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› [Kohree 110V AC Water Pressure Pump \(Model KR2181\) Instruction Manual](#)

Kohree KR2181

Kohree 110V AC Water Pressure Pump Instruction Manual

Model: KR2181

1. PRODUCT OVERVIEW

The Kohree 110V AC Water Pressure Pump is an on-demand, self-priming 3-chamber diaphragm pump designed for consistent fresh water delivery. It provides a reliable 4.0 GPM water flow at 50 PSI, minimizing cycling and ensuring steady pressure. This pump is equipped with a smart pressure switch that activates on water demand and stops when not needed, offering hands-free operation. It features thermal overload protection to prevent damage from dry running and ensure motor longevity. Its robust construction and quiet operation make it suitable for various applications including RVs, campers, boats, yachts, irrigation, garden use, and household water supply.

POWERFUL 110V WATER PRESSURE PUMP



Image 1.1: Overview of the Kohree 110V AC Water Pressure Pump, highlighting its key specifications.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (110V AC). Always disconnect power before performing any maintenance or installation. Use a properly grounded outlet.
- **Water Safety:** Do not pump flammable liquids. Do not operate the pump in an explosive atmosphere. Ensure all

connections are watertight to prevent leaks and electrical hazards.

- **Installation:** Install the pump in a dry, well-ventilated area. Protect the pump from freezing temperatures.
- **Operation:** Do not run the pump dry for extended periods, as this can cause damage. The pump includes thermal overload protection, but continuous dry running should be avoided.
- **Children and Pets:** Keep children and pets away from the pump during operation.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation.

- 110V AC Water Pressure Pump
- 4 Hose Adapters (various types)
- 2 Garden Hose Adapters
- 2 Hose Clamps
- 1 Strainer
- Teflon Tape

PRODUCT SIZE

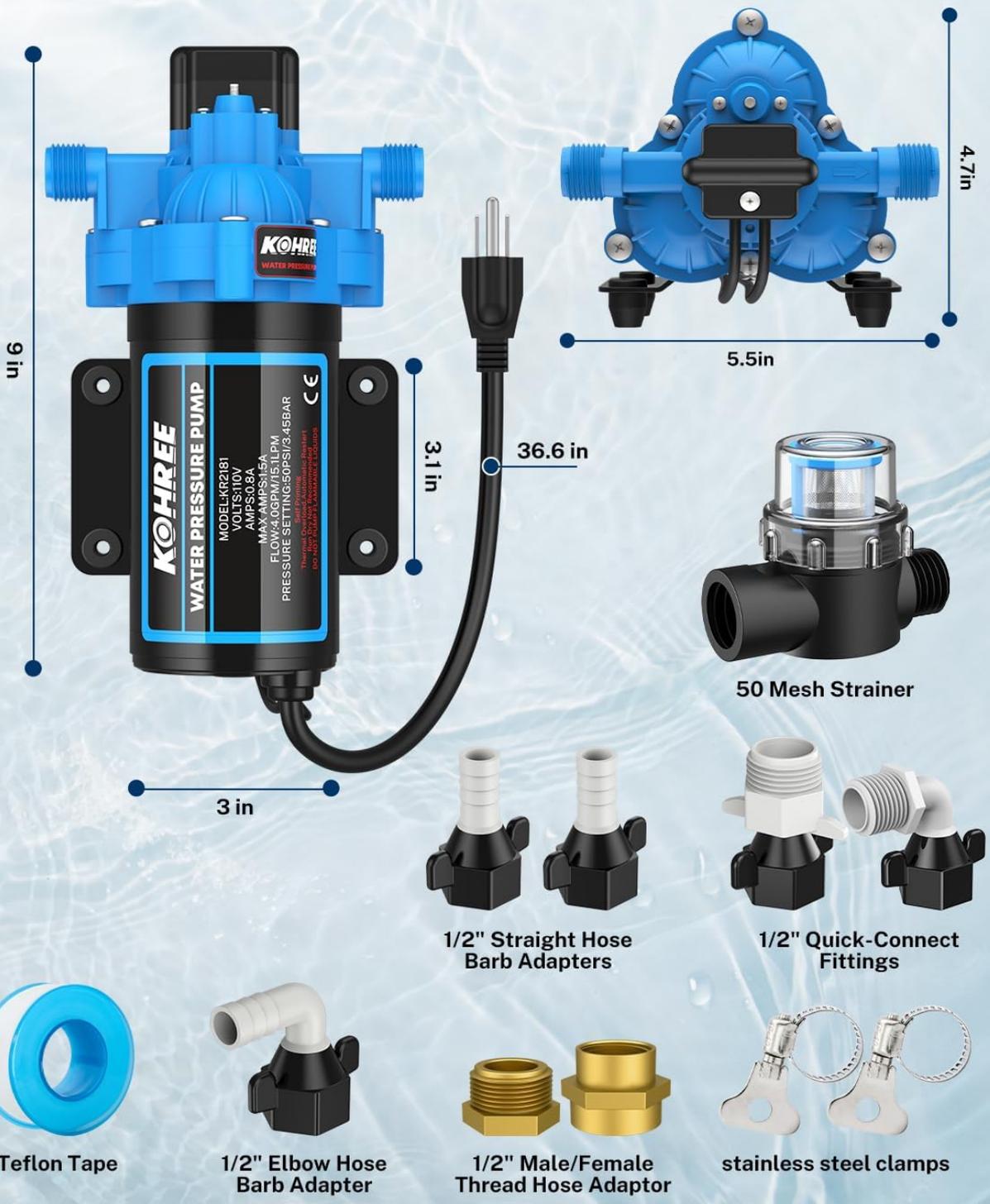


Image 3.1: All components included with the Kohree water pressure pump.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your water pressure pump.

- 1. Mounting the Pump:** Securely mount the pump in a stable, dry location using the integrated pump bracket. Ensure there is adequate space for ventilation and access for maintenance. The pump features anti-vibration rubber feet for quiet operation.
- 2. Connecting the Inlet:** The pump's inlet port is where water enters. Apply Teflon tape to the threads of the inlet

adapter. Connect the provided strainer to the inlet port. This filter is crucial to prevent debris from entering and damaging the pump.

3. **Connecting the Outlet:** The pump's outlet port is where pressurized water exits. Apply Teflon tape to the threads of the desired outlet adapter (e.g., straight hose barb, quick-connect fitting, or threaded adapter). Connect your water equipment (e.g., hose, faucet) to this outlet.
4. **Hose Connections:** Use the provided hose clamps to secure all hose connections, ensuring a leak-free seal.
5. **Electrical Connection:** Plug the pump into a standard 110V AC grounded electrical outlet. Ensure the power cord is not pinched or damaged.
6. **Priming the Pump:** Before first use, ensure the pump is primed. Open a faucet or outlet downstream to allow air to escape the system. The pump is self-priming up to 9.8 vertical feet.

Your browser does not support the video tag. This video demonstrates the installation process of the Kohree 110V AC Water Pressure Pump, including connecting the strainer, adapters, and hoses for a leak-free setup.



Video 4.1: Installation Guide for the Kohree Water Pressure Pump.

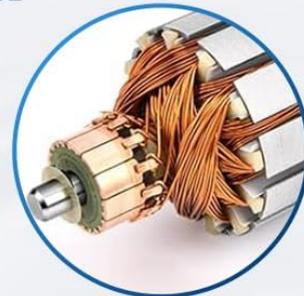
Heavy-Duty Materials & Construction



Sealing material
EPDM/Viton



Shell material
Nylon/Polypropylene



Motor
(Copper Motor)



Wires
(Double Core Wire)



On Demand Pressure Switch
(Clockwise to increase, counterclockwise to decrease)



Pump Bracket
(Anti-vibration rubber)



110V/115V AC Standard Plug
(20FT power cord)



Image 4.2: Components and materials of the pump, illustrating its heavy-duty construction.

5. OPERATING INSTRUCTIONS

The Kohree water pressure pump is designed for automatic, on-demand operation.

- 1. Initial Start-up:** After installation and ensuring all connections are secure, plug in the pump. Open a water fixture (e.g., faucet) to allow water to flow and air to purge from the system. The pump will automatically start when pressure drops and stop when pressure is restored.
- 2. Pressure Switch Adjustment:** The pump features an adjustable pressure switch. To increase pressure, turn the

adjustment screw clockwise. To decrease pressure, turn it counter-clockwise. Make small adjustments (approximately 15 degrees each time) and test the water flow. The adjustable PSI range is 40–70 PSI.

- 3. Continuous Operation:** The pump is designed for intermittent duty. While it has thermal overload protection, avoid running it continuously for extended periods without water flow.
- 4. Quiet Operation:** This pump is engineered for low noise operation (typically below 50dB), making it suitable for residential and recreational vehicle use.

The image is a collage of three panels, each with a blue header and a KOHREE logo. The top panel, titled "Supports multiple water points with high water pressure", shows a person showering, a person washing a cabbage in a kitchen sink, and a close-up of a showerhead. A grey box at the bottom right of this panel is labeled "Low and unstable water flow". The middle panel, titled "Quiet Operation", shows a child sleeping in a bed with a teddy bear and a woman covering her ears in a kitchen. A grey box at the bottom right of this panel is labeled "Loud Noise". The bottom panel, titled "Metal base with rubber feet", shows a blue pump unit on a black metal base with three rubber feet. A grey box at the bottom right of this panel is labeled "Plastic base".

Image 5.1: Demonstrates the pump's ability to support multiple water points with high pressure and its quiet operation.

Powerful 110V Water Pump for Living



Image 5.2: Visual representation of the pump's capacity to supply multiple fixtures in a living environment.

6. MAINTENANCE

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

- **Strainer Cleaning:** Periodically inspect and clean the inlet strainer to remove any accumulated debris. A clogged strainer can reduce pump performance and lead to damage.
- **Winterization:** If the pump is used in an environment where temperatures drop below freezing, it must be drained completely to prevent damage from ice expansion. Disconnect hoses and allow all water to exit the pump.

- **Leak Inspection:** Regularly check all connections for leaks. Tighten hose clamps or re-apply Teflon tape as needed.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and dust. Do not use harsh chemicals for cleaning.



Image 6.1: The removable strainer for easy cleaning.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty wiring; pressure switch issue.	Check power connection and outlet; reset breaker; inspect wiring; check pressure switch settings.
Low flow or pressure	Clogged strainer; air in system; kinked hose; worn pump components.	Clean strainer; bleed air from system; straighten hoses; inspect pump for wear.
Pump runs continuously or cycles rapidly	Leak in system; pressure switch set too low; air in system.	Check for leaks in plumbing; adjust pressure switch; bleed air from system.
Excessive noise	Air in system; loose mounting; debris in pump.	Bleed air; ensure pump is securely mounted; check for debris in pump head.

8. SPECIFICATIONS

Technical details for the Kohree 110V AC Water Pressure Pump.

Feature	Detail
Brand	Kohree
Model Number	KR2181
Power Source	AC
Voltage	110 Volts
Maximum Flow Rate	4 Gallons Per Minute (GPM)
Pressure	50 PSI (Adjustable 40-70 PSI)
Self-Priming Height	Up to 9.8 vertical feet

Feature	Detail
Included Components	110V AC water pump, 4 hose adapters, 2 garden hose adapters, 2 hose clamps, 1 strainer, Teflon tape

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Kohree website. Keep your purchase receipt as proof of purchase for any warranty claims.