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> [Johnson Pump](#) /

> Johnson Pump of America 34024 Marine in-Well Aerator Kit User Manual

Johnson Pump 34024

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User Manual

Model: 34024 | Brand: Johnson Pump

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Johnson Pump of America 34024 Marine in-Well Aerator Kit. Please read this manual thoroughly before attempting to install or operate the unit to ensure safe and efficient performance.

The Johnson Pump 34024 Marine in-Well Aerator Kit is designed to provide essential aeration for livewells, helping to keep fish healthy and active. Its robust design ensures reliable operation in marine environments.

2. SAFETY INFORMATION

WARNING:

- Always disconnect power before installing, servicing, or performing any maintenance on the aerator kit.
- Ensure all electrical connections are properly sealed and protected from water ingress to prevent short circuits and electrical hazards.
- Installation should be performed by a qualified marine technician if you are unsure about any steps.
- Do not operate the pump dry. Running the pump without water can cause damage to the impeller and motor.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PACKAGE CONTENTS

Verify that all components listed below are present and undamaged before beginning installation:

- Aerator Pump Unit (red/black)
- Flexible Hoses (clear and white corrugated)
- T-Valve Assembly (white/black)
- Thru-Hull Fitting (white)
- Control Panel (black)

- Small Hose Connector



Figure 1: Components of the Johnson Pump Marine in-Well Aerator Kit. This image displays the various components included in the kit, including the red pump unit, white flexible hoses, a T-valve, a thru-hull fitting, and a black control panel.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your aerator kit. Follow these general steps:

1. **Mounting the Pump:** Select a suitable location for the pump unit within the livewell or bilge area. Ensure it is securely mounted and accessible for maintenance. The pump should be positioned to draw water efficiently.
2. **Hose Connections:** Connect the inlet hose from the thru-hull fitting to the pump's inlet. Connect the outlet hose from the pump to the T-valve assembly, which will direct aerated water into the livewell. Ensure all hose clamps are tightened to prevent leaks.
3. **Thru-Hull Installation:** Install the thru-hull fitting in a suitable location on the boat hull, below the waterline. Ensure a watertight seal using marine sealant.
4. **Control Panel Wiring:** Mount the control panel in a convenient location. Wire the pump to the control panel according to the wiring diagram provided with the kit (not shown here, refer to product-specific diagram). Ensure proper fuse protection and connection to a 12V DC power source.
5. **Testing:** After installation, fill the livewell with water and test the system. Check for leaks at all connections and ensure the pump operates smoothly, producing adequate aeration.

For detailed wiring diagrams and specific mounting instructions, refer to the diagrams supplied with your physical product kit.

5. OPERATING INSTRUCTIONS

The Johnson Pump 34024 Aerator Kit is designed for straightforward operation:

- **Power On/Off:** Use the switch on the control panel to activate or deactivate the aerator pump.
- **Aeration Control:** The control panel may offer options for continuous aeration or timed cycles. Adjust settings as needed to maintain optimal oxygen levels in your livewell.
- **Water Circulation:** Ensure the livewell is filled with water before operating the pump. The pump will draw water from outside the boat and circulate it through the livewell, introducing oxygen.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your aerator kit:

- **Routine Cleaning:** Periodically inspect the pump inlet and outlet for debris, such as weeds or fishing line, and clear any obstructions.
- **Impeller Inspection:** Check the impeller for wear or damage. A worn impeller can reduce pump performance. Replace if necessary.
- **Hose and Connection Check:** Inspect all hoses for kinks, cracks, or leaks. Ensure all clamps and fittings are secure.
- **Electrical Connections:** Verify that all electrical connections are clean, corrosion-free, and securely fastened. Apply dielectric grease to terminals for added protection.
- **Winterization:** In freezing climates, ensure the pump and hoses are completely drained of water to prevent damage from ice expansion.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse; Loose wiring; Motor failure	Check battery connections; Replace fuse; Secure wiring; Contact support if motor is faulty
Low water flow/aeration	Clogged inlet/outlet; Kinked hose; Worn impeller; Air lock	Clear obstructions; Straighten hose; Inspect/replace impeller; Prime pump if necessary
Excessive noise/vibration	Debris in pump; Loose mounting; Damaged impeller	Clear debris; Tighten mounting screws; Inspect/replace impeller
Water leaks	Loose hose clamps; Damaged hose/fitting; Improperly sealed thru-hull	Tighten clamps; Replace damaged parts; Re-seal thru-hull fitting

8. SPECIFICATIONS

- **Brand:** Johnson Pump
- **Model Name:** Johnson Pump of America 34024 Marine in-Well Aerator Kit
- **Part Number:** 34024
- **Material:** Plastic
- **Power Source:** AC/DC (typically 12V DC for marine applications)
- **Item Package Dimensions:** 16.14 x 10.2 x 5.2 inches
- **Package Weight:** 1.26 Kilograms (approx. 2.78 lbs)
- **Manufacturer:** SPX FLOW US, LLC
- **UPC:** 729321340243

9. WARRANTY AND SUPPORT

This Johnson Pump product comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty documentation included with your purchase or visit the official Johnson Pump website. For technical support, replacement parts, or further assistance, please contact Johnson Pump customer service. Contact information can typically be found on the product packaging or the official Johnson Pump website.

Online Resources:

- Visit the [Johnson Pump Store on Amazon](#) for more products and information.

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