

LINGXIAO 48WUA1001C-II

Product Instruction Manual

LINGXIAO SPA PUMP - MODEL: 48WUA1001C-II

1. PRODUCT OVERVIEW

The LINGXIAO 48WUA1001C-II SPA Pump is a high-performance, two-speed motor designed for hot tubs and spas. It offers reliable operation and is engineered for compatibility with various OEM models, providing an efficient replacement solution.

1.1. Key Features

- **Model Compatibility:** Designed to be identical to original SPA factory pumps for perfect compatibility.
- **Two-Speed Operation:** Features a low speed (0.35HP, 3.8A) for continuous filtration and a high speed (1.5HP, 10.3A) for powerful jet action.
- **Durable Motor:** Equipped with a pure copper winding motor, 80,000 capacitor charge-discharge cycle tested, and a thermal protector from Texas Instruments for long service life.
- **Quiet Operation:** Incorporates Anti-Creep Bearings for reduced noise during operation.
- **Certifications:** UL, CUL, ETL certified for safety and quality.
- **Easy Plumbing:** Connects to 2-inch plumbing and includes a free set of 2-inch unions for quick installation.

1.2. Product Components

The LINGXIAO SPA Pump consists of the main pump body, the motor housing, and connection unions. The pump is designed for easy integration into existing spa systems.



Figure 1: LINGXIAO 2 Speed Hot Tub SPA Pump (Model: 48WUA1001C-II) with included unions.

2. SETUP AND INSTALLATION

2.1. Safety Precautions

- Always turn off the power to the hot tub at the circuit breaker before beginning any installation or maintenance.
- Ensure the hot tub is drained before disconnecting the old pump.
- Consult a qualified electrician if you are unsure about electrical wiring.
- Wear appropriate personal protective equipment (PPE) during installation.

2.2. Pre-Installation Checks

Before installing, verify that the new pump's specifications match your existing system. This model operates at 115V/60Hz. Confirm that your hot tub's plumbing and electrical connections are compatible.

2.3. Adjusting Discharge Location

The pump's discharge can be adjusted to one of three locations (12 o'clock, 3 o'clock, 9 o'clock) to fit your plumbing configuration. The factory default is 12 o'clock. To adjust, loosen the four indicated screws on the pump housing, rotate the wet end to the desired position, and then securely tighten the screws.

COMPATIBLE WITH OEM MODELS

2-inch
Plumbing



Min Flow
53 gal/min
Max Flow
122 gal/min

Adjust the discharge location you need



Figure 2: Adjusting the pump's discharge location.

Video 1: Visual guide on adjusting the pump's discharge location and general features.

2.4. Plumbing Connection

Connect the pump to your hot tub's 2-inch plumbing using the provided unions. Ensure all connections are tight and leak-free. It is recommended to use plumbing sealant for a secure fit.

115V/60HZ SPA PUMP



- 1.5HP Input stabilize flow
- Built-in cooling & Extended pump life
- Quieter operation
- Perfect replacement for OEM

Figure 3: Plumbing connection with 2-inch unions.

2.5. Electrical Wiring

This pump is a two-speed model designed for 115V/60Hz circuits. Proper wiring is critical for safe and correct operation. Refer to the diagram below and the instructional video for detailed wiring steps.

- **Turn off power first.**
- Ensure the corresponding voltage of the circuit (115V/60Hz).
- Connect the **Red wire (High speed)** to terminal **H**.
- Connect the **White wire (Neutral wire)** to terminal **C**.
- Connect the **Black wire (Low speed)** to terminal **L**.
- Connect the **Green wire (Ground wire)** to the terminal **Ground**.



Figure 4: 115V Two-Speed Wiring Diagram.

Video 2: Comprehensive guide on wiring the LINGXIAO 48WUA series SPA pump for two-speed operation.

3. OPERATION

3.1. Initial Startup

After successful installation and wiring, fill your hot tub with water. Ensure all valves are open and there are no airlocks in the system. Turn on the power to the hot tub. The pump should prime itself and begin circulating water.

3.2. Two-Speed Functionality

This pump offers two operational speeds:

- **Low Speed:** Ideal for continuous filtration and heating, drawing approximately 3.8 Amps and providing 0.35 HP.
- **High Speed:** Provides maximum power for jets and hydrotherapy, drawing approximately 10.3 Amps and delivering 1.5 HP.

Switch between speeds using your hot tub's control panel.

3.3. Flow Rate

The pump is capable of delivering a maximum flow rate of 122 Gallons Per Minute (GPM) at high speed and a minimum flow rate of 53 GPM at low speed, ensuring efficient water circulation and powerful jet performance.



Figure 5: Pump Flow Rates.

4. MAINTENANCE

4.1. Regular Checks

- Periodically inspect the pump for any signs of leaks around the unions or pump seals.
- Listen for unusual noises during operation, which could indicate a bearing issue or debris in the wet end.
- Ensure the motor's cooling fan is free from obstructions to prevent overheating.

4.2. Cleaning

Keep the exterior of the pump clean and free of dust and debris. Do not spray water directly onto the motor or electrical components.

4.3. Winterization

In climates where temperatures drop below freezing, it is essential to properly winterize your hot tub and pump to prevent freeze damage. This typically involves draining the pump and plumbing lines completely.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your SPA pump.

5.1. Common Issues

- **Pump Not Starting:**
 - Check if the circuit breaker has tripped.
 - Verify all electrical connections are secure and correctly wired (refer to Section 2.5).
 - Ensure the hot tub's control panel is sending power to the pump.
- **Low Pressure or No Water Flow:**
 - Check for airlocks in the plumbing system; try bleeding air from the pump or jets.
 - Inspect the hot tub filter for clogs and clean or replace if necessary.
 - Ensure all valves in the plumbing system are fully open.
 - Check for debris or obstructions in the pump's wet end or impeller.
- **Excessive Noise:**
 - A loud grinding or squealing noise may indicate worn bearings.
 - Vibration can be caused by loose mounting bolts; ensure the pump is securely fastened.
 - Air cavitation (sucking air) can cause noise; check water level and ensure no air leaks in the suction line.

5.2. Contact Support

If you encounter issues that cannot be resolved using the troubleshooting steps above, please contact LINGXIAO PUMP Support through Amazon 'Ask a question'. Our technical support team is available to assist you within 24 hours.

6. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	LINGXIAO
Model	48WUA1001C-II
Voltage	115 Volts (AC)
Power (High Speed)	1.5 HP
Power (Low Speed)	0.35 HP
Amperage (High Speed)	10.3A
Amperage (Low Speed)	3.8A

Maximum Flow Rate	122 Gallons Per Minute
Minimum Flow Rate	53 Gallons Per Minute
Product Dimensions	8"L x 13"W x 8"H
Item Weight	26 Pounds
Material	Coiling iron
Manufacturer	LX

7. WARRANTY AND SUPPORT




7.1. Warranty Information



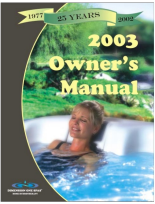
The LINGXIAO 48WUA1001C-II SPA Pump comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

7.2. Customer Support

For any questions, technical assistance, or warranty claims, please do not hesitate to contact LINGXIAO PUMP Support. You can reach us through the 'Ask a question' feature on Amazon. We are committed to providing prompt and helpful support within 24 hours to resolve any issues you may encounter.

Related Documents - 48WUA1001C-II

	<p>LINGXIAO Variable Speed Pumps Instruction Manual - Relax Series</p> <p>Comprehensive instruction manual for LINGXIAO Relax series variable speed pool pumps (Relaax130-VS, Relaax220-VS, Relaax390-VS), covering installation, operation, maintenance, safety, troubleshooting, and technical specifications.</p>
	<p>Hot Spring Limelight Collection Quick Start Guide: Setup, Maintenance, and Safety</p> <p>A comprehensive quick start guide for Hot Spring Limelight Collection spas, covering initial setup, water care, essential maintenance tips, important safety instructions, and electrical requirements for safe operation.</p>
	<p>VEVOR SPA PUMP 48WUA1501C-II/48WUA2002C-II Installation and Operation Manual</p> <p>Comprehensive installation, operation, safety, and troubleshooting guide for VEVOR SPA PUMP models 48WUA1501C-II and 48WUA2002C-II. Learn how to properly install, connect, and maintain your spa pump for optimal performance.</p>

	<p>VEVOR Spa Pumps Instruction Manual - Models 48HT1501-II, 56HT300-II, 56HT400-II</p> <p>Comprehensive instruction manual for VEVOR Spa Pumps (Models 48HT1501-II, 56HT300-II, 56HT400-II), covering installation, safety, operation, maintenance, and troubleshooting. Learn how to properly install and use your VEVOR spa pump for optimal performance.</p>
	<p>Bullfrog Spas Owner's Manual: Installation, Operation, and Maintenance</p> <p>Comprehensive owner's manual for Bullfrog Spas Series I, Series II, and SportX Series Hot Tubs. Covers installation, operation, safety, maintenance, and troubleshooting for your Bullfrog Spa.</p>
	<p>2003 Dimension One Spas Owner's Manual - Safety, Operation, and Maintenance Guide</p> <p>This comprehensive owner's manual for the 2003 Dimension One Spas hot tub models provides essential safety instructions, detailed operation guides, routine maintenance procedures, and troubleshooting tips. Learn about features like the Jet System Selector Valve, Water Management Systems (UltraPure, CrystalZone), and Dynamic Massage Sequencer. Ensure safe and optimal use of your spa with this indispensable guide.</p>