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> VEVOR 2 Speed SPA Pump (Model 48HT1501-II) Instruction Manual

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Model: 48HT1501-II

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your VEVOR 2 Speed SPA Pump, Model 48HT1501-II. This 48-frame motor pump is designed as a replacement for OEM models in hot tubs, operating on AC 110-120V 60Hz. It features a dual-speed design for versatile performance and includes two 2-inch (5.6 cm) connectors for installation. Please note that the SPA pump's performance is based on input power. Always verify the parameters of your existing pump before purchase or installation.



VEVOR

HYDRO MASSAGE FOR RELAXATION AND STRESS RELIEF

Dual-Speed Spa Pump for Continuous and Efficient Operation

-  2-inch Interface
-  Leak-Proof Seal
-  Secure Operation
-  Easy Installation
-  48 Frame Motor

AC 110-120V

Image: VEVOR 2 Speed SPA Pump designed for hydro massage and relaxation.

2. SAFETY INFORMATION

Your safety is paramount. Please read and understand all safety warnings and instructions before installing or operating the pump.

Electrical Safety

WARNING: Risk of Electric Shock. Connect this pump only to a grounding-type receptacle protected by a Ground-Fault Circuit-Interrupter (GFCI). The motor must be grounded in accordance with local and national electrical codes. Ensure the component cover is securely in place before operating the pump to prevent electric shock or injury.



Image: Product label detailing electrical specifications and safety warnings for the SPA pump.

Thermal Protection

The pump is equipped with Texas Instruments Thermal Protection. This feature accurately monitors the motor temperature and will automatically disconnect the circuit if the temperature exceeds a safe operating limit, protecting the motor from damage due to overheating. This ensures secure and reliable operation.



Image: Overheat auto-shutdown mechanism for the VEVOR SPA pump, highlighting its use in home, underground, and outdoor spas.

3. PRODUCT OVERVIEW

The VEVOR 2 Speed SPA Pump is engineered for durability and performance in hot tub environments. Key features include:

- **Dual-Speed Operation:** Offers both high-speed (1.5 HP, 150 GPM) for powerful water flow and low-speed (0.46 HP, 70 GPM) for gentle circulation and energy efficiency.
- **Durable Motor:** Equipped with a pure copper wire motor and anti-creep bearings, tested for 80,000 electric cycles to ensure long-term stability.
- **Leak-Proof Seals:** Utilizes fluororubber shaft seals, providing excellent resistance to high temperatures, corrosion, oil, and aging, effectively preventing fluid and particle leakage.
- **Rotational Interface:** A 90° rotational pump head and interface allow for flexible installation in various spaces and pipe configurations.

48 FRAME SPA PUMP

Mainstream size perfect fit regular bathtubs

48 Frame Motor

AC 110-120V

2 in Inlet & Outlet

Hot & Cold Water Universal



Image: VEVOR 48 Frame SPA Pump highlighting its dimensions and features such as 2-inch inlet/outlet and AC 110-120V compatibility.

1.5 HP MIGHTY ALL-COPPER MOTOR

Unwavering power for dual-speed performance

Pure Copper Motor, High Horsepower Operation
Anti-Creep Bearings, Long-Lasting Durability



High Speed:
1.5 HP / 150 GPM / 42.65 ft (13 m)



Low Speed:
0.46 HP / 70 GPM / 9.18 ft (2.8 m)

Image: Detailed view of the 1.5 HP all-copper motor, emphasizing its robust construction and anti-creep bearings for reliable dual-speed operation.



FLUORORUBBER SHAFT SEALS

Fearless against water impurities, Defying impact and wear

- 
 High Temperature
Resistance
- 
 Stable
Operation
- 
 Superior
Sealing
- 
 Impurity
Isolation

Image: Illustration of fluororubber shaft seals, highlighting their resistance to high temperature, corrosion, oil, and aging for effective leak prevention.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your VEVOR SPA pump:

1. **Select Horizontal Position:** Choose a stable, horizontal position for the pump to ensure easy installation and future maintenance access.
2. **Adjust Water Outlet Direction:** The pump head and interface can be rotated 90 degrees. Disassemble the screws, adjust the angle of the pump's water outlet to match your hot tub's piping, and then reconnect the water pipe. This flexibility allows adaptation to tight spaces or specific installation requirements.
3. **Connect Piping:** Use the provided two 2-inch (5.6 cm) connectors to securely attach the pump to your hot tub's plumbing system. Ensure all connections are tight to prevent leaks.
4. **Correct Wiring:** Refer to the wiring diagram on the pump's label for proper electrical connection. The pump includes a plug with wires for high speed (red), low speed (black), common (white), and ground (green). Ensure all wiring is done by a qualified professional and complies with local and national electrical codes.
5. **Perform Testing:** After connecting the power supply, perform thorough testing and inspection to confirm that all components are working correctly and there are no leaks.

FOUR SIMPLE STEPS TO INSTALLATION

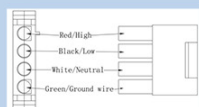
Flexible water pipe connection with 90° rotational interface

1 Select a horizontal position for easy pump installation and future maintenance.

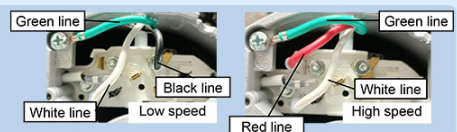
2 Adjust the pump's water outlet direction and connect the water pipe according to the bathtub's structure. (With a 90° rotational interface, it adapts flexibly to different installation environments)

3 **Correct Wiring:**

Schematic diagram of the AMP plug connection



Switch the high and low speed line connection diagram



4 After connecting the power supply, perform testing and inspection to confirm that all components work correctly

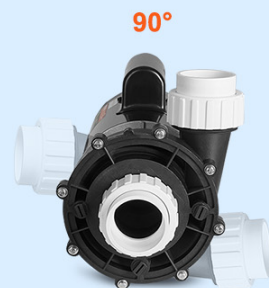


Image: Visual guide illustrating the four simple steps for installing the VEVOR SPA pump, including flexible water pipe connection with a 90-degree rotational interface and correct wiring.

90-DEGREE ROTATIONAL INTERFACE

Ideal for installing pipes in different directions

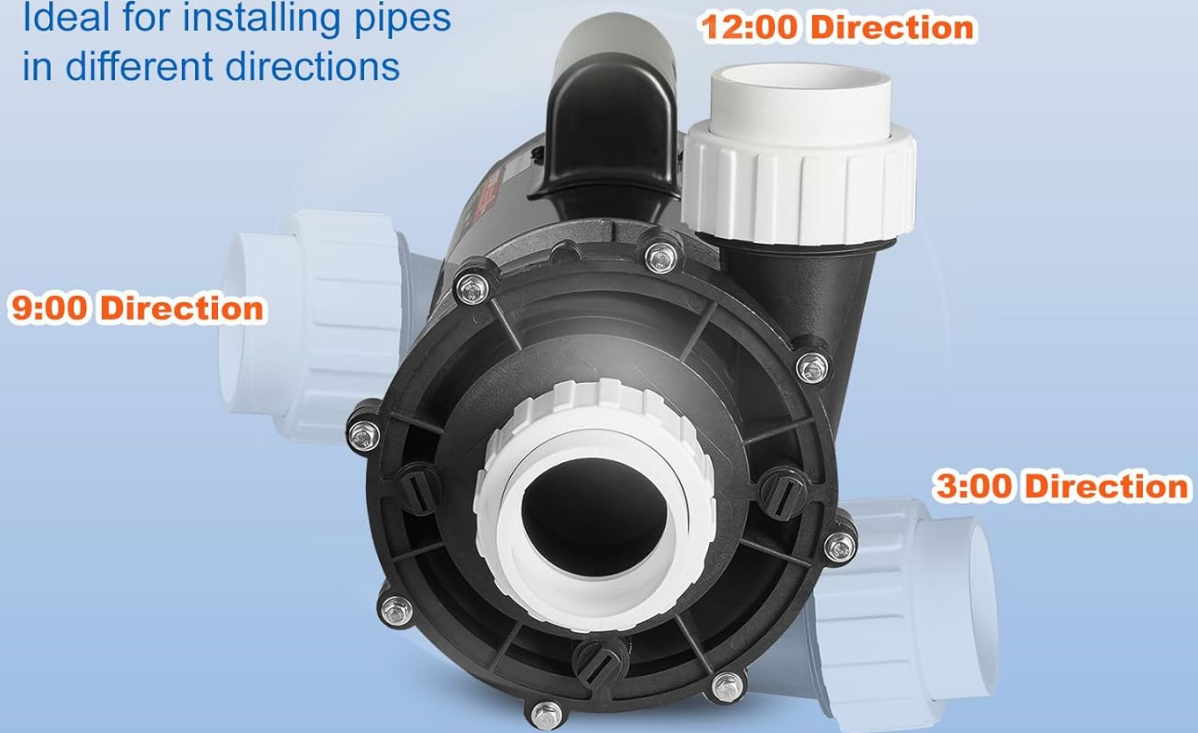


Image: The 90-degree rotational interface of the SPA pump, demonstrating how the pump head can be adjusted for various pipe directions (9:00, 12:00, 3:00) to fit different installation needs.



Image: The VEVOR SPA pump shown with the two 2-inch connectors, ready for plumbing connections.

5. OPERATING INSTRUCTIONS

The VEVOR 2 Speed SPA Pump offers two distinct operating speeds to suit your hot tub needs:

- **High Speed (1.5 HP):** Provides a powerful flow rate of 150 GPM (Gallons Per Minute) with a maximum lifting height of 42.65 ft. This mode is ideal for vigorous hydro-massage and rapid water circulation.
- **Low Speed (0.46 HP):** Delivers a gentler flow rate of 70 GPM with a maximum lifting height of 9.18 ft. This mode is suitable for quiet circulation, filtration, and energy-saving operation.

Switching between speeds is typically controlled by your hot tub's existing control system. Refer to your hot tub's user manual for specific instructions on how to select pump speeds.

TWO-SPEED FLOW CONTROL

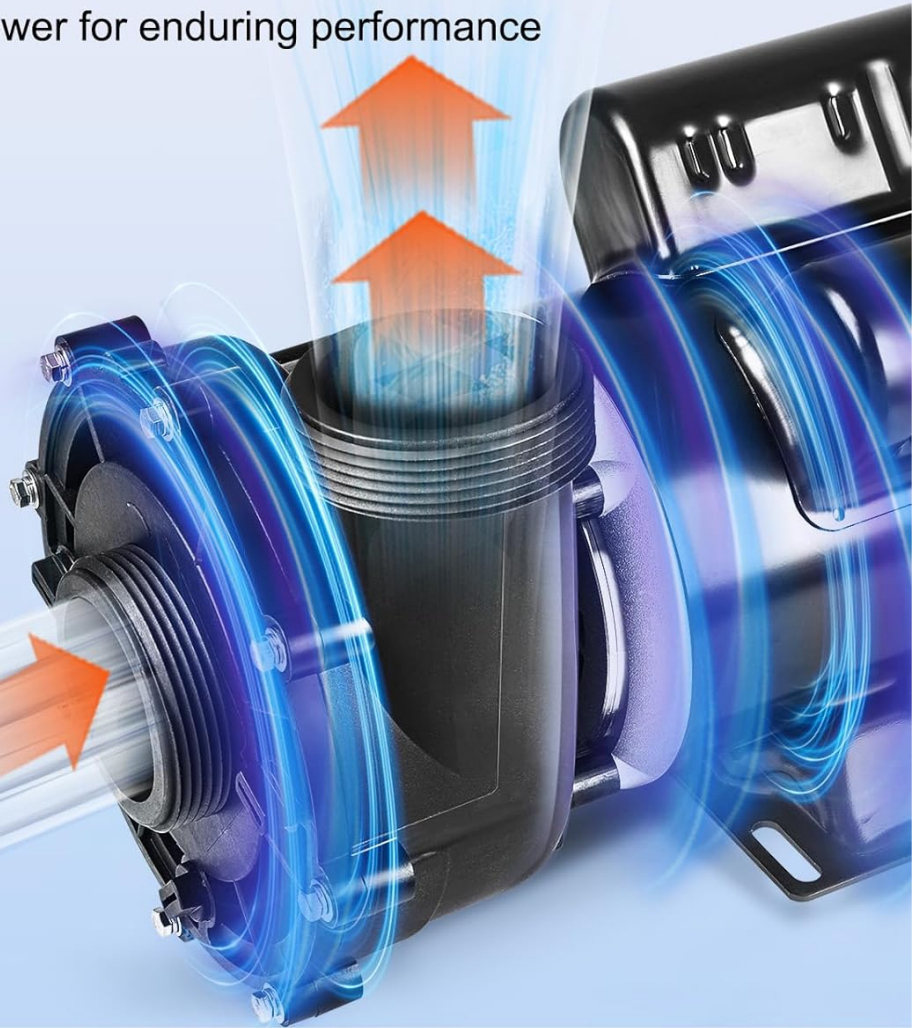
Unleash robust power for enduring performance



Durable Pure
Copper Motor
Tested through
80,000 power cycles



Anti-Creep
Bearings
Fearless of high
temperature and
pressure



High Speed: **1.5 HP / 150 GPM / 42.65 ft (13 m)**

Low Speed: **0.46 HP / 70 GPM / 9.18 ft (2.8 m)**

Image: Diagram illustrating the two-speed flow control of the VEVOR SPA pump, detailing the horsepower, GPM, and head lift for both high and low speeds.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR SPA pump. While the fluororubber shaft seals are designed for durability and resistance to harsh conditions, periodic checks are recommended.

- **Inspect for Leaks:** Regularly check all pipe connections and the pump housing for any signs of water leakage. Address any leaks promptly to prevent damage.
- **Clean Pump Area:** Keep the area around the pump clean and free from debris, leaves, or other obstructions that could impede airflow or operation.
- **Check Wiring:** Periodically inspect electrical wiring for any signs of wear, damage, or loose connections. Ensure the GFCI is functioning correctly.
- **Winterization:** If you live in an area with freezing temperatures, follow proper hot tub winterization procedures, which typically include draining the pump to prevent freeze damage.

7. TROUBLESHOOTING

This section provides general troubleshooting tips for common issues. For complex problems, consult a qualified technician.

- **Pump Not Starting:**

- Check power supply and ensure the pump is plugged into a functional GFCI outlet.
- Verify that the GFCI has not tripped. Reset if necessary.
- Ensure all wiring connections are secure.

- **Low Water Flow:**

- Check for blockages in the intake or discharge pipes.
- Ensure the water level in the hot tub is adequate.
- Inspect the impeller for debris.

- **Unusual Noise:**

- Check for air in the system (prime the pump if needed).
- Inspect for loose components or debris inside the pump.
- Ensure the pump is securely mounted.

- **Pump Overheating:**

- Ensure adequate ventilation around the motor.
- Check for prolonged operation at high temperatures. The thermal protection feature will automatically shut down the pump if it overheats.

8. SPECIFICATIONS

Detailed specifications for the VEVOR 2 Speed SPA Pump, Model 48HT1501-II:

Feature	Specification
Brand	VEVOR
Model Number	48HT1501-II
Input Voltage	AC 110-120V, 60Hz
High Speed Horsepower	1.5 HP
High Speed Flow Rate	150 GPM (Gallons Per Minute)
High Speed Head Lift	42.65 ft (13 m)
Low Speed Horsepower	0.46 HP
Low Speed Flow Rate	70 GPM (Gallons Per Minute)
Low Speed Head Lift	9.18 ft (2.8 m)

Feature	Specification
Port Size	2 inches
Interface Rotation Angle	90 degrees
Max Water Temperature	50°C
Thermal Protection	Texas Instruments HT-22
Material	Copper (motor), Plastic (housing)
Item Weight	26.68 Pounds
Included Components	1 x User Manual, 2 x 2 in Connectors



Image: Comprehensive diagram showing the dimensions and key specifications of the VEVOR 2 Speed SPA Pump.

9. WARRANTY AND SUPPORT

For technical support and warranty information, please visit the official VEVOR support website:

www.vevor.com/support

Please retain your purchase receipt for warranty claims.