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KENCIT DPHC-T33A-12V

KENCIT RV Water System Accumulator Tank System User Manual

Model: DPHC-T33A-12V

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your KENCIT RV Water System Accumulator Tank System. This fully assembled pressure set is designed to simplify the installation of water pressure systems in recreational vehicles, ensuring a consistent and efficient water supply.

The system integrates a 3-chamber diaphragm pump, a strainer, and a pre-pressurized accumulator tank, complete with quick-connect electrical connections. It is capable of serving 3 or more 1/2" (13mm) outlets.

Key Benefits:

- Reduces pump cycling, extending pump life.
- Reduces strain on plumbing and the vehicle's battery.
- Minimizes noise from the water system.
- Allows for improved control of hot water temperature.
- Designed to run dry without damage.
- Self-priming capability.
- Flexible installation: can be mounted vertically or horizontally.



Figure 1: KENCIT RV Water System Accumulator Tank System, showing the pump and accumulator tank mounted on a black base.

PACKAGE CONTENTS

Before beginning installation, please verify that all components listed below are present in your package.

PACKAGE INCLUDES



Figure 2: Image displaying the package contents, including the main unit, hose clamps, PTFE tape, 1/2" hose barb adapters, 1/2" MNPT adapter, 1/2" hose barb elbow, and a 50 mesh inlet strainer.

- KENCIT RV Water System (Pump and Accumulator Tank Assembly)
- 1/2" Hose Barb Adapters (Quantity: 2)
- 50 Mesh Inlet Strainer
- Hose Clamps (Quantity: 2)
- PTFE Tape
- 1/2" MNPT Adapter
- 1/2" Hose Barb Elbow

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your RV water system. Please follow these guidelines carefully.

1. Mounting the Unit:

- The unit can be installed either vertically or horizontally. Choose a location that is easily accessible for maintenance and protected from extreme temperatures.
- Ensure the mounting surface is stable and secure to prevent vibration.
- Refer to the dimension diagram for space requirements.

DIMENSION

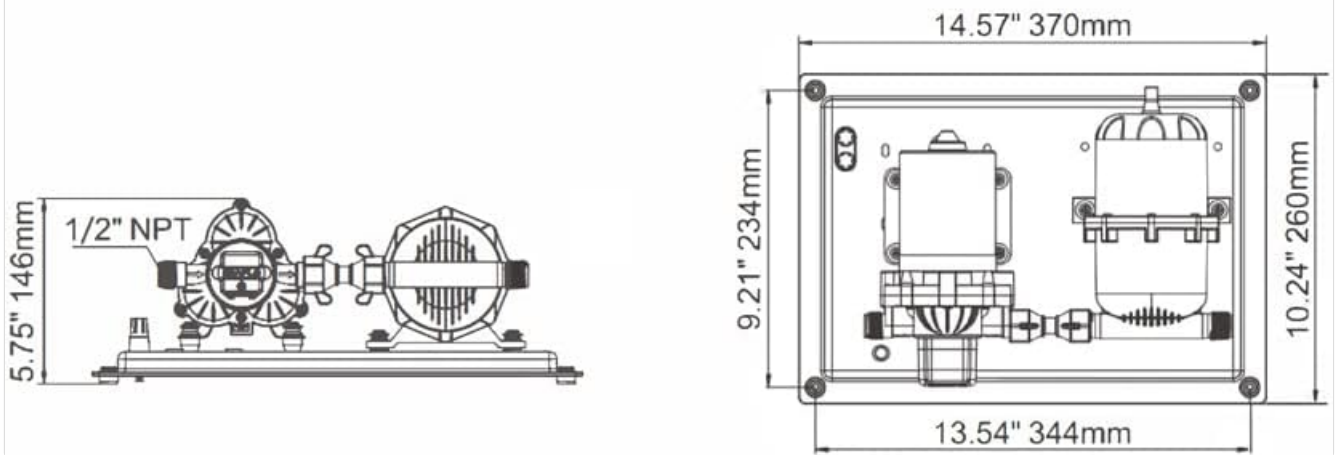


Figure 3: Dimensional drawing of the KENCIT RV Water System, showing measurements in inches and millimeters for both side and top views.

2. Plumbing Connections:

- The system features 1/2" Barb ports. Use the provided adapters and PTFE tape for secure, leak-free connections.
- Install the 50 Mesh Inlet Strainer on the inlet side of the pump to protect it from debris.
- Ensure all plumbing connections are tight to prevent leaks and maintain system pressure.



Figure 4: Angled view of the KENCIT RV Water System, highlighting the clear 50 mesh inlet strainer connected to the pump.

3. Electrical Connections:

- The pump operates on 12V DC power. Connect the system to a suitable 12V DC power source.
- Utilize the quick-connect electrical connections for ease of installation.
- Ensure correct polarity (+ and -) to avoid damage to the pump.
- It is recommended to install an appropriate fuse (not included) in the positive power line to protect the circuit.

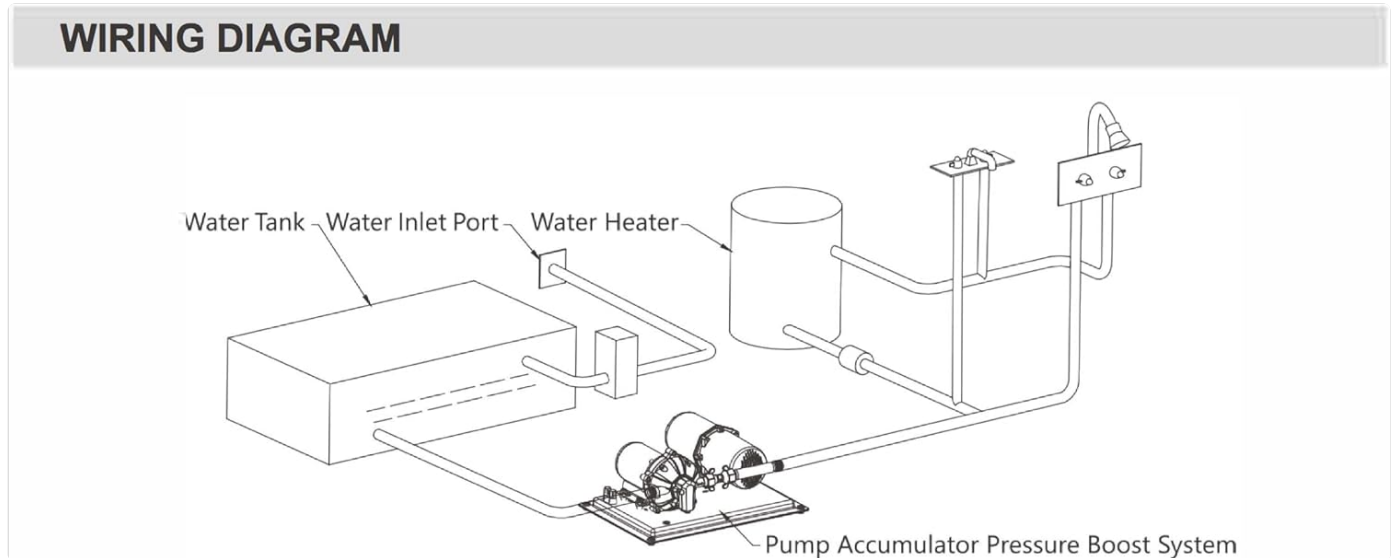


Figure 5: Schematic wiring diagram illustrating the connection of the Pump Accumulator Pressure Boost System to a water tank, water inlet port, and water heater, leading to faucets.

OPERATION

Once installed, the KENCIT RV Water System is designed for automatic operation.

- **Initial Priming:** After installation, open all faucets in your RV to allow air to escape the system. Turn on the pump. The pump is self-priming and will draw water from your tank. Once water flows steadily from all faucets, close them.
- **Automatic Operation:** The system is equipped with an automatic pressure switch. When a faucet is opened, the pressure in the system drops, activating the pump. When the faucet is closed, the pressure builds up, and the pump automatically shuts off.
- **Accumulator Tank Function:** The integrated accumulator tank helps to smooth water flow and reduce pump cycling, especially during low water demand. This prolongs the life of the pump and provides a more consistent water pressure.
- **Dry Run Capability:** The pump is designed to run dry without sustaining damage, offering protection in case your water tank runs empty.

MAINTENANCE

Regular maintenance ensures the longevity and efficient performance of your water system.

- **Strainer Cleaning:** Periodically inspect and clean the 50 mesh inlet strainer to prevent debris from entering the pump and affecting its performance.
- **Leak Inspection:** Regularly check all plumbing connections for any signs of leaks. Tighten connections as necessary.
- **Winterization:** If operating in freezing temperatures, ensure the system is properly drained and winterized according to standard RV plumbing practices to prevent damage from freezing water.

- **Accumulator Tank Pressure:** While the tank is pre-pressurized, it's good practice to occasionally check its air pressure (usually via a Schrader valve, if accessible) to ensure it's within specifications, though this is typically not required frequently.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your water system.

Problem	Possible Cause	Solution
Pump runs continuously or cycles frequently.	Leak in plumbing system. Low accumulator tank pressure. Debris in pressure switch.	Check all connections and fixtures for leaks. Consult a professional if accumulator tank pressure is suspected. Clean or replace pressure switch if necessary.
No water flow or low pressure.	Empty water tank. Clogged inlet strainer. Air in the system. Kinked hose or blocked line. Power supply issue.	Refill water tank. Clean the 50 mesh inlet strainer. Open all faucets to bleed air. Inspect hoses and lines for obstructions. Check 12V DC power connection and fuse.
Pump is noisy.	Vibration from mounting. Air in the system. Debris in pump.	Ensure unit is securely mounted. Bleed air from the system. Inspect pump for foreign objects (professional service recommended).

SPECIFICATIONS

Detailed technical specifications for the KENCIT RV Water System Accumulator Tank System.

Attribute	Value
Brand	KENCIT
Model Number	DPHC-T33A-12V
Ports	1/2" Barb
Pump Voltage	12V DC
Pump Flow Rate	4.0 GPM (15.0 LPM)
Pump Shut-Off Pressure	45 PSI
Pump Max Amperage	9.0 A
Accumulator Tank Size	0.75L (0.2 Gallons)
Material	Stainless Steel (components)

Attribute	Value
Style	Diaphragm
Item Weight	3.38 Kilograms (7.43 pounds)
Package Dimensions	15.51 x 11.65 x 7.32 inches
Included Components	1/2" Hose Barb Adapters, 50 Mesh Inlet Strainer, Pump

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For technical support, please refer to the contact information provided with your purchase.