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› Johnson Pump 28502 Livewell Aerator Cartridge Pump User Manual

Johnson Pump 28503



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Model: 28503

INTRODUCTION

This manual provides essential information for the safe and efficient operation and maintenance of your Johnson Pump 28502 Livewell Aerator Cartridge Pump. This pump is designed for livewell aeration, featuring a quick-replace motor cartridge and an exclusive anti-airlock design. It has a capacity of 500 gallons per hour and a straight intake configuration.

Key Features:

- Anti-airlock protection
- Fully submersible design
- 500 Gallons Per Hour (GPH) flow rate
- Straight intake configuration
- Quick-replace motor cartridge

SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the pump. Failure to follow these instructions may result in property damage, serious injury, or death.

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure all electrical connections are waterproof and meet local and national electrical codes.
- Do not operate the pump if the power cord or pump housing is damaged.
- This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- Keep hands and loose clothing clear of moving parts during operation.

WHAT'S IN THE BOX

Upon opening the package, verify that all components are present and undamaged:

- Johnson Pump 28502 Livewell Aerator Cartridge Pump, 500 GPH - Straight



Image: The Johnson Pump 28502 Livewell Aerator Cartridge Pump. This image shows the compact, black pump unit with its straight intake, ready for installation.

SETUP AND INSTALLATION

The Johnson Pump 28502 is designed for straightforward installation. Ensure the mounting surface is clean and secure.

1. **Mounting:** Securely mount the pump in the desired location within the livewell or bilge area. Ensure the pump is positioned to allow for proper water intake and discharge.
2. **Electrical Connection:** Connect the pump's electrical wires to a 12-volt DC power source. Observe correct polarity (typically red to positive, black to negative). Use marine-grade, waterproof connectors and ensure all connections are sealed to prevent corrosion and short circuits.
3. **Hose Connection:** Attach the appropriate hoses to the pump's intake and discharge ports. Use hose clamps to secure all connections, preventing leaks and ensuring efficient water flow. The pump features a straight intake configuration.
4. **Testing:** Once installed, briefly apply power to the pump to verify proper operation and check for any leaks in the plumbing.

system.

Note: Some users have reported that older pump housings can become brittle. When replacing just the cartridge, inspect the housing for cracks or damage. Consider replacing the entire pump if the housing shows signs of wear to prevent future failures.

OPERATING INSTRUCTIONS

The Johnson Pump 28502 is designed for continuous or intermittent operation to aerate livewells.

1. **Activation:** Turn on the power switch connected to the pump. The pump will begin to draw water through its intake and discharge it, providing aeration to your livewell.
2. **Monitoring:** Periodically check the livewell to ensure adequate water circulation and aeration. The 500 GPH flow rate is designed for effective water exchange.
3. **Anti-Airlock Feature:** The pump's anti-airlock protection helps ensure consistent water flow by preventing air pockets from stopping the pump's operation.
4. **Submersible Operation:** This pump is fully submersible and designed to operate effectively when submerged in water.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pump.

- **Cleaning:** Periodically inspect the pump's intake and impeller for debris such as weeds, fishing line, or other obstructions. Clean as necessary to maintain efficient flow.
- **Cartridge Replacement:** The quick-replace motor cartridge design allows for easy servicing. If the motor performance degrades, the cartridge can be twisted out and replaced without removing the entire pump housing from its mounting.
- **Electrical Connections:** Regularly check all electrical connections for corrosion or looseness. Clean and re-seal connections as needed.
- **Hose Integrity:** Inspect hoses for kinks, cracks, or signs of wear. Replace damaged hoses to prevent leaks.

TROUBLESHOOTING

If you encounter issues with your pump, consider the following common solutions:

- **Pump Not Running:**
 - Check power supply: Ensure the 12V DC power source is active and connections are secure.
 - Inspect fuse/breaker: Verify that the circuit's fuse or breaker has not tripped.
 - Check wiring: Look for loose or corroded electrical connections.
 - Verify cartridge seating: Ensure the quick-replace motor cartridge is fully seated and locked into the housing. A loose cartridge may prevent operation.
- **Low Flow/No Water Output:**
 - Check for obstructions: Clear any debris from the intake screen or impeller.
 - Inspect hoses: Ensure hoses are not kinked or blocked.
 - Verify water level: The pump must be submerged to operate effectively.
 - Check for airlock: The anti-airlock feature minimizes this, but ensure the pump is fully primed if it was recently installed or dry.
- **Unusual Noise:**
 - Debris in impeller: Disconnect power and check for foreign objects caught in the impeller.
 - Loose mounting: Ensure the pump is securely mounted and not vibrating excessively.

SPECIFICATIONS

Model Name	28503
Brand	Johnson Pump
Flow Rate	500 Gallons Per Hour (GPH)
Voltage	12 Volts DC
Power Source	AC/DC (typically connected to DC for marine use)
Style	Submersible
Intake Configuration	Straight
Product Dimensions (L x W x H)	12.25" x 7.5" x 2.5"
Item Weight	0.97 Pounds
UPC	729321285032

WARRANTY AND SUPPORT

Johnson Pump products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty details, claims, or technical support, please refer to the official Johnson Pump website or contact their customer service directly. Keep your purchase receipt as proof of purchase. For further assistance, visit the [Johnson Pump Store on Amazon](#).

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