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KL KEY LANDER 48WUA1001C-II

KL KEY LANDER LX 48WUA Spa Pump

Model 48WUA1001C-II Instruction Manual

Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your KL KEY LANDER LX 48WUA Spa Pump, Model 48WUA1001C-II. Please read these instructions thoroughly before installation and use to ensure proper function and longevity of the product.

Important Safety Information

WARNING: To reduce the risk of electrical shock, injury, or damage, adhere to the following guidelines:

- **Electrical Grounding:** The motor must be grounded in accordance with all local and national electrical codes. Improper grounding can lead to severe electrical shock.
- **Application:** Do not use this pump with storable pools. This pump is designed for permanent installation.
- **Indoor Use:** This product is intended for indoor use only.
- **Dry Operation:** To prevent electrical shock or injury, and to avoid pump damage,**do not run the pump dry**. Ensure the pump is fully primed with water before operation.
- **Professional Installation:** Installation and servicing should be performed by a qualified professional to ensure compliance with all safety standards and codes.

Specifications

The LX 48WUA Spa Pump, Model 48WUA1001C-II, features the following technical specifications:

Feature	Specification
Model Number	48WUA1001C-II
Horsepower	1.0 HP
Voltage	115V
Frequency	60Hz

Feature	Specification
High Speed Current	10.3A
High Speed Flow Rate (Qmax)	460 L/min (122 Gallons Per Minute)
High Speed Head (Hmax)	14 Meters
High Speed RPM	3450 r/min
Low Speed Current	3.8A
Low Speed Flow Rate (Qmax)	200 L/min
Low Speed Head (Hmax)	3 Meters
Low Speed RPM	1725 r/min
Maximum Water Temperature	50°C
Thermal Protection	Yes (from Texas Instruments)
Certifications	UL, CUL, ETL Certified
Product Dimensions (L x W x H)	18.5" x 11.5" x 10.6"
Item Weight	24 Pounds
Material	Viton (Seal)
Power Source	Corded Electric

For detailed dimensional information, refer to the product diagram below:



Image: Dimensional diagram of the LX 48WUA Spa Pump. This diagram illustrates the pump's physical dimensions, including length, width, height, and port sizes, crucial for installation planning.

Setup and Installation

Proper installation is critical for the safe and efficient operation of your spa pump. It is recommended that installation be performed by a qualified technician.

1. **Unpacking:** Carefully remove the pump from its packaging. Inspect for any signs of shipping damage.
2. **Placement:** Position the pump on a stable, level surface, ensuring adequate ventilation around the motor.
3. **Plumbing Connections:** The pump includes two sets of 2-inch unions for plumbing connections. Ensure all connections are properly aligned and tightened to prevent leaks. Misalignment can lead to leaks and reduced performance.
4. **Electrical Wiring:** Connect the pump's wiring according to local and national electrical codes. Ensure the motor is properly grounded. This is a 115V, 60Hz pump.
5. **Priming:** Before initial operation, ensure the pump is fully primed with water. Running the pump dry can cause

severe damage.

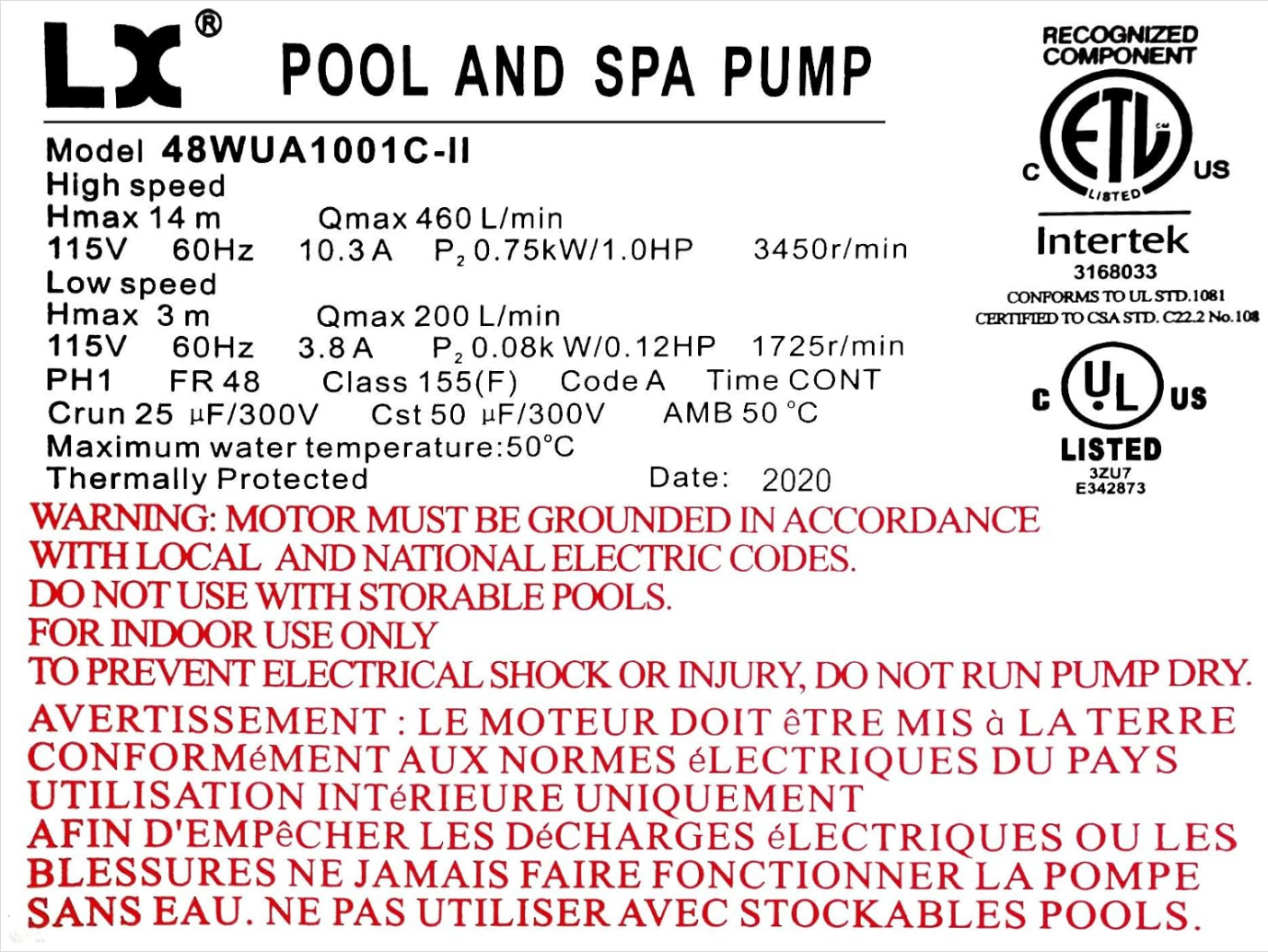


Image: Front view of the KL KEY LANDER LX 48WUA Spa Pump. This image shows the overall design and connection points of the pump, aiding in visual identification during installation.

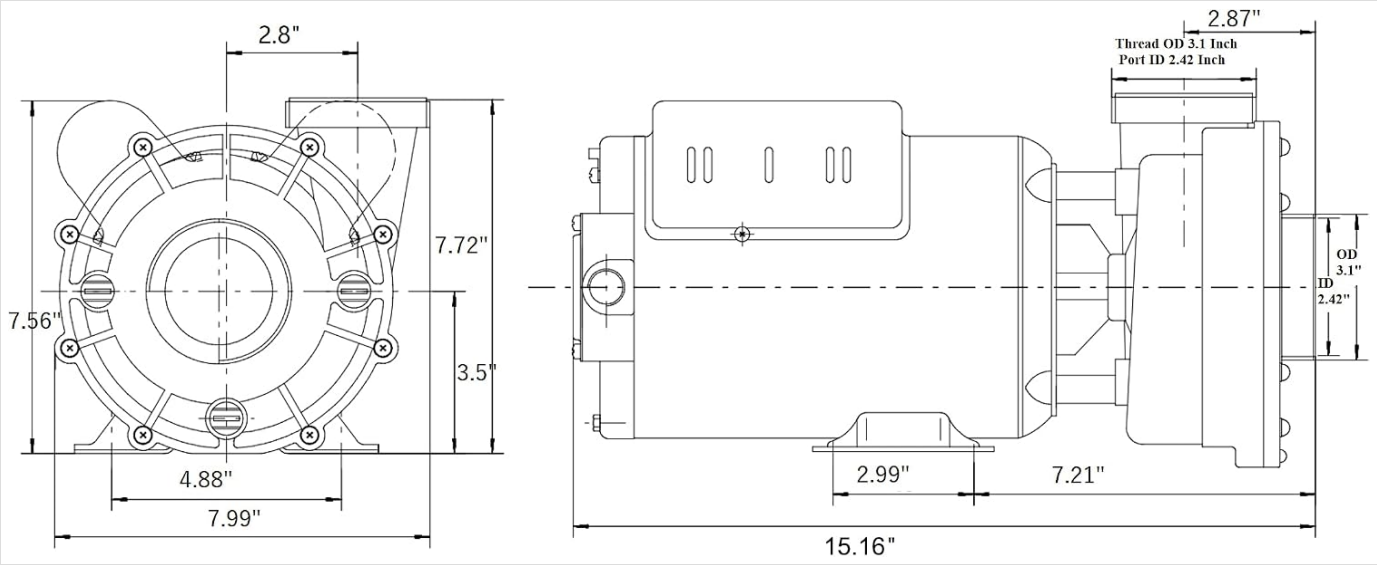


Image: Angled view of the KL KEY LANDER LX 48WUA Spa Pump. This perspective highlights the motor and pump housing, providing a clearer view of the unit's construction.



Video: Overview of the KL KEY LANDER Hot Tub Spa Pump, Model 48WUA1001C-II. This video provides a visual guide to the pump's features and may assist with understanding its components and installation process.

Operating Instructions

The LX 48WUA Spa Pump is a dual-speed pump, offering both high and low-speed operation.

- **Power On:** Ensure all electrical connections are secure and the pump is primed before turning on the power.
- **Speed Selection:** The pump operates at two speeds. Refer to your spa's control system for instructions on how to select between high and low-speed modes.
- **Quiet Operation:** This pump is designed for quiet operation, thanks to its anti-creep bearing with high-temperature grease oil. Any unusual noise should be investigated.
- **Continuous Operation:** The pump is designed for continuous operation (Time CONT) within its specified temperature limits (Max water temperature: 50°C).

Maintenance

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

- **Inspection:** Periodically inspect the pump for any signs of wear, damage, or leaks.
- **Seals:** The pump utilizes Viton/Silicon Carbide/Graphite seals, which are resistant to high/low temperatures, corrosion, and offer high hardness for durable and reliable performance. While designed for longevity, seals may eventually require replacement.
- **Motor:** The motor features excellent quality copper winding for cooler operation and a thermal protector. Keep the motor area clean and free from debris to ensure proper cooling.
- **Capacitor:** The high-quality capacitor is tested for water-proof performance, high pressure & hot water, 80,000 charge and discharge cycles, and 500V AC impulse. No user maintenance is typically required for the capacitor.
- **Winterization:** If the pump is exposed to freezing temperatures, follow proper winterization procedures for your spa system to prevent damage from freezing water.

Troubleshooting

This section addresses common issues you might encounter with your spa pump.

Problem	Possible Cause	Solution
Pump does not start or trips breaker	Electrical issue, motor overload, or seized impeller.	Check power supply and wiring connections. Ensure the motor is properly grounded. If the issue persists, consult a qualified electrician or service technician.
Pump runs but no water flow or low flow	Pump not primed, air lock, clogged impeller, or closed valves.	Ensure the pump is fully primed. Check for air in the system. Inspect and clear any debris from the impeller. Verify all valves are open.
Water leaks from pump	Loose plumbing connections, damaged seal, or cracked housing.	Tighten all union connections. Ensure plumbing is correctly aligned. If leaks persist, inspect the shaft seal for damage or consult a technician for repair.
Excessive noise or vibration	Air in pump, worn bearings, or foreign object in impeller.	Ensure pump is fully primed. Check for air leaks in suction line. If noise persists, it may indicate internal wear; professional inspection is recommended.

Support and Warranty

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact KL KEY LANDER customer support or your authorized dealer. Keep your purchase receipt and model number (48WUA1001C-II) readily available when contacting support.

While specific warranty details are not provided in this manual, KL KEY LANDER products are designed for reliability and performance. Refer to your purchase documentation or the manufacturer's website for the most current warranty information.

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