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> PROZRTED HBS24-12Z Faucet Control Smart Instant Hot Water Recirculating Pump System User Manual

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Model: HBS24-12Z

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your PROZRTED HBS24-12Z Faucet Control Smart Instant Hot Water Recirculating Pump System. This system is designed to provide instant hot water at your faucet, reducing water waste and energy consumption. It is compatible with various water heater types, including tanked and tankless systems.

The HBS24-12Z model is designed for faucet-activated operation and does not include a remote controller in this package. Optional remote controllers can be purchased separately for enhanced control.

2. SAFETY INFORMATION

Your safety is paramount. Please read and understand all safety instructions before installation and operation.

- **NSF Certified:** This Smart Instant Hot Water Recirculating Pump is NSF certified, ensuring it meets North America's most authorized health and safety standards for drinking water.
- **Lead-Free Materials:** The pump features a lead-free copper body, making it safe for drinking water applications.
- **Electrical Safety:** Always disconnect electrical power to the pump area before installation or maintenance. Ensure proper grounding.
- **Water Pressure:** Do not exceed the maximum operating pressure of 145 PSI (10 bar).
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified plumber or electrician.

NSF/ANSI/CAN 61 Certified

NSF The most authorized health and safety organization in North America. Globally recognized organization for public health standards.

NSF certified means our pumps have been tested by one of today's most respected independent product testing organization



Image: NSF/ANSI/CAN 61 Certified logo and certificate of compliance, indicating the pump system meets health and safety standards for drinking water. The image also highlights lead-free and BPA-free components.

3. PACKAGE CONTENTS

Please verify that all components are present before beginning installation:

- PROZRTED HBS24-12Z Recirculating Pump
- Power Adapter (24V DC)
- Flexible Hoses (2x, 15-inch length, 3/8" NPT)
- Brass Tees (2x, 1/2" NPT)
- Brass Check Valve (1x, 1/2" NPT)
- Washers/Gaskets (Black for connection hose, Transparent plastic for brass tee)
- Mounting Hardware (Brackets, Screws, Wall Anchors)



Image: The PROZRTED HBS24-12Z recirculating pump, along with its power adapter, two flexible hoses, two brass tees, a brass check valve, various washers, and mounting hardware.

4. INSTALLATION

4.1 Tools Needed

- Wrench
- Screwdriver
- Power source (smart socket if applicable)
- Mounting hardware (included)

4.2 Safety First

1. Turn off the main water supply to your home.

2. Disconnect any electrical power connected to the pump installation area.

4.3 Connecting the Pump

The HBS24-12Z pump is designed to be installed under the farthest faucet from the water heater in each loop. The pump should be oriented so its drive shaft is horizontal for optimal performance. Refer to the diagrams below for visual guidance.

Pump Inlet (Hot Water Side)

1. Disconnect the hot water angle valve from the water pipe.
2. Connect one of the brass tees to the pump's hot water inlet (marked).
3. Ensure the rubber gasket is correctly placed for a watertight seal.
4. Connect the water line to the brass tee.

Pump Outlet (Cold Water Side)

1. Repeat the same steps for the cold water side: disconnect the cold water angle valve, install the second brass tee, and connect the water line.
2. Ensure the pump shaft is horizontal.
3. Connect the power cord to the pump and then to a power outlet.

Quick Guide: Water Pump Installation

1. Preparation

Tools Needed:

- ◆ Wrench
- ◆ Screwdriver

Materials Needed:

- ◆ Water pump
- ◆ Power source (smart socket if applicable)
- ◆ Mounting hardware

2. Safety First

- ◆ Turn off the main water supply.
- ◆ Disconnect any electrical power connected to the pump area.

3. Connecting the Pump

PUMP Inlet (Hot water)



Disconnect the hot water angle valve from the water pipe



Connect the brass tees to the pump



Make sure the rubber gasket installed correctly



Connect the water line to the brass tee

PUMP outlet (Cold water)



Repeat the same step, install the cold water pipe, angle valve and tee



Install the water pump support plate



Ensure the pump shaft is horizontal



Connect the power cord

How to operate the pump

- ◆ Slowly turn on the main water supply.
- ◆ Check for leaks at all connections.
- ◆ Test the pump in different modes

Switch Mode (Press and hold the icon  for 2 seconds or more to switch modes)



Smart constant temperature mode (orange light)



Energy-saving constant temperature mode (green light)



Manual mode (no light).

Pair with the pump

Unplug the pump and plug it back. After that, press any button in the control briefly within 5 seconds. If the pump is installed in the warm area, you may need to set higher temperature on the pump and control to complete the code matching.

Switch Pump Speed (Press the icon  briefly to switch speeds)

The product is divided into three gears. When running, the gear is indicated by the rotating speed of the light bar. The faster the rotating speed, the higher the gear.

Image: A quick guide illustrating the preparation, safety, and connection steps for installing the water pump, including visual cues for connecting to hot and cold water lines.

HOW TO INSTALL

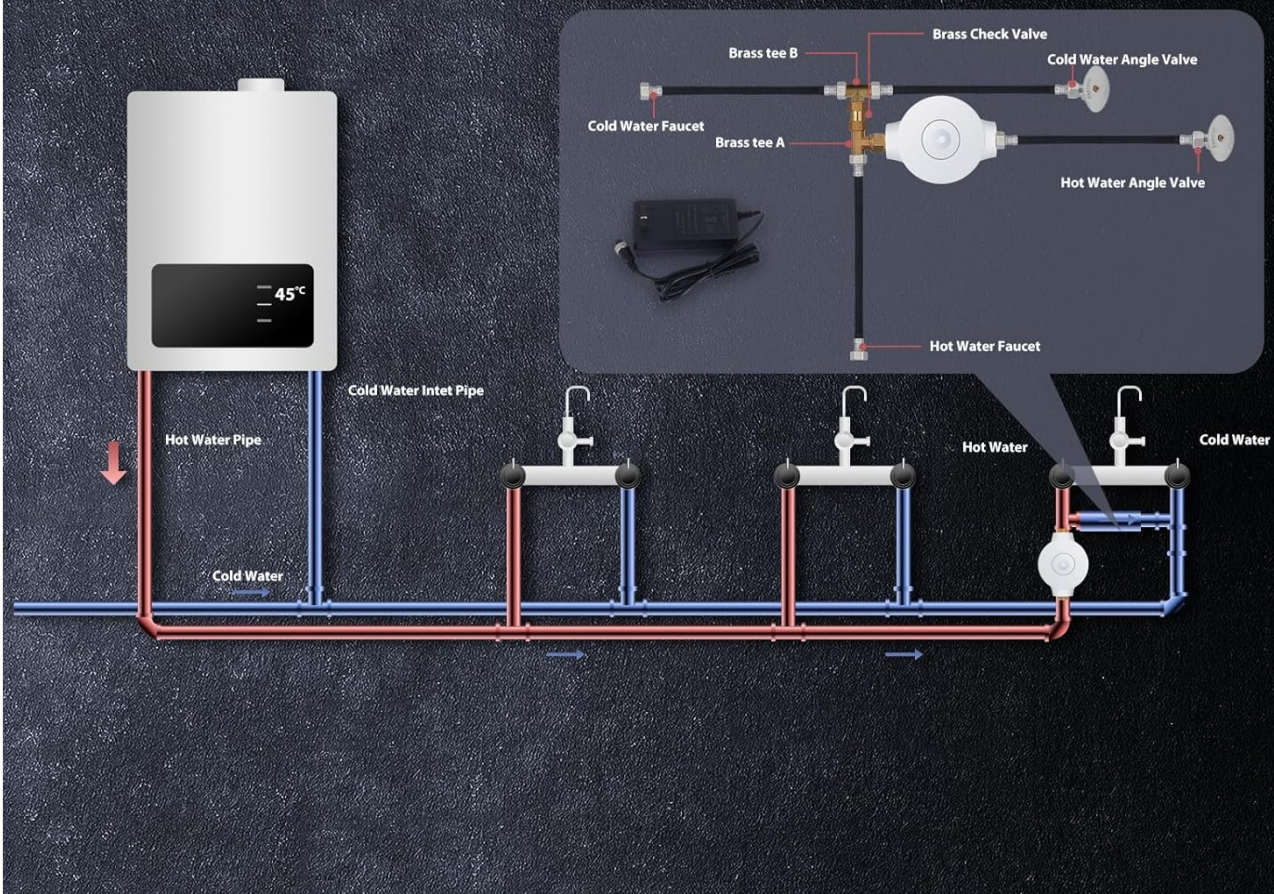


Image: A comprehensive diagram showing how to install the recirculating pump in a typical plumbing system, connecting it to a water heater, hot water faucet, and cold water faucet using brass tees and a check valve.

4.4 Post-Installation Checks

- Slowly turn on the main water supply.
- Check for leaks at all connections. Tighten if necessary.
- Test the pump in different modes (see Section 5. Operation).

5. OPERATION

The PROZRTED HBS24-12Z pump offers three operating modes and adjustable speed settings.

5.1 Switching Modes

To switch between modes, press and hold the icon on the pump for 2 seconds or more.

- **Smart Mode (Orange Light):** Instant hot water is always available. The pump intelligently maintains hot water circulation.
- **Energy-Saving Mode (Green Light):** If hot water is not used for a period, the pump automatically decreases the temperature set point to save energy.
- **Manual Mode (No Light):** This is the most energy-saving mode. The pump only activates when manually triggered.

5.2 Activating the Pump (Manual Mode)

In Manual Mode, or to trigger instant hot water in other modes:

- Turn on the hot water faucet for 2 seconds and then turn it off. The pump will activate, circulating water until the set temperature is reached. Instant hot water will be available in a few minutes.

5.3 Temperature Settings

The pump has a built-in check valve and default temperature settings:

- The pump activates when the water temperature in the pump is below 33 °C (91.4°F), pushing cold water back to the water heater.
- The pump shuts off automatically when the temperature reaches 38 °C (100.4°F).

For models with a remote controller (not included with HBS24-12Z), higher or lower water temperatures (from 32 °C to 42 °C) can be set.

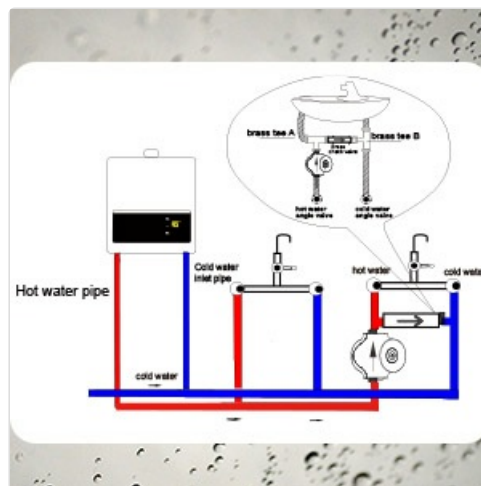


Image: A visual representation of the pump's automatic temperature control, showing it turns on at 33°C (91.4°F) and off at 38°C (100.4°F).

5.4 Running Speed

The product provides three running speeds. Briefly press the icon to switch speeds. When running, the gear is indicated by the rotating speed of the light bar. A faster rotating speed indicates a higher gear.

5.5 Smart Memory Function

The pump remembers the last settings when it was powered off, ensuring consistent operation upon restart.

6. MAINTENANCE

The PROZRTED HBS24-12Z pump is designed to be maintenance-free. However, regular checks can ensure optimal performance and longevity:

- **Leak Checks:** Periodically inspect all connections for any signs of leaks. Address any leaks promptly to prevent water damage.
- **Power Cord:** Ensure the power cord is not damaged or frayed.
- **Cleanliness:** Keep the area around the pump clean and free from debris to prevent obstruction of airflow or components.

7. TROUBLESHOOTING

If you encounter issues with your recirculating pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump not running / No hot water	No power; Water supply off; Incorrect mode; Faucet not activated correctly.	Check power connection; Ensure water supply is on; Switch to desired mode; Turn hot water faucet on for 2 seconds.
Loud beep and orange blinking light	Freeze protection or impeller jam warning.	Ensure ambient temperature is above freezing. Inspect impeller for obstructions. If problem persists, contact support.
Hot water takes too long to arrive	Pump in Energy-Saving or Manual mode; Low running speed.	Switch to Smart Mode; Increase running speed; Ensure faucet activation is performed correctly.
Warm water from cold faucet	Normal operation for non-dedicated return line systems.	This is an inherent characteristic of this type of system. Consider using Manual mode or a smart plug to limit pump operation to specific times.
Water leaks at connections	Loose connections; Damaged washers.	Tighten all connections. Replace washers if damaged.

8. SPECIFICATIONS

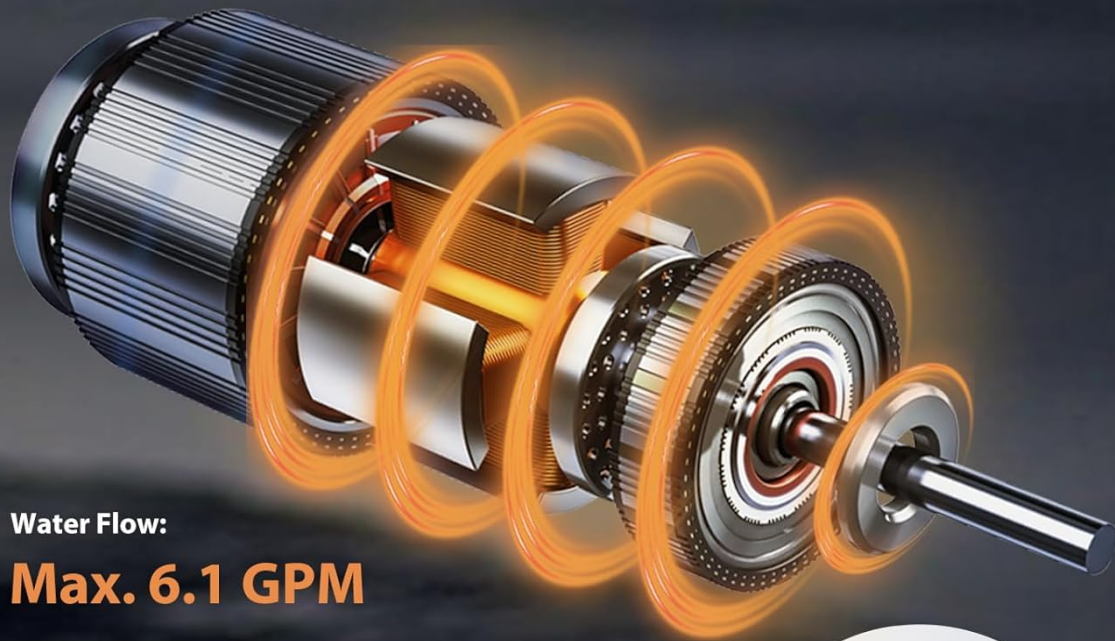
Feature	Specification
Model	HBS24-12Z
Brand	PROZRTED
Material	Copper
Product Dimensions (L x W x H)	5.8" x 3.7" x 4.4"
Power Source	Corded Electric
Voltage	24 Volts

Feature	Specification
Maximum Flow Rate	6.1 Gallons Per Minute (366 GPH)
Maximum Lifting Height	39.3 Feet
Maximum Pressure	145 PSI (10 bar)
Pipe Size	1/2" NPT
Cord Length	10 ft
Certifications	NSF Certified



Image: Detailed product specifications including dimensions (5.8"L x 3.7"W x 4.4"H) and connection types (1/2" NPT for pump, 3/8" NPT for hoses).

UP TO 10% OF YOUR WATER BILL WILL BE SAVED



Water Flow:

Max. 6.1 GPM

Head Lift:

Max. 39.3 ft

Max. Pressure:

145PSI(10bar)

Brush Less

24v DC motor



Image: An illustration of the pump's internal brushless 24V DC motor, highlighting its maximum flow rate of 6.1 GPM, maximum head lift of 39.3 ft, and maximum pressure of 145 PSI.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase optional accessories like remote controllers, please visit the official PROZRTED store or contact customer service.

PROZRTED Store: <https://www.amazon.com/stores/PROZRTED/page/848F9A2C-21BF-4253-BC41-7C65E31D66D5>