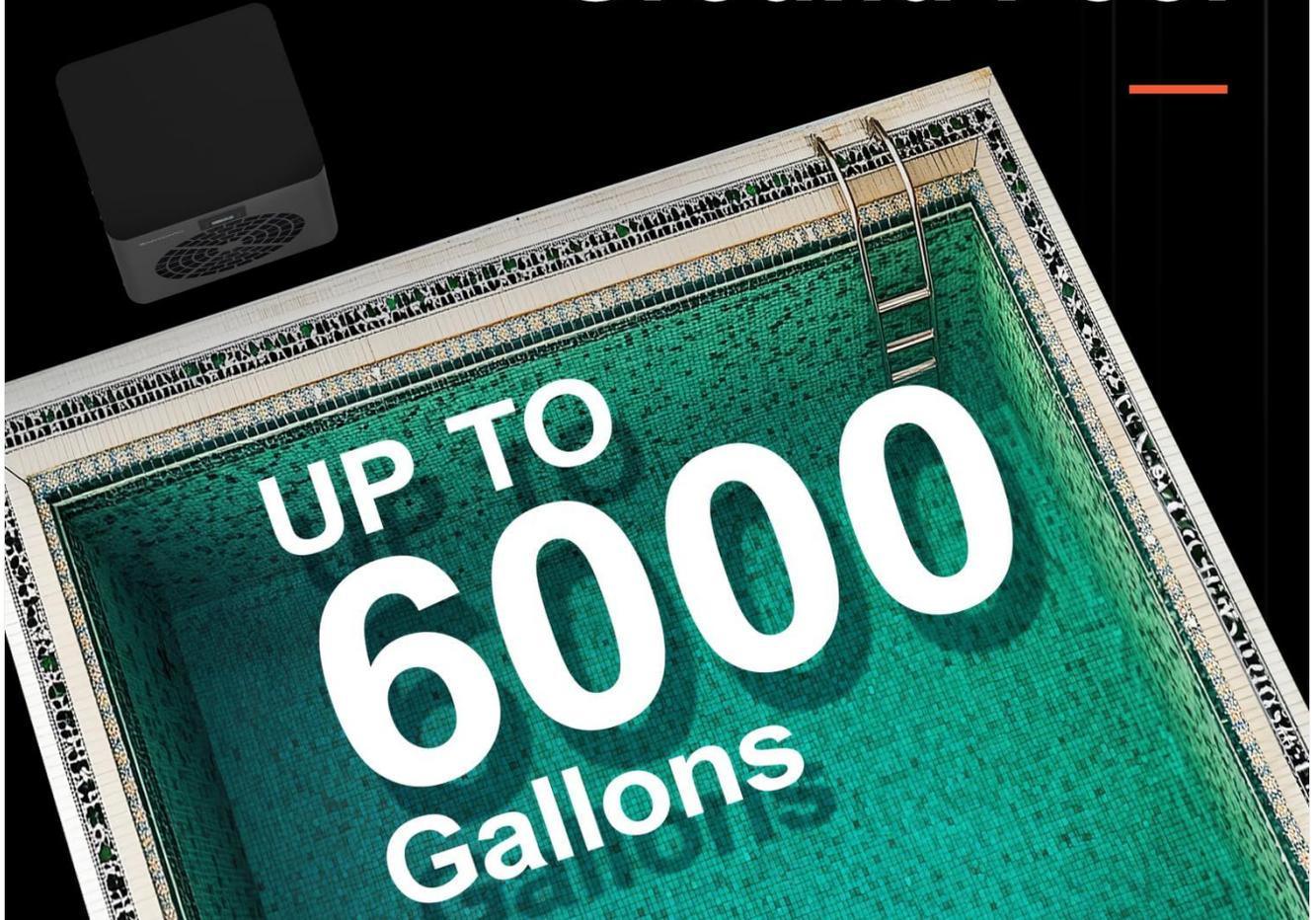
The heat pump should be placed on a solid, level surface outdoors, with adequate clearance for airflow. Avoid enclosed spaces or areas with poor ventilation. Ensure it is easily accessible for maintenance.

### 4.2. Pool Size Compatibility

The KSPF5 heat pump is engineered for above-ground pools up to 6,000 gallons (approximately 16 feet in diameter). Refer to the table below for recommended pool sizes based on surface area and average depth.



# For **IN** and **ABOVE** Ground Pool



An image showing various pool shapes and sizes, indicating compatibility for pools up to 6000 gallons.

## Recommended Pool Size Guide (Gallons)

Surface Area (ft <sup>2</sup> )	Avg. Depth 4.0 ft	Avg. Depth 4.5 ft	Avg. Depth 5.0 ft	Avg. Depth 5.5 ft
120	3600	4050	4500	4950
140	4200	4725	5250	5775
160	4800	5400	6000	6600
180	5400	6075	6750	7425
200	6000	6750	7500	8250
220	6600	7425	8250	9075
240	7200	8100	9000	9900

Note: The heat pump is optimized for working conditions up to 6000 gallons. For larger pools up to 7500 gallons, it may function effectively in moderate climates (average 65°F in spring/autumn).

### 4.3. Plumbing Connections

Connect the heat pump to your pool's filtration system. Water should flow from the pool pump, through the filter, then to the heat pump, and finally back to the pool. Use appropriate plumbing fittings and ensure all connections are watertight.

### 4.4. Electrical Connections

The VARMINPOOL 5 operates on 110-120 V / 60 Hz. Ensure the electrical supply meets these requirements and is protected by a Ground Fault Circuit Interrupter (GFCI). All electrical wiring must comply with local and national codes.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Initial Startup

1. Ensure the pool pump is running and water is flowing through the heat pump.
2. Plug in the heat pump to a properly grounded electrical outlet.
3. The unit will perform a self-check. Once complete, the display will show the current water temperature.

### 5.2. Setting Desired Temperature

- Use the control panel on the unit to adjust the desired water temperature.
- Press the '+' or '-' buttons to increase or decrease the target temperature.
- The heat pump will automatically begin heating until the set temperature is reached.

### 5.3. WiFi App Usage

The VARMINPOOL 5 Smart Heat Pump can be controlled remotely via a smartphone application.

1. Download the 'Smart Life' application from the App Store (iOS) or Google Play Store (Android).
2. Follow the in-app instructions to register an account and add your heat pump device.
3. Once connected, you can monitor the current pool temperature, set the desired temperature, switch modes, and schedule operations from your smartphone.

**VARMINPOOL**

# WiFi Control Unit

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

GET IT ON  
Google Play

Available on the  
App Store



*The heat pump unit alongside a smartphone displaying the WiFi control application, showing temperature settings and operational modes.*



A detailed view of the smartphone application used to monitor and control the heat pump remotely, showing temperature display and settings.

## 6. MAINTENANCE

### 6.1. Regular Cleaning

- Keep the area around the heat pump clear of debris, leaves, and other obstructions to ensure proper airflow.
- Periodically clean the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Inspect the evaporator fins for any blockages and gently clean them if necessary.

### 6.2. Winterization

Before freezing temperatures arrive, it is crucial to properly winterize your heat pump:

1. Turn off the heat pump and disconnect it from the power supply.
2. Drain all water from the heat pump's plumbing to prevent freezing damage.
3. Disconnect the water lines and store them in a dry place.
4. Cover the heat pump with a protective, breathable cover to shield it from harsh winter elements.

## 7. TROUBLESHOOTING

If you encounter issues with your VARMINPOOL 5 Smart Heat Pump, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Heat pump not turning on	No power supply; tripped GFCI; unit off	Check power connection; reset GFCI; ensure unit is switched on.

Problem	Possible Cause	Solution
Insufficient heating	Low ambient temperature; dirty filter; incorrect temperature setting; undersized unit for pool volume	Heat pump efficiency decreases in cold weather; clean pool filter; verify set temperature; ensure unit matches pool size.
Water flow error	Pool pump off; clogged filter; closed valves	Ensure pool pump is running; clean filter; open all necessary valves.
Unusual noise	Debris in fan; loose components	Turn off and inspect fan area for obstructions; contact support if noise persists.
WiFi connection issues	Weak WiFi signal; incorrect app setup	Ensure unit is within WiFi range; re-pair device in the Smart Life app.

For issues not listed here or if problems persist, please contact VARMINPOOL customer support.

## 8. SPECIFICATIONS

Parameter	Value
Product Number	KSPF5
Capacity	16000 BTU
Working Voltage	110-120 V / 60 Hz
Dimensions (L x W x H)	16.5" x 14.2" x 17.8"
Weight	59 lb
Noise Level	Approx. 48 dB
Heat Exchanger Material	Titanium
Housing Material	Galvanized Steel

## 9. WARRANTY AND SUPPORT

VARMINPOOL provides professional customer support to assist you with any questions or concerns regarding your heat pump.

- **Customer Service:** For technical assistance, troubleshooting, or warranty inquiries, please refer to the contact information provided with your product packaging or visit the official VARMINPOOL website.
- **Warranty:** Specific warranty details are provided with your purchase documentation. Please retain your proof of purchase for warranty claims.



*An image detailing VARMINPOOL's customer support, including pre-sale/after-sale consultants and a 7-24 professional support team.*