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## Varpoolfaye KSPF-010L1UR1A2

# Varpoolfaye KSPF-010L1UR1A2 Pool Heat Pump Instruction Manual

Model: KSPF-010L1UR1A2

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your Varpoolfaye KSPF-010L1UR1A2 Pool Heat Pump. This dual-mode heat pump is designed to maintain optimal water temperatures for both above-ground and in-ground pools up to 10,000 gallons, offering both heating and cooling capabilities. Please read this manual thoroughly before installation and use, and retain it for future reference.

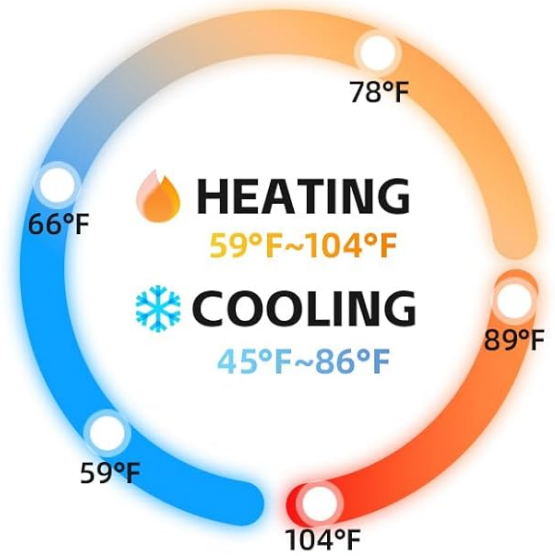


Image: The Varpoolfaye Pool Heat Pump unit shown alongside a smartphone displaying its app control interface, indicating heating and cooling temperature ranges (59°F-104°F for heating, 45°F-86°F for cooling).

## 2. SAFETY INFORMATION

Always adhere to local electrical and plumbing codes during installation. Improper installation or operation can lead to serious injury or property damage. Ensure the unit is properly grounded. Do not operate the unit if any part is damaged. Keep children and pets away from the unit during operation. Disconnect power before performing any maintenance or service.

- **Electrical Safety:** This unit operates on 220V 60Hz. Ensure proper wiring and circuit protection.
- **Water Connections:** Ensure all water connections are secure to prevent leaks.
- **Ventilation:** Do not obstruct the airflow around the heat pump. Maintain adequate clearance as specified in the installation section.
- **Professional Installation:** For electrical and plumbing connections, it is recommended to consult a qualified professional.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- Varpoolfaye KSPF-010L1UR1A2 Pool Heat Pump Unit

- 1.5" Adapter × 2
- Water Draining Hose × 1
- Rubber Shock Absorption Pad × 4
- Condensate Drain Fitting × 1
- User Manual (this document)

## 4. SPECIFICATIONS

Feature	Specification
Model Number	KSPF-010L1UR1A2
BTU Output	35,100 BTU
Power Supply	220V 60Hz
Heating Temperature Range	59°F to 104°F
Cooling Temperature Range	45°F to 86°F
Maximum Pool Capacity	Up to 10,000 Gallons
Coefficient of Performance (COP)	6.5
Noise Level	53 dB
Product Dimensions	33.3 x 14.5 x 27.9 inches
Item Weight	116 pounds

# YEAR-ROUND COMFORT



Image: The Varpoolfaye Pool Heat Pump unit highlighting its 35,100 BTU output and suitability for pools up to 10,000 gallons, emphasizing year-round comfort.

## 5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your heat pump. Refer to the included installation kit for necessary components.

### 5.1 Site Selection

- Choose a location with adequate airflow, away from obstructions.
- Ensure the ground is level and stable enough to support the unit's weight.
- Position the unit to allow for easy access for maintenance.

### 5.2 Water Connections

The heat pump should be installed after the filter and before any chlorinator or chemical feeder in the pool's circulation system. Use the provided 1.5" adapters for secure connections.

# INSTALLATION

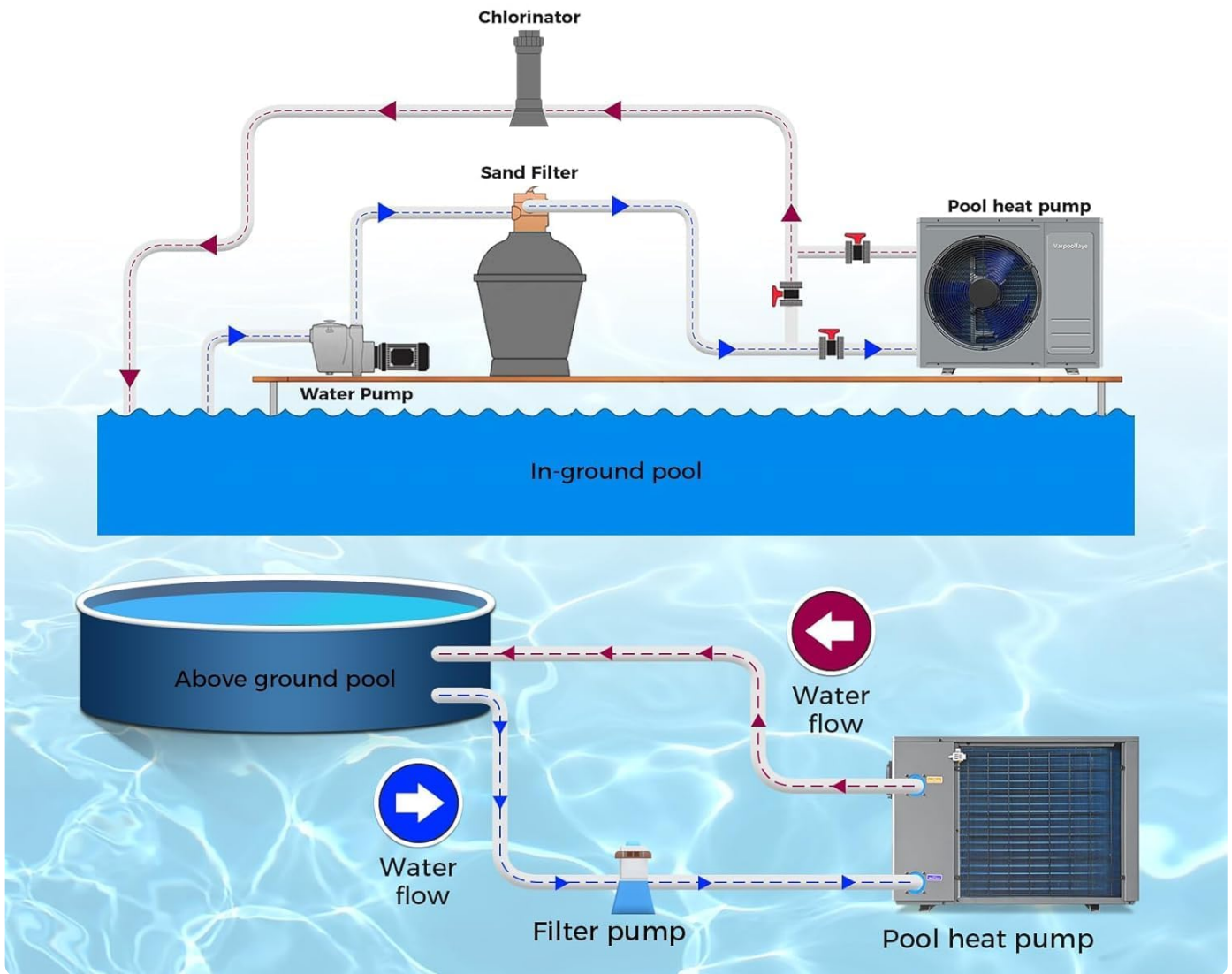


Image: A detailed diagram illustrating the water flow and connection points for installing the pool heat pump in both in-ground and above-ground pool systems, showing connections to the water pump, filter, and chlorinator.

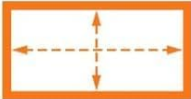



## 5.3 Electrical Connections

This unit requires a 220V 60Hz power supply. All electrical wiring must be performed by a qualified electrician in accordance with local codes. Ensure a dedicated circuit with appropriate overcurrent protection is used.

## 5.4 Pool Size Compatibility

Refer to the selection guide below to ensure your pool size and type are compatible with this 35,100 BTU heat pump for optimal performance.

# 35100 BTU Heat Pump Selection Guide

	Pool Size(ft)	Max pool depth	Gallons	Required at this ambient fahrenheit
<b>Rectangular Pool</b>  <b>Oval Pool</b>  <b>Kidney Pool</b> 	16' x 32'	<b>2.62 ft</b>	≤ 10000	72°F
	14' x 28'		≤ 8000	67-72°F
	13' x 26'		≤ 7000	62-72°F
	12' x 24'		≤ 6000	52-72°F
	11' x 22'		≤ 5000	47-72°F
	10' x 20'		≤ 4000	47-72°F
	8' x 16'		≤ 3000	42-72°F
	7' x 14'		≤ 2000	37-72°F
	5' x 10'		≤ 1000	37-72°F
<b>Round Pool</b> 	Pool Size(ft)	<b>2.62 ft</b>	Gallons	Required at this ambient fahrenheit
	26'		≤ 10000	72°F
	23'		≤ 8000	67-72°F
	22'		≤ 7000	62-72°F
	21'		≤ 6000	52-72°F
	18'		≤ 5000	47-72°F
	16'		≤ 4000	47-72°F
	14'		≤ 3000	42-72°F
	11'		≤ 2000	37-72°F
8'	≤ 1000	37-72°F		

**It is recommended to add a pool cover to prevent heat loss and speed up the heating process.**

Image: A table titled "35100 BTU Heat Pump Selection Guide" detailing recommended pool sizes (rectangular, oval, kidney, round) by length, width, max depth, gallons, and required ambient temperature for effective heating.

## 6. OPERATING INSTRUCTIONS

Your Varpoolfaye heat pump offers flexible control options for heating and cooling your pool.

### 6.1 Initial Startup

- Ensure the pool pump is running and water is flowing through the heat pump.
- Turn on the power to the heat pump. The unit will perform a self-check.
- Select your desired operating mode (heating or cooling) and set the target temperature.

### 6.2 WiFi Control via App

The heat pump can be controlled remotely using a dedicated smartphone application. Download the "Smart Life" app from your device's app store.

1. Connect your heat pump to your home WiFi network following the app's instructions.
2. Use the app to remotely adjust temperature settings, switch between heating and cooling modes, and monitor the unit's status.
3. Create personalized heating and cooling schedules to optimize energy usage and ensure your pool is ready when you are.



Image: The Varpoolfaye Pool Heat Pump unit next to a smartphone displaying the control app, illustrating how to adjust temperature and set smart schedules for operation.

### 6.3 Manual Control Panel

The unit also features a waterproof control panel for direct adjustments.

- Use the buttons on the control panel to power on/off, select mode, and adjust the target temperature.
- The digital display will show the current water temperature and set temperature.



Image: A close-up of the Varpoolfaye Pool Heat Pump's waterproof control panel, showing a hand interacting with the buttons to adjust settings.

## 7. MAINTENANCE

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

- **Coil Cleaning:** Periodically inspect and clean the evaporator coils to remove debris, leaves, and dirt. A clean coil ensures efficient heat exchange.
- **Condensate Drainage:** Ensure the condensate drain fitting and hose are clear and free-flowing. The unit produces condensation during operation.
- **Winterization:** In colder climates, proper winterization is essential. Consult a pool professional for specific instructions on draining and protecting your heat pump during freezing temperatures.
- **Smart-Defrost Function:** The unit features an automatic smart-defrost system that activates to clear ice buildup on the coils, ensuring continuous operation even in cold conditions.

## 8. TROUBLESHOOTING

Before contacting support, review these common issues and solutions.

Problem	Possible Cause	Solution
Unit not turning on	No power, tripped breaker, loose wiring	Check power supply, reset breaker, ensure secure electrical connections.
Pool not reaching desired temperature	Incorrect temperature setting, dirty coils, insufficient run time, pool size exceeds capacity, low ambient temperature, no pool cover	Verify settings, clean coils, allow more run time, ensure pool size is within specifications, use a pool cover to reduce heat loss.
Unit displaying error codes	Internal fault, sensor issue, freezing coils	Refer to the app or control panel for specific code meanings. If freezing coils are indicated, ensure proper water flow and ambient temperature. Contact support if the issue persists.
Excessive condensation around unit	Normal operation, blocked drain hose	Condensation is a normal byproduct of heat pump operation. Ensure the condensate drain hose is clear and properly routed away from the unit.
Unit is noisy	Fan obstruction, loose components, normal operating sound	Check for obstructions around the fan. Ensure the unit is on a stable, level surface. The unit operates at a quiet 53 dB, but any unusual noises should be investigated.

## 9. WARRANTY AND SUPPORT

Varpoolfaye stands behind its products with comprehensive customer support.

- **Return Policy:** This product is eligible for a 30-day easy return policy.
- **Protection Plans:** Extended protection plans, such as a 2-Year Protection Plan, may be available for purchase.
- **Customer Support:** For any questions regarding product selection, installation, operation, or warranty claims, please contact Varpoolfaye customer support. They are committed to providing detailed guidance and ensuring your satisfaction.