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› DC HOUSE 33-Series 12V Water Diaphragm Pump Instruction Manual

DC HOUSE 33-Series

DC HOUSE 33-Series 12V Water Diaphragm Pump Instruction Manual

Model: 33-Series

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient use of your DC HOUSE 33-Series 12V Water Diaphragm Pump. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

SAFETY INFORMATION

- Always disconnect power before performing any service or maintenance.
- Ensure proper ventilation during operation.
- Do not pump flammable liquids.
- Protect the pump from freezing temperatures.
- Ensure all electrical connections are secure and insulated to prevent short circuits.
- This pump is designed for 12V DC power supply only.

PRODUCT FEATURES

- **12V DC Diaphragm Pump:** Positive displacement 3-chamber design.
- **Flow Rate:** 3.0 gallons per minute (GPM).
- **Pressure Switch:** Factory set to 45 Psi.
- **Max Amps:** 6.74A.
- **Self-Priming:** Capable of self-priming up to 9.8 feet (3m).
- **Dry Run Protection:** Can run dry without damage.
- **Thermal Protection:** Built-in temperature control protector with automatic restart feature to prevent overload.
- **Quiet Operation:** Designed for smooth and silent operation.
- **Certifications:** CE certified.

SPECIFICATIONS

Specification	Detail
Brand	DC HOUSE
Model	33-Series
Voltage	12 Volts DC
Maximum Flow Rate	3.0 GPM (gallons per minute)
Pressure Switch Setting	45 Psi (adjustable range 40-80 Psi)
Maximum Amperage	6.74 Amps
Self-Priming Height	9.8 feet (3 meters)
Material	Viton
Color	Black
Dimensions (Approx.)	5.1" (130mm) x 7.98" (202.5mm) x 3.94" (100mm)
Inlet/Outlet Thread Size	1/2 inch (12.7mm)
Certifications	CE

Note: Dimensions are approximate and based on product images.

SETUP AND INSTALLATION

Follow these steps for proper installation of your DC HOUSE 33-Series water pump.

1. Mounting the Pump

- Mount the pump in a dry, well-ventilated area.
- Use the anti-vibration rubber feet to reduce noise and vibration.
- Ensure the pump is mounted securely to a stable surface.

2. Plumbing Connections

The pump features external threads for easy connection to inlet and outlet hoses. Ensure all connections are tight to prevent leaks.

HIGH FLOW UP TO 3.0GPM



Image: The DC HOUSE 33-Series pump demonstrating high flow up to 3.0 GPM. A strainer is visible on the inlet side, ensuring clean water enters the pump.



Image: Detailed view of the pump highlighting key features: external thread fittings for inlet/outlet, built-in temperature control protector, quiet motor, adjustable pressure switch (40-80 PSI), and anti-vibration rubber feet.

3. Electrical Connections

- Connect the pump to a 12V DC power source. Observe correct polarity (positive to positive, negative to negative).
- Ensure all wiring is properly sized for the pump's maximum amperage (6.74A) and protected with an appropriate fuse.

4. RV Installation Diagram

RV INSTALLATION DIAGRAM

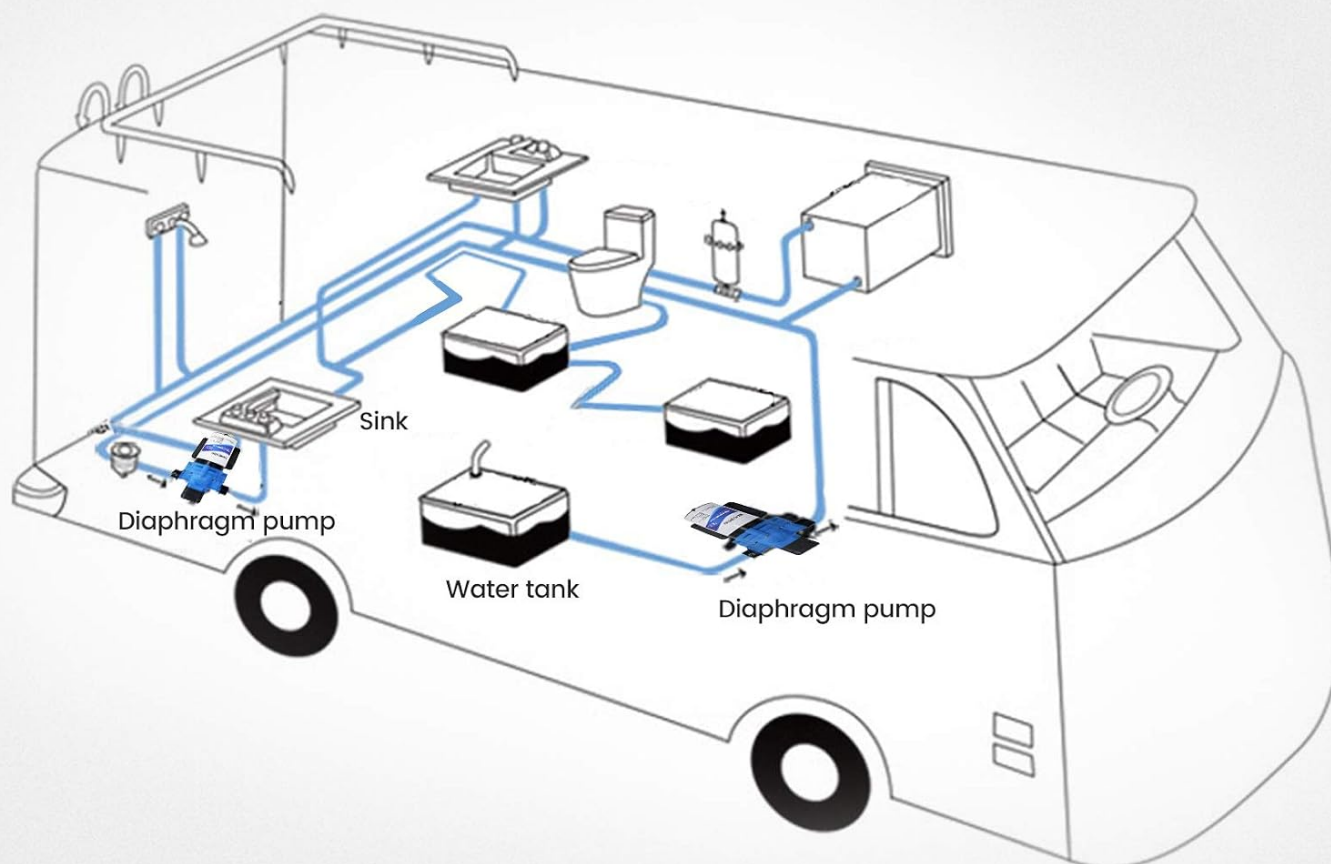


Image: An RV installation diagram illustrating how the diaphragm pump connects to the water tank, sink, and other water fixtures within an RV system.

OPERATING INSTRUCTIONS

Once installed, the pump operates automatically based on water demand and pressure.

- **Initial Start-up:** Ensure the water source is available and all connections are secure. Turn on the 12V DC power supply to the pump.
- **Self-Priming:** The pump will self-prime. It may take a few moments for water to flow consistently and for air to be purged from the system.
- **Automatic Operation:** The built-in pressure switch will turn the pump on when water is demanded (e.g., opening a faucet) and turn it off when the system reaches the set pressure (45 Psi) and water flow stops.
- **Pressure Adjustment:** The pressure switch is adjustable within a range of 40 Psi to 80 Psi. Adjustments should only be made by qualified personnel.
- **Dry Running:** The pump is designed to run dry without damage, but continuous dry running should be avoided to conserve

energy and extend pump life.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump.

- **Filter/Strainer Cleaning:** If an inlet strainer is used, regularly inspect and clean it to prevent debris from entering the pump.
- **Connection Checks:** Periodically check all plumbing and electrical connections for tightness and signs of wear or corrosion.
- **Winterization:** In freezing conditions, drain all water from the pump and system or use RV antifreeze to prevent damage.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and debris.

TROUBLESHOOTING

This section addresses common issues you might encounter with your water pump.

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse; Loose wiring; Motor fault.	Check 12V power supply; Replace fuse; Secure connections; Contact support if motor fault suspected.
Low flow or no water	Clogged inlet strainer; Air in system; Kinked hose; Low water supply.	Clean strainer; Bleed air from system; Straighten hoses; Ensure adequate water supply.
Pump cycles on and off rapidly	Leak in plumbing; Pressure switch setting too low; Accumulator tank (if present) issue.	Check for leaks and repair; Adjust pressure switch (if qualified); Inspect accumulator tank.
Excessive noise/vibration	Loose mounting; Air in system; Debris in pump head.	Secure mounting; Bleed air; Inspect pump head for obstructions.
Water leak from pump	Loose fittings; Damaged diaphragm/seals.	Tighten all fittings; Contact support for replacement parts or service.

APPLICATIONS

The DC HOUSE 33-Series pump is suitable for various applications:

- RV and Camper water systems
- Marine and Yacht fresh water supply
- Caravan water systems
- Garden sprinklers and irrigation
- Sprayer applications (fertilizers, insect sprays)

WIDELY APPLICATIONS

Mainly used for RV, yacht, Agricultural irrigation and Faucet



Image: Examples of wide applications for the DC HOUSE water pump, including RVs, yachts, agricultural irrigation, and general faucet use.

WARRANTY AND SUPPORT

This product comes with a **4-year warranty**.

For technical support or any questions, please contact our professional support team. We aim to respond within 24 hours.

Contact information is typically provided with your purchase or on the manufacturer's official website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question