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VARMINPOOL KSPF-010L1UR1A1

VARMINPOOL 40000BTU Pool Heat Pump User Manual

Model: KSPF-010L1UR1A1

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your VARMINPOOL 40000BTU Pool Heat Pump. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the unit. Retain this manual for future reference.



Figure 1: VARMINPOOL 40000BTU Pool Heat Pump

2. SAFETY INFORMATION

Observe all safety precautions to reduce the risk of injury, electric shock, fire, or damage to the product. This unit operates on 220-240V AC power and requires professional installation.

- **Electrical Safety:** Ensure the unit is connected to a properly grounded 220-240V / 60Hz power supply by a qualified electrician. Do not operate with damaged cords or plugs.
- **Water Safety:** Do not operate the heat pump if water is present in the electrical components. Ensure all plumbing connections are secure to prevent leaks.
- **Placement:** Position the unit on a stable, level surface with adequate clearance for airflow. Avoid placing near flammable materials.
- **Children and Pets:** Keep children and pets away from the unit during operation.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Professional Installation:** Installation should be performed by a certified pool professional to ensure compliance with local codes and safety standards.

3. PRODUCT OVERVIEW

The VARMINPOOL 40000BTU Pool Heat Pump is designed to efficiently heat and cool pools up to 13,000 gallons, extending your swimming season. It features smart inverter technology and WiFi control for convenient management.

Key Features:

- **Heat Capacity:** 40,000 BTU, suitable for pools up to 13,000 gallons.
- **Smart Inverter Technology:** Optimizes energy consumption for cost-effective temperature maintenance.
- **WiFi Control:** Remote monitoring and adjustment via a dedicated smartphone application.
- **Low Temperature Operation:** Functions reliably in ambient temperatures as low as 15°F.
- **Titanium Heat Exchanger:** Durable and efficient, compatible with saltwater and mineral pools.
- **Galvanized Steel Housing:** Provides enhanced durability and weather resistance.
- **Advanced Safety Features:** Multi-sensor design prevents overheating, pipeline blockages, and electrical leakage.

40000 BTU Smart Heat Pump



WiFi Remote Control



Heat & Cool Duo Mode



Low Ambient Temperature Operates Capable

Figure 2: Key Features of the 40000 BTU Smart Heat Pump

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your heat pump. It is recommended that installation be performed by a qualified pool professional.

4.1 Placement

- Install the unit outdoors in a well-ventilated area, away from direct sunlight and heat sources.

- Ensure adequate clearance around the unit for proper airflow (refer to specific dimensions in the specifications section).
- Place the unit on a solid, level foundation capable of supporting its weight (approximately 134 lbs).

4.2 Electrical Connection

- The heat pump requires a dedicated 220-240V / 60Hz electrical circuit.
- All electrical wiring must comply with local and national electrical codes.
- A qualified electrician must perform the electrical hookup.

4.3 Plumbing Connection

The heat pump should be installed after the pool filter and before any chemical feeders. The unit includes two 2-inch fittings with 1.5-inch male threads for connection.

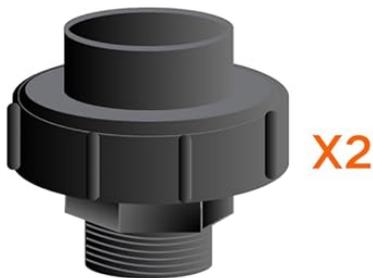
- Connect the heat pump to your pool's circulation system using either PVC pipes or high-pressure hoses.
- Ensure all connections are watertight. For PVC pipe connections, apply PVC glue to the inserted parts.
- A suggested flow rate of 25-30 GPM (Gallons Per Minute) is recommended for optimal operation. Consider installing a flow meter and valve to adjust the flow rate if necessary.

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



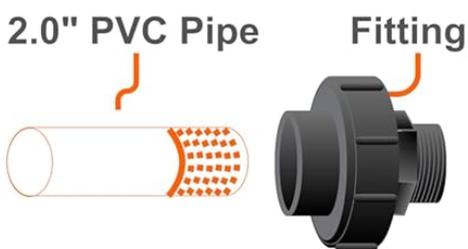
To Pool Inlet

From Pool Main Drain

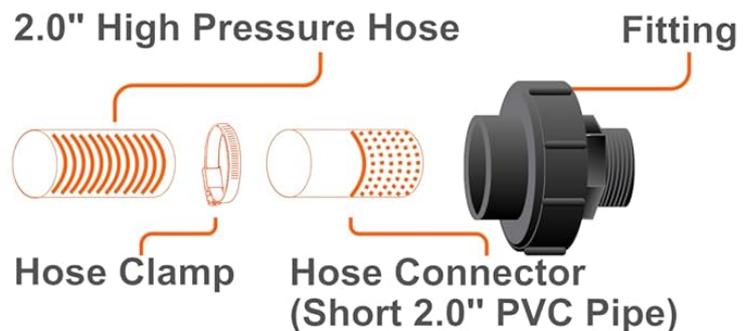


Pool Pump

Connection with PVC Pipe



Connection with Hose



Notice: PVC glue should be applied at inserted part.

Figure 3: Typical Plumbing Connection Diagram

5. OPERATION

Your VARMINPOOL heat pump offers both heating and cooling modes, controllable via the unit's interface or the dedicated WiFi app.

5.1 Powering On/Off

- Ensure all electrical and plumbing connections are secure before powering on.

- Turn on the main power switch to the unit. The display panel will illuminate.
- To turn off, press the power button on the unit or via the app, then disconnect the main power supply for extended periods of non-use.

5.2 Temperature Settings

- **Heating Mode:** The unit can heat your pool water within a range of 59°F to 104°F (15°C to 40°C).
- **Cooling Mode:** The unit can cool your pool water within a range of 45°F to 87°F (7°C to 30.5°C).
- Adjust the desired temperature using the control panel on the unit or through the WiFi control application.

5.3 WiFi Control Application

The integrated WiFi module allows for remote monitoring and control of your heat pump.

- Download the 'Smart Life' app from Google Play or the App Store.
- Follow the in-app instructions to connect your heat pump to your home WiFi network.
- Through the app, you can monitor current pool temperature, adjust settings, switch between heating and cooling modes, and schedule automatic operation.

VARMINPOOL

WiFi Control Unit

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

GET IT ON
Google Play

Available on the
App Store



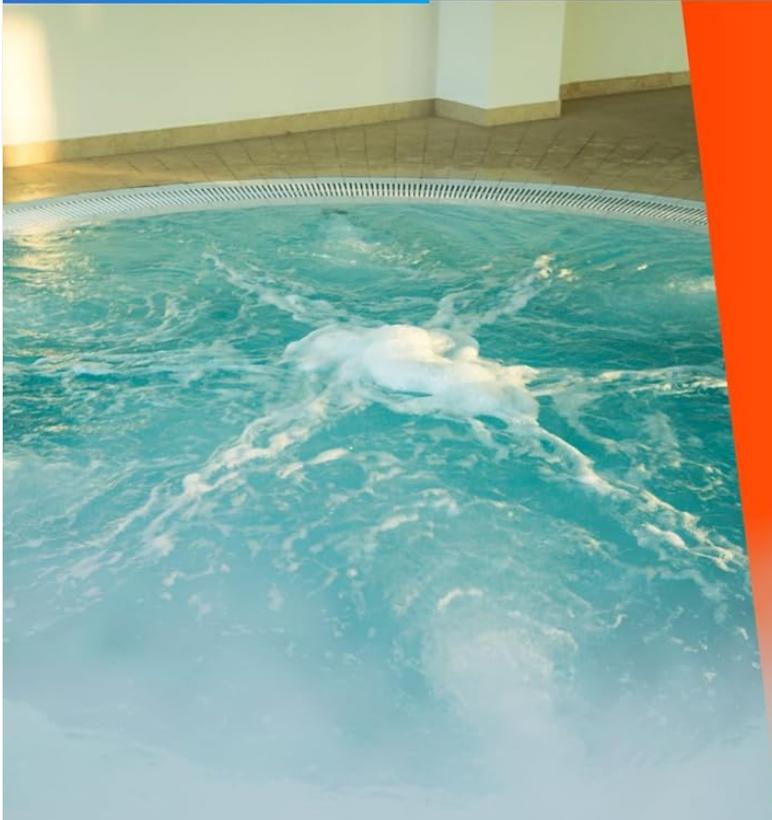
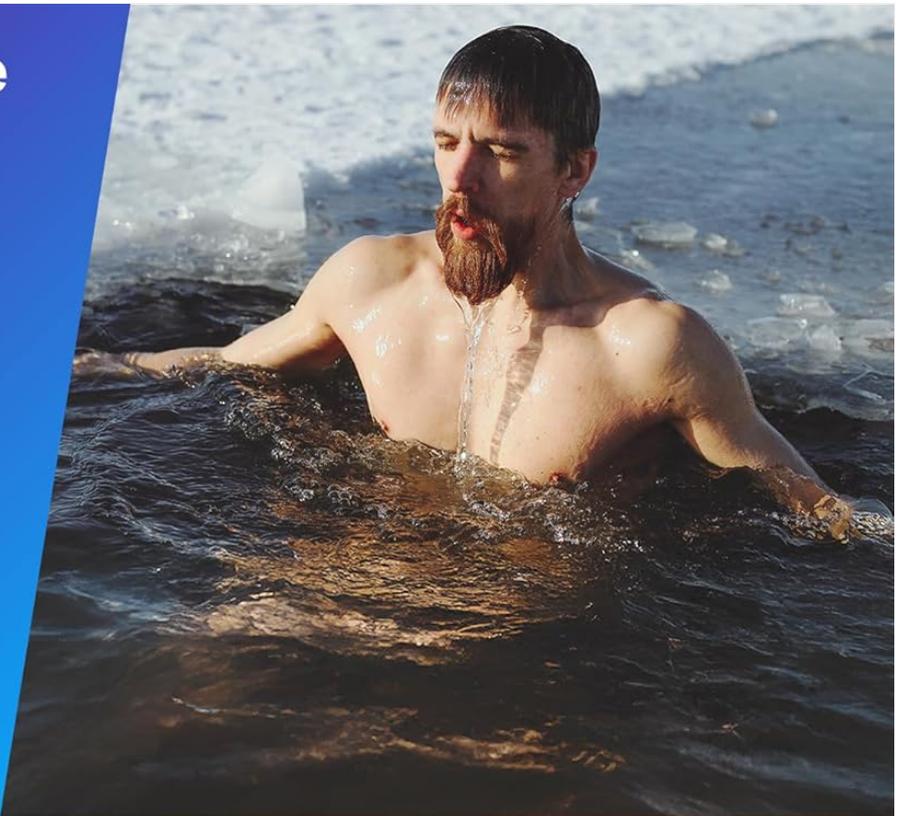
Schedule Auto
Heating & Cooling

Figure 4: WiFi Control Unit and Smartphone App

Cooling Mode

45-87°F

Cold Plunge



Heating Mode

59-104°F

Spa Tub

Figure 5: Cooling and Heating Temperature Ranges

6. MAINTENANCE

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

- **Clean the Exterior:** Periodically wipe down the unit's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Clear Airflow:** Ensure the area around the heat pump is free from debris, leaves, and other obstructions to maintain proper airflow.

- **Check Plumbing:** Regularly inspect all plumbing connections for leaks and ensure they are secure.
- **Winterization:** If operating in regions with freezing temperatures, follow proper winterization procedures to protect the unit from ice damage. This typically involves draining water from the system and covering the unit. Consult a pool professional for specific guidance.
- **Titanium Heat Exchanger:** The titanium heat exchanger is corrosion-resistant and requires minimal maintenance. Ensure proper pool water chemistry to prevent scale buildup.

7. TROUBLESHOOTING

If you encounter issues with your heat pump, refer to the following common troubleshooting steps. For complex problems, contact customer support.

Problem	Possible Cause	Solution
Unit not turning on	No power, tripped breaker, loose connection	Check power supply, reset breaker, ensure connections are secure.
Pool not heating/cooling	Incorrect temperature setting, low water flow, dirty filter, ambient temperature too low/high	Verify settings, check pool pump and filter, ensure adequate water flow (25-30 GPM). Consider a pool cover for efficiency.
Unusual noise	Debris in fan, loose components, compressor issue	Inspect fan for obstructions. If noise persists, contact support.
WiFi connection issues	Weak signal, incorrect password, app error	Ensure strong WiFi signal, re-enter password, restart app/unit.

8. SPECIFICATIONS

Feature	Detail
Brand	VARMINPOOL
Model Number	KSPF-010L1UR1A1
Heat Capacity	40,000 BTU
Recommended Pool Size	Up to 13,000 Gallons (In-ground and Above-ground)
Voltage	220-240V / 60Hz
Product Dimensions (L x W x H)	35" x 14" x 22"
Item Weight	134 lbs
Operating Ambient Temperature	As low as 15°F
Heating Temperature Range	59-104°F (15-40°C)
Cooling Temperature Range	45-87°F (7-30.5°C)

Feature	Detail
Heat Exchanger Material	Titanium Spiral
Housing Material	Galvanized Steel
Connectivity	Integrated WiFi Module

9. WARRANTY AND SUPPORT

VARMINPOOL is committed to providing reliable products and customer satisfaction.

9.1 Product Protection

Your VARMINPOOL Pool Heat Pump is covered by a **36-month product protection plan** from the date of purchase. This warranty covers manufacturing defects and ensures peace of mind.



Figure 6: 36 Months Product Protection

9.2 Customer Support

For any inquiries, technical assistance, or warranty claims, please contact our support team:

- **Consultants:** Available for pre-sale and after-sale inquiries.
- **Professional Support Team:** 7-day, 24-hour email service, including holidays.



Consultants



7-24 Support Team

Installation & Operation Manual

VARIABLE SPEED POOL PUMP

VARMINPOOL



[VARMINPOOL Variable Speed Pool Pump Installation and Operation Manual](#)

Comprehensive installation, operation, and maintenance manual for the VARMINPOOL Variable Speed Pool Pump, covering features, technical specifications, troubleshooting, and safety guidelines.