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**VARMINPOOL KSPF-007L1MR1A1**

# VARMINPOOL 30000 BTU Smart Electric Pool Heater User Manual

Model: KSPF-007L1MR1A1

Brand: VARMINPOOL

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your VARMINPOOL 30000 BTU Smart Electric Pool Heater. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the unit.



## 2. SAFETY INFORMATION

**WARNING: Electrical and plumbing work should only be performed by qualified professionals to prevent injury or damage to the unit. Always disconnect power before servicing.**

- Ensure the unit is properly grounded to prevent electrical shock.
- Do not operate the unit if any part is damaged or if the power cord is frayed.
- Keep children and pets away from the unit during operation.
- The unit includes advanced safety features such as a leakage protection plug, flow-switch, and temperature sensors. Do not bypass or tamper with these safety mechanisms.

## 3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged:

- VARMINPOOL 30000 BTU Smart Electric Pool Heater Unit
- Plumbing Attachments (Unions, Gaskets)
- Condensate Drain Hose
- Power Cable (pre-attached)
- User Manual (this document)

The advertisement features a background image of a swimming pool in a snowy winter setting. The VARMINPOOL logo is in the top left. Large text on the left says "Extend Your Swimming Seasons up to 6+ Months". On the right, it says "Low Ambient Temperature Operation Available Down to 20°F". At the bottom left, a timeline shows "10-Month Swimming Time" from month 2 to 11, with "No Heat Pump" for months 1 and 12, and "4-Month Swimming Time" for months 5-8. A box on the right lists "Heating & Cooling Duo-Mode" with "Heating Range: 46-104°F" and "Cooling Range: 46-86°F".

Figure 2: Overview of the VARMINPOOL Pool Heater and its key features.

## 4. INSTALLATION

While the unit is designed for easy setup, it is recommended to consult with a qualified professional for electrical and complex plumbing connections.

### 4.1. Unit Placement

Place the heat pump on a solid, level surface, such as a concrete pad or a sturdy wooden pallet, ensuring adequate airflow around the unit. Avoid placing it directly on soil or in enclosed spaces.

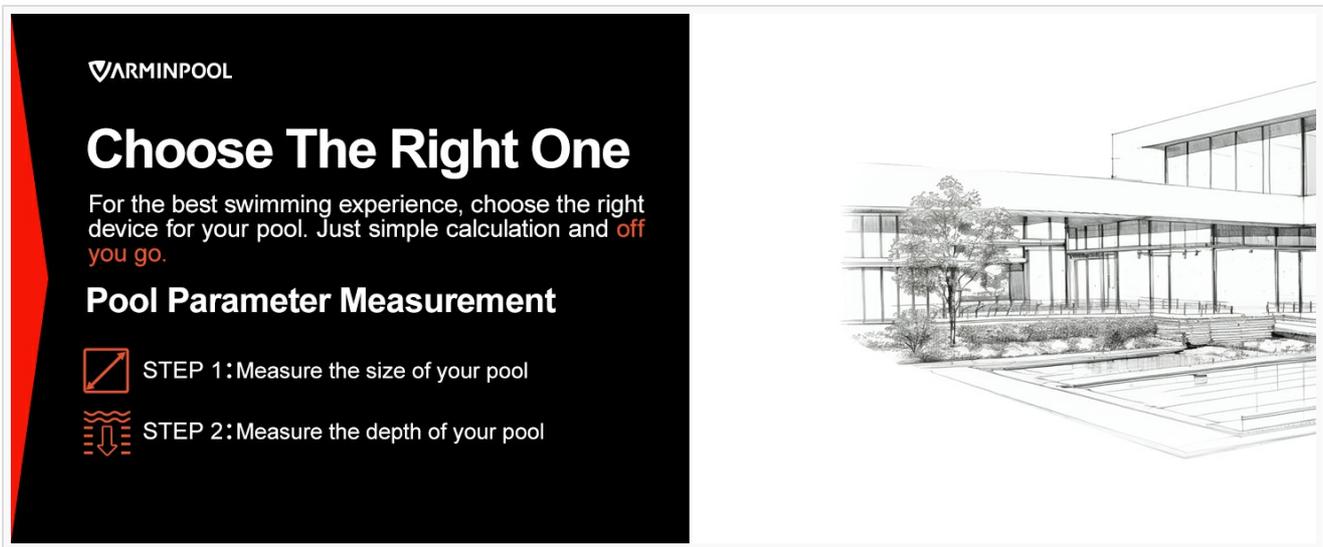


Figure 3: Measuring pool parameters to ensure proper unit sizing and placement.

## 4.2. Plumbing Connections

The heat pump should be installed after the pool filter and before any chlorinators. The unit features convenient water inlet and outlet ports on the back. You may need to cut and adjust existing PVC pipes to align with the new unit's connections. Standard PVC primer and cement are used for secure pipe attachment.

Video 1: Detailed guide on plumbing connections for the VARMINPOOL Heat Pump, including pipe preparation and attachment. This video demonstrates the process of connecting the heat pump to your existing pool plumbing system, showing how to cut and secure pipes for a proper fit.

It is highly recommended to install bypass valves (not included) to allow water to bypass the heater when not in use or during maintenance. This prevents unnecessary water circulation through the unit.

## 4.3. Electrical Connections

The VARMINPOOL 30000 BTU unit operates on 120V and requires a 15-amp breaker. The power cable comes pre-sheathed with terminal connectors for easy and safe installation directly into your breaker box. Ensure the main power to the breaker box is off before making any electrical connections.

Video 2: Step-by-step instructions for electrical wiring of the VARMINPOOL Heat Pump. This video illustrates how to safely connect the unit's power cable to your electrical system, including breaker installation and wire termination.

After all connections are secure, flip the breaker to the ON position to power up the unit.

## 5. OPERATING THE HEAT PUMP

Your VARMINPOOL Smart Electric Pool Heater can be operated directly from its control panel or via the dedicated mobile application.

### 5.1. Control Panel Operation

The unit features a weather-proof control panel with a clear digital display. Use the intuitive buttons to adjust settings such as target temperature. The display shows the current water temperature and other operational data.

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# Capability



 Fish Breeding



 In & Above Ground Swimming Pool

Figure 4: The unit's control panel and mobile app interface for remote control.

## 5.2. WiFi Control via Mobile App

For effortless monitoring and control from anywhere, download the VARMINPOOL Smart Life app from your smartphone's app store. The app allows you to set schedules, adjust temperatures, and monitor the unit's status remotely. You can also share control with other users.



Figure 5: Screenshot of the VARMINPOOL mobile application interface.

The Smart Inverter technology automatically adjusts output to match demand, optimizing energy use and lowering

operating costs. The unit is designed to operate quietly at 48dB.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your heat pump. Keep the area around the unit clear of debris and obstructions to ensure proper airflow. Periodically inspect plumbing and electrical connections for any signs of wear or damage. Refer to the full user manual for detailed cleaning and maintenance schedules.

## 7. TROUBLESHOOTING

The VARMINPOOL Smart Electric Pool Heater features intelligent control with auto-diagnostic capabilities to enhance your pool experience. In case of operational issues, the unit may display error codes or provide notifications via the mobile app. For specific troubleshooting steps and solutions, please refer to the comprehensive troubleshooting section in the full user manual.

## 8. SPECIFICATIONS

Feature	Specification
Heat Capacity	30,000 BTU
Efficiency (C.O.P)	6.0
Power Requirements	110-120 V / 60 Hz
Recommended Pool Size	Up to 8000 gallons or 18 ft diameter
Product Dimensions (L x W x H)	35.51" x 13.88" x 21.98"
Item Weight	90.4 lbs
Heat Exchanger Material	Titanium (Corrosion-resistant)
Noise Level	48dB
Control	WiFi Control APP / On-unit Control Panel

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### STEP 1: Measure the size of your pool

- Rectangle      Length x Width
- Round           $(\text{Diameter}/2)^2 \times 3.14$
- Oval             $(\text{Length} \times \text{width}) / 4 \times 3.14$
- Kidney        Length X (Width 1 + Width 2) X 0.45

\*After the calculation you will have the surface area of your pool.

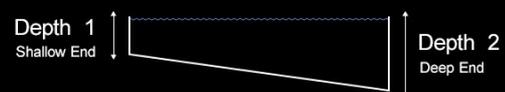


### STEP 2: Measure the depth of your pool

For uni-depth pool



For slope bottom pool



$$\text{Average Depth} = (\text{Depth 1} + \text{Depth 2})/2$$

Figure 6: Detailed pool size guide for optimal heat pump performance.

## 9. WARRANTY AND SUPPORT

Your VARMINPOOL Smart Electric Pool Heater comes with a 36-month product protection. For any inquiries or assistance, VARMINPOOL offers professional 7-24 support via email, including holidays. Consultants are available for both pre-sale and after-sale support.

- **3-Year Protection Plan:** Available for purchase.
- **4-Year Protection Plan:** Available for purchase.
- **Complete Protect:** Monthly plan covering eligible past and future purchases.



Figure 7: VARMINPOOL offers comprehensive customer support.

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### Related Documents - KSPF-007L1MR1A1

	<p><a href="#">VARMINPOOL Variable Speed Pool Pump Installation and Operation Manual</a> Comprehensive installation, operation, and maintenance manual for the VARMINPOOL Variable Speed Pool Pump, covering features, technical specifications, troubleshooting, and safety guidelines.</p>
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