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VARMINPOOL KSPF-010L1UR1A1

VARMINPOOL Electric Pool Heat Pump KSPF-010L1UR1A1 Instruction Manual

Model: KSPF-010L1UR1A1

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your VARMINPOOL Electric Pool Heat Pump, model KSPF-010L1UR1A1. Designed for both in-ground and above-ground pools up to 13,000 gallons, this smart heat pump offers year-round pool comfort with advanced features like WiFi remote control and a titanium heat exchanger. Please read this manual thoroughly before installation and use.

2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance. Failure to follow these instructions may result in property damage, serious injury, or death.

- **Electrical Safety:** Ensure all power to the pool pump and any existing heaters is disconnected at the main breaker before performing any electrical work. Installation should be performed by a qualified electrician in accordance with local and national electrical codes.
- **Water Safety:** Always ensure the pool pump is running when the heat pump is operating to prevent damage from lack of water flow.
- **Placement:** Install the heat pump in a well-ventilated area, ensuring adequate clearance around the unit for proper airflow.
- **Child Safety:** Keep children away from the unit during operation and maintenance.
- The unit is equipped with a multi-sensor system to monitor for overheating, pipeline blockages, and electrical leakage, enhancing safety and protecting your equipment.

3. PRODUCT FEATURES

The VARMINPOOL Electric Pool Heat Pump KSPF-010L1UR1A1 is engineered for superior performance and user convenience:

- **High Capacity:** 40,000 BTU heat capacity, suitable for pools up to 13,000 gallons.
- **All-Season Operation:** Capable of operating in ambient temperatures as low as 15°F, extending your swimming season.

- **Smart Control:** Built-in WiFi module for remote monitoring, setting adjustments, and scheduling via a dedicated smartphone application.
- **Efficient Heat Exchange:** Utilizes a titanium spiral heat exchanger for high heating efficiency, compatible with saltwater and mineral pools.
- **Durable Construction:** Full galvanized steel housing designed to withstand various weather conditions.
- **Quiet Operation:** Operates at an extra quiet 48dB.
- **Dual Mode:** Offers both heating (59-104°F) and cooling (45-86°F) capabilities.



Figure 1: The VARMINPOOL Electric Pool Heat Pump, model KSPF-010L1UR1A1, shown with its sleek dark grey casing and front-facing fan, indicating its compact design and modern aesthetic. A smartphone displaying the WiFi control app is overlaid, highlighting its smart control capabilities.

For Pools Up to

13000 Gallons

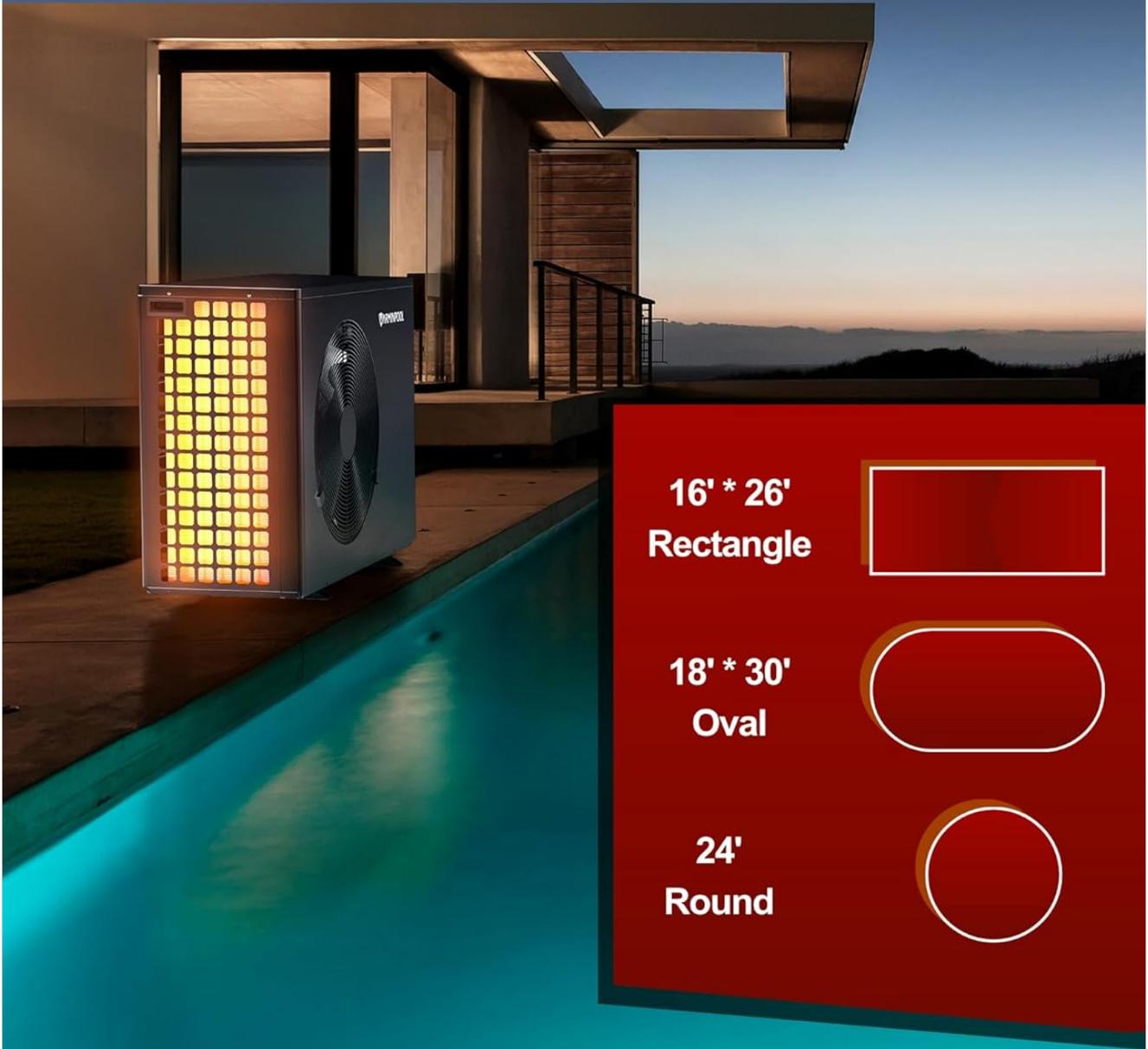


Figure 2: An image illustrating the VARMINPOOL heat pump positioned beside a swimming pool at dusk, with text overlays indicating its suitability for pools up to 13,000 gallons, including rectangular (16'x26'), oval (18'x30'), and round (24') pool shapes.

365 Pool
Enjoyment

40000 BTU



WiFi Remote Control



Heat & Cool Duo Mode



Low Ambient Temperature Operates Capable

Figure 3: The VARMINPOOL heat pump shown in a snowy, mountainous setting, emphasizing its capability to operate in ambient temperatures as low as 15°F, allowing for extended pool use in colder climates.

VARMINPOOL

48dB
**Extra
Quietness**

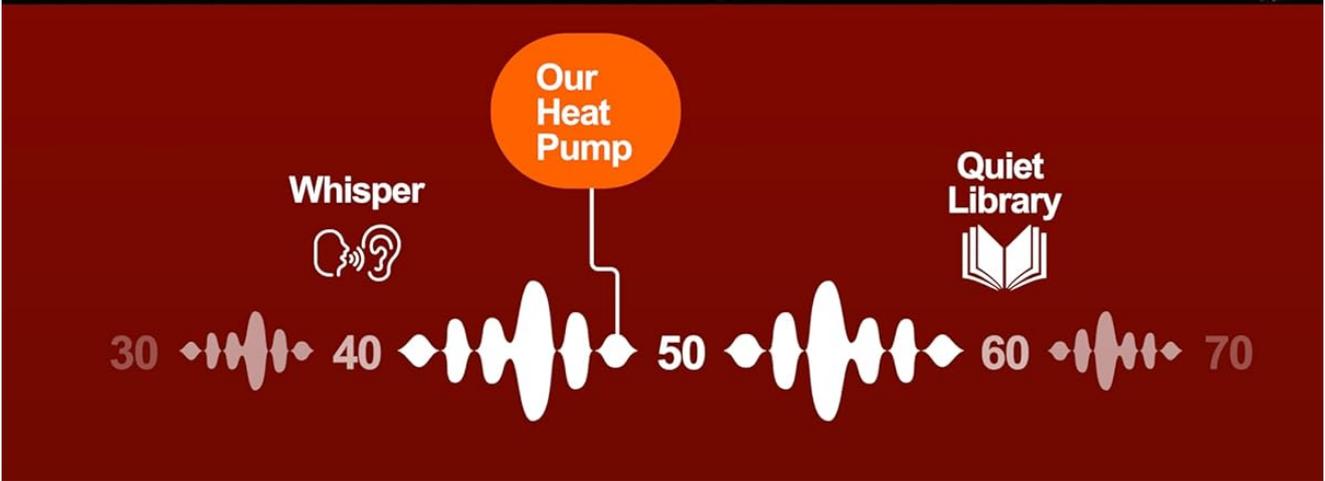
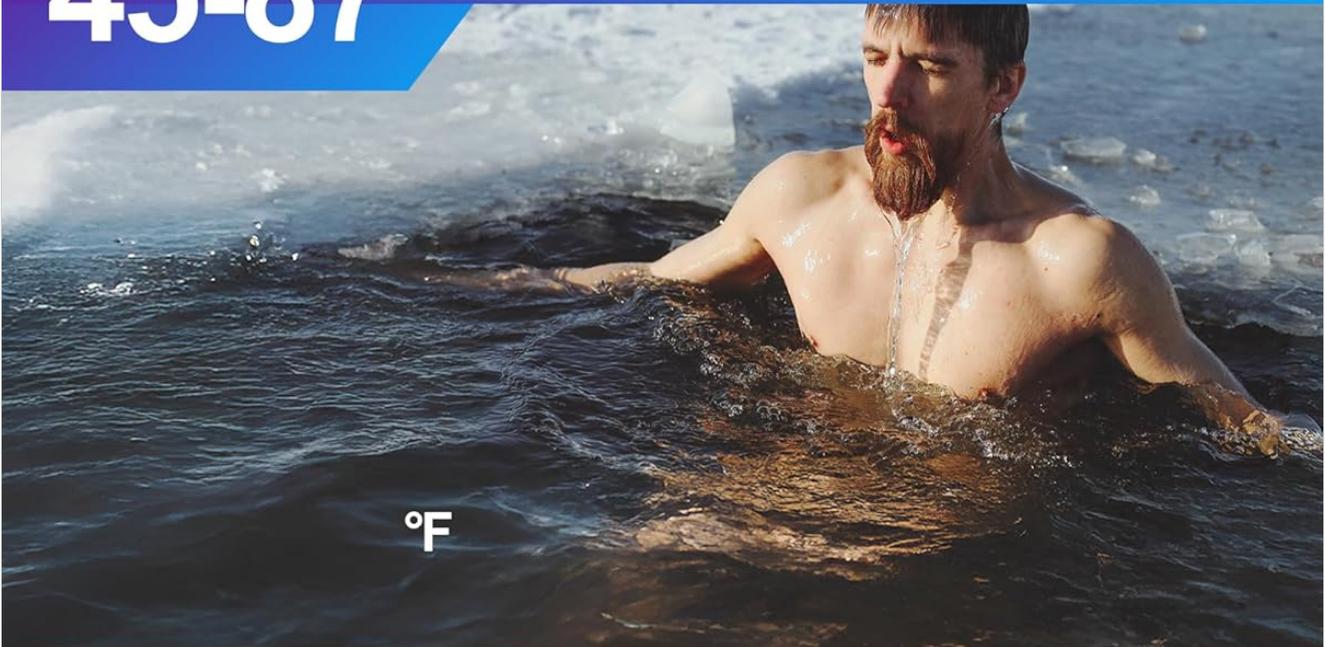


Figure 4: The VARMINPOOL heat pump depicted against a city skyline at night, with a graphic indicating its extra quiet operation at 48dB, comparing its sound level to a whisper.

Cooling Mode

45-87 °F

Cold Plunge



°F

Spa Tub

Heating
Mode

59-104 °F



Figure 5: An image demonstrating the dual heating and cooling capabilities of the VARMINPOOL heat pump, with a man in a cold plunge (cooling mode 45-87°F) and a spa tub (heating mode 59-104°F).

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your heat pump. It is recommended to consult a professional for installation.

4.1. Electrical Connection

1. **Disconnect Power:** Before starting, turn off the main power to your pool pump and any existing pool heaters at the

circuit breaker. Verify power is off using a voltage tester.

2. **Breaker Requirements:** The VARMINPOOL KSPF-010L1UR1A1 requires a 15-amp breaker (220-240V / 60Hz). If replacing an older, higher-amperage unit (e.g., 60-amp), downgrade the breaker to 15-amp to protect the new heat pump from electrical surges.
3. **Wiring:** The heat pump comes with pre-sheathed wiring. Connect the two hot wires and the ground wire to the appropriate terminals in your electrical disconnect box.

4.2. Plumbing Connection

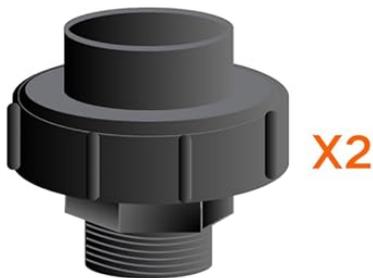
1. **Drain Condensate:** Attach the provided condensate drain line to the bottom of the unit.
2. **Positioning:** Place the heat pump on a stable, level surface, ensuring the water inlet and outlet ports are accessible for plumbing. The inlet and outlet ports are conveniently located on the back of the unit.
3. **Pipe Preparation:** Cut and prepare your existing PVC pipes to align with the heat pump's 2-inch inlet and outlet ports. Use standard primer and plumbing cement for secure connections.
4. **Connection:** The heat pump includes easy-to-use attachments that twist on and off for quick connection to your PVC pipes or hoses.
5. **Bypass Valves (Recommended):** For optimal control and maintenance, it is highly recommended to install three bypass valves. These valves allow you to direct water through the heat pump, bypass it, or isolate the heat pump for service without affecting pool circulation.

Connection

VARMINPOOL

2"

Exact Diameter: 49mm



1.5" Male Thread

For screw connections with the inlet and outlet of the Pool Heat Pump

Typical Setup

Pool Heat Pump / Heater

Cartridge Filter



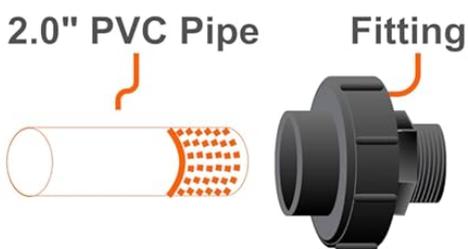
To Pool Inlet

From Pool Main Drain



Pool Pump

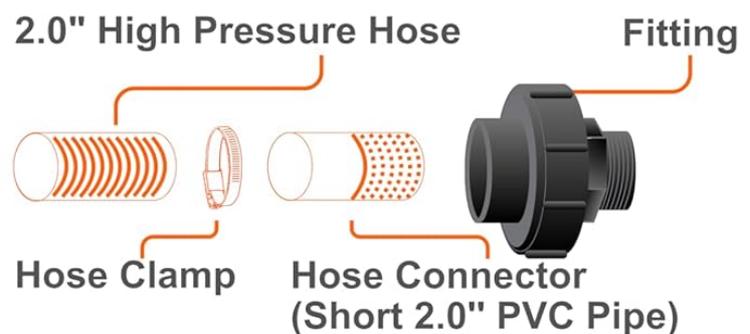
Connection with PVC Pipe



2.0" PVC Pipe

Fitting

Connection with Hose



2.0" High Pressure Hose

Fitting

Hose Clamp

Hose Connector
(Short 2.0" PVC Pipe)

Notice: PVC glue should be applied at inserted part.

Figure 6: A detailed diagram illustrating the typical setup for connecting the VARMINPOOL heat pump to a pool's filtration system, showing the flow from the pool pump, through the filter, to the heat pump, and back to the pool inlet. It also shows 2-inch male thread adapters for PVC pipe or hose connections.

4.3. Installation Video Guide

Video 1: This video provides a step-by-step guide on how to install the VARMINPOOL pool heat pump, including removal of an old unit, electrical connections, and plumbing setup. It also covers the initial setup of the WiFi control app.

5. OPERATING INSTRUCTIONS

Your VARMINPOOL heat pump can be operated via its integrated control panel or the Smart Life mobile application.

5.1. Control Panel

The unit features a weather-proof control panel with a clear digital display. Use the 'M' button to cycle through modes, and the up/down arrows to adjust the desired temperature. The display shows the current water temperature and other operational information.

5.2. WiFi App Control

For enhanced convenience, download the 'Smart Life' app from the Google Play Store or Apple App Store. The app allows you to:

- Monitor current pool temperature.
- Adjust heating or cooling setpoints (59-104°F for heating, 45-86°F for cooling).
- Set schedules for automatic operation on specific days and times.
- Share control of the heat pump with other users.
- Receive notifications and alerts.

Important: The heat pump should only be operated when your pool pump is actively circulating water.

VARMINPOOL

WiFi Control Unit

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

GET IT ON
Google Play

Available on the
App Store



Schedule Auto Heating & Cooling

Figure 7: A visual representation of the VARMINPOOL heat pump's WiFi control unit, featuring a smartphone screen showing the 'Smart Life' app interface for effortless monitoring and temperature adjustments. Icons for Google Play and App Store are visible, indicating app availability.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your heat pump.

- **Keep Clear:** Ensure the area around the heat pump is free from debris, leaves, and other obstructions to maintain proper airflow.

- **Clean Coils:** Periodically inspect and gently clean the evaporator coils to remove any dirt buildup that could impede efficiency.
- **Check Connections:** Regularly inspect all electrical and plumbing connections for any signs of wear, leaks, or corrosion.
- **Winterization:** In regions with freezing temperatures, follow proper winterization procedures to protect the unit from ice damage.

7. TROUBLESHOOTING

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

- **No Power:** Check the circuit breaker and ensure it is in the 'ON' position. Verify all electrical connections are secure.
- **No Heat/Cooling:** Ensure the pool pump is running and water is flowing through the unit. Check the set temperature on the control panel or app to ensure it is within the desired range.
- **Error Codes:** Refer to the specific error code displayed on the control panel and consult the troubleshooting section of the full user manual or contact customer support.
- **WiFi Connectivity:** Ensure your home WiFi network is active and the heat pump is within range. Follow the app's instructions for re-pairing if necessary.

For persistent issues, please contact VARMINPOOL customer support.

8. SPECIFICATIONS

Specification	Detail
Model Number	KSPF-010L1UR1A1
Heat Capacity	40,000 BTU
Recommended Pool Size	Up to 13,000 Gallons
Voltage	220-240V / 60Hz
Operating Temperature (Ambient)	As low as 15°F
Heating Range	59-104°F
Cooling Range	45-86°F
Dimensions (L x W x H)	35" x 14" x 22"
Item Weight	111 lb
Noise Level	48dB
Heat Exchanger Material	Titanium
Housing Material	Galvanized Steel

9. 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:** Our professional 7-24 support team is available via email, including holidays, to assist with any

questions or concerns. Consultants are also available for pre- and post-sale inquiries.



Figure 8: A graphic highlighting the 36-month product protection offered by VARMINPOOL, emphasizing reliability and customer assurance.



Figure 9: Icons representing VARMINPOOL's customer support, including consultants for pre- and post-sale inquiries, and a professional 7-24 support team available via email, including holidays.