**Gidrox RVDHP4-L**

# Gidrox 12V RV Water Pump (Model RVDHP4-L) Instruction Manual

5.0 GPM, 55 PSI Diaphragm Pump

## 1. Product Overview

This Gidrox 12V RV Water Pump is designed for reliable water delivery in recreational vehicles, boats, and other off-grid applications. It features a robust design with dual safeguards, including overheating protection at 158°F (75°C).

The pump incorporates vortex noise reduction technology and a rubber vibration-damping base, resulting in a low operating noise level of 40 dB. It delivers a powerful 5.0 GPM flow rate, offers 10 ft of self-priming capability, and can achieve a maximum head pressure of 125 ft, ensuring consistent water supply.

The pressure switch is factory preset to 55 PSI, with an adjustable range of 30-80 PSI, allowing customization for various water needs. Its smart auto start-stop system maintains the selected pressure silently and consistently.




Figure 1: Gidrox 12V RV Water Pump with included fittings.

## 2. Safety Information

- Always disconnect power before installing, servicing, or performing maintenance on the pump.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- Do not operate the pump with flammable liquids. This pump is designed for fresh water only.
- Protect the pump from freezing temperatures to prevent damage.
- Verify that the power supply voltage matches the pump's requirements (12V DC).
- Install the pump in a dry, well-ventilated area, protected from direct sunlight and extreme weather.

## 3. Package Contents

The following components are included with your Gidrox 12V RV Water Pump:

- 1x Gidrox 12V RV Water Pump
- 1x 1/2 inch Male Threaded Elbow
- 1x 12.7mm Barbed Elbow
- 1x 12.7mm Barbed Fitting
- 1x 50 Mesh Stainless Steel Filter Screen
- 1x Stainless Steel Hose Clamp
- PTFE Thread Seal Tape
- Shaped Hex Key (for pressure adjustment)




Figure 2: All parts and hardware included for setup.

## 4. Specifications

| | |
|---|---|
| **Brand** | Gidrox |
| **Model Number** | RVDHP4-L |
| **Power Source** | Battery Powered (12V DC) |
| **Maximum Flow Rate** | 5.0 GPM |
| **Rated Pressure** | 55 PSI (Adjustable 30-80 PSI) |
| **Maximum Lifting Height (Head)** | 125 feet |
| **Self-Priming Height** | 10 feet |
| **Noise Level** | 40 dB |
| **Overheating Protection** | 158°F (75°C) |
| **Product Dimensions (L x W x H)** | 8.65" x 4.49" x 4.92" |
| **Material** | Plastic, Metal |




Figure 3: Product dimensions and included accessories.

## 5. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your pump. Follow these steps for a straightforward setup:

1. **Mounting:** Securely mount the pump in a dry, accessible location. The rubber vibration-damping base helps reduce noise and should be utilized. Ensure there is adequate space around the pump for ventilation and future maintenance.
2. **Inlet Connection:** Connect the water source (e.g., RV fresh water tank) to the pump's inlet port. It is recommended to install the included 50 mesh stainless steel filter screen on the inlet side to prevent debris from entering the pump. Use the appropriate barbed or threaded fittings and PTFE thread seal tape for a watertight connection.
3. **Outlet Connection:** Connect the pump's outlet port to your RV's plumbing system. Use the appropriate fittings and hose clamps to ensure a secure, leak-free connection.

4. **Electrical Wiring:** Connect the pump to a 12V DC power source. Ensure the positive (+) wire (typically red) is connected to the positive terminal and the negative (-) wire (typically black) to the negative terminal. The pump requires at least 8 amps for startup.
5. **Priming:** This pump is self-priming up to 10 feet. Once all connections are secure, open a faucet in your system to allow air to escape. Turn on the pump. It will draw water and prime itself. Close the faucet once a steady stream of water is achieved.




Figure 4: Example of pump installation with water lines.

## 6. Operating Instructions

The Gidrox water pump operates automatically based on system pressure. It will turn on when water pressure drops (e.g., when a faucet is opened) and turn off when pressure is restored (e.g., when a faucet is closed).

### Pressure Adjustment

The pump's pressure switch is factory preset to 55 PSI. You can adjust this pressure within a range of 30-80 PSI using the adjustment screw located on the pressure switch. Use the included hex key for this adjustment:

- Turn the adjustment screw **clockwise** to **increase** the pressure.
- Turn the adjustment screw **counter-clockwise** to **decrease** the pressure.

Make small adjustments and test the system pressure after each change to achieve your desired water flow and pressure.




Figure 5: Pressure adjustment dial and auto on/off feature.

## Performance Characteristics

- **Max Flow:** 5.0 GPM ensures ample water for multiple uses.
- **Max Suction:** 10 FT self-priming capability.
- **Max Head:** 125 FT for strong water delivery.




Figure 6: Powerful water flow for various applications.

## Quiet Operation

The pump's design, including vortex noise reduction and rubber feet, contributes to a quiet operation at approximately 40 dB, significantly reducing noise compared to traditional pumps.




Figure 7: Quiet operation at 40 dB.

## 7. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Gidrox water pump.

- **Filter Cleaning:** Periodically inspect and clean the 50 mesh stainless steel filter screen on the inlet side. Remove any accumulated debris to maintain optimal water flow and prevent pump damage.
- **Winterization:** In freezing temperatures, the pump must be drained and winterized to prevent damage from ice expansion. Disconnect the inlet and outlet hoses and allow all water to drain from the pump. Consider using RV antifreeze in your system as per your RV manufacturer's guidelines.
- **Connection Checks:** Regularly check all hose connections and electrical wiring for leaks, corrosion, or loose fittings. Tighten as necessary.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and dust.




Figure 8: Durability metrics for key pump components.

## 8. Troubleshooting

If you encounter issues with your Gidrox water pump, refer to the following troubleshooting guide:

| Problem | Possible Cause | Solution |
|---|---|---|
| Pump does not turn on | No power, loose wiring, blown fuse/breaker, faulty pressure switch. | Check power supply, inspect wiring connections, replace fuse/reset breaker, test pressure switch. |
| Low or no water flow | Clogged inlet filter, air in system, low water level in tank, kinked hose, restricted plumbing. | Clean inlet filter, re-prime pump, check water tank level, inspect hoses for kinks, check plumbing for obstructions. |

| | | |
|---|---|---|
| Pump runs continuously or cycles rapidly | Leak in plumbing system, faulty check valve, pressure switch set too low, air in system. | Inspect all connections for leaks, check check valve, adjust pressure switch (increase PSI), re-prime pump. |
| Excessive noise/vibration | Loose mounting, air in system, debris in pump. | Ensure pump is securely mounted, re-prime pump to remove air, inspect for debris (requires pump disassembly, contact support if unsure). |

## 9. Warranty and Support

The Gidrox 12V RV Water Pump is backed by a**3-Year Warranty**, providing peace of mind regarding product quality and performance. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your pump, please contact Gidrox customer support. Support is available 24/7 to assist you.

Additional protection plans may be available for purchase, offering extended coverage beyond the standard warranty period. Please refer to your purchase documentation for details on available protection plans.

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