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> CRESTWAVE 110V 130W 13GPM 3-Speed Hot Water Recirculating Pump (1" FNPT) Instruction Manual

CRESTWAVE 1" FNPT

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1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your CRESTWAVE 110V 130W 13GPM 3-Speed Hot Water Recirculating Pump. This pump is designed to deliver instant hot water, reduce water waste, and improve energy efficiency in various heating systems. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

Important Safety Warnings:

- Keep this product out of reach of children to prevent potential burns from hot surfaces during operation.
- Do not touch the pump during operation, as surfaces may become hot.
- Ensure the pump is installed by a qualified individual in accordance with local plumbing and electrical codes.
- Always disconnect power before performing any maintenance or service.
- Plug the device into a switched socket for easy power control.
- Ensure proper grounding to prevent electrical shock.

3. PRODUCT OVERVIEW

The CRESTWAVE Hot Water Recirculating Pump is engineered for efficiency and durability, providing instant hot water for a comfortable home environment. It features a robust design and multiple speed settings to suit various household needs.

Key Features:

- **Instant Hot Water:** Delivers 13 GPM flow at 19.7 ft head, eliminating wait times for hot water.
- **Three Speed Settings:** Adjustable power (55W, 90W, 130W) to balance flow and energy consumption.

- **Durable Construction:** Made with cast iron, PES impeller, and ceramic bearings, designed to withstand corrosion, temperatures up to 230°F, and pressures up to 145 psi. Features a high-quality copper core motor for continuous, stable operation.
- **Quiet Operation:** Engineered for low noise levels, ensuring a peaceful home environment.
- **Wide Compatibility:** Suitable for solar water heaters, tankless systems, boilers, hydronic heating, radiant floor heating, pool & spa circulation, and domestic hot water systems.

3 Speeds for Most Needs



Image 3.1: The pump features three adjustable speed settings for optimized performance. Speed 1: 55W/9.5ft/7GPM, Speed 2: 65W/16.4ft/10GPM, Speed 3: 100W/19.7ft/13GPM.

Quiet Running

Enjoy every shower with low noise



10-20 dB

Whisper

25 dB

Our Pump

30 dB

Conversation

40 dB

Telephone Ring

>45 dB

Traffic

Image 3.3: The CRESTWAVE pump operates quietly, with noise levels as low as 25 dB, comparable to a whisper.

Video 3.1: This video demonstrates the CRESTWAVE Hot Water Recirculating Pump with its 3-speed control feature, highlighting its functionality and ease of use in various applications.

4. SPECIFICATIONS

Brand	CRESTWAVE
Model	1" FNPT (Red)
Material	Cast Iron, Plastic (PES Impeller)
Product Dimensions (L x W x H)	5.89" x 5.12" x 4.72"
Power Source	AC
Voltage	110 Volts

Power Consumption (3 Speeds)	55W / 90W / 130W
Maximum Flow Rate	13 Gallons Per Minute (GPM)
Maximum Lifting Height	19.7 Feet
Maximum Pressure	145 psi
Maximum Water Temperature	230°F
Included Components	2 x 1" FNPT flanges, 2 x Flange seals, 4 x Screws and Nuts Set, UL Cord 3.1ft

Product Specification

UL Cord 3.1ft
 2 x Flange seals
 4 x Screws and Nuts Set
 Manual x 1



2 x 1" FPT flanges

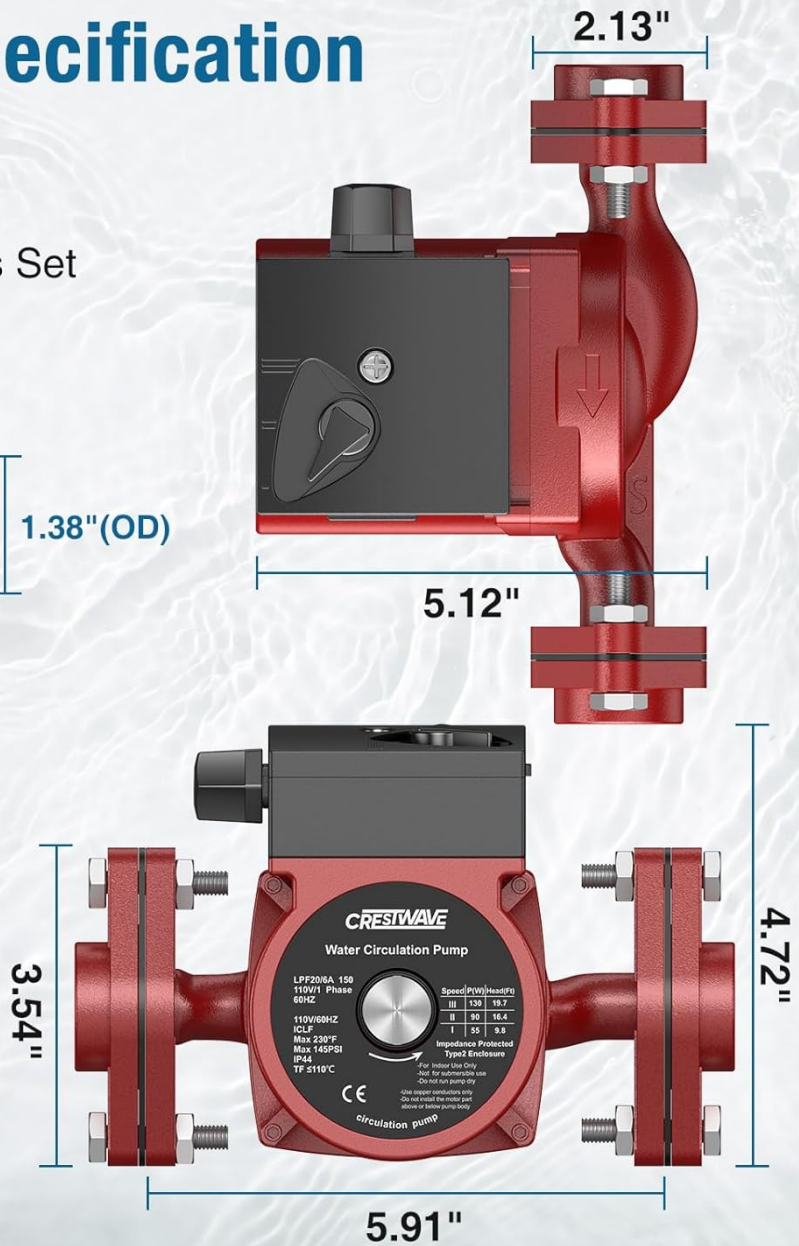


Image 4.1: Diagram illustrating the product dimensions and included components for the CRESTWAVE recirculating pump.

5. INSTALLATION GUIDE

This recirculating pump is designed for DIY-friendly installation. However, if you are unsure about any steps, consult a professional plumber.

Components Included:

- 1 x CRESTWAVE Recirculating Pump
- 2 x 1" FNPT Flanges
- 2 x Flange Seals (Gaskets)
- 4 x Screws and Nuts Set
- 1 x UL-listed 3.1FT Power Cord

Pre-Installation Steps:

1. Turn off the main water supply and drain the hot water system.
2. Ensure the installation area is clean, dry, and has adequate ventilation.
3. Gather necessary tools (wrenches, pipe sealant, etc.).

Installation Instructions:

1. **Positioning:** Install the pump in a location that allows for easy access for maintenance. The pump shaft must remain horizontal post-installation to ensure proper operation.
2. **Connect Flanges:** Attach the 1" FNPT flanges to the pump's inlet and outlet ports, ensuring the flange seals are correctly seated to prevent leaks. Secure with the provided screws and nuts.
3. **Plumbing Connection:** Connect the pump to your hot water system plumbing. Ensure the pump is installed according to the flow direction indicated on the pump body. Incorrect orientation can hinder performance.
4. **Electrical Connection:** Connect the UL-listed 3.1FT power cord to the pump and then plug it into a switched electrical outlet. Ensure the voltage matches the pump's requirements (110V).
5. **System Refill:** Slowly open the main water supply to refill the system. Check for any leaks at the connections.
6. **Air Bleeding:** Bleed any air from the system by opening hot water faucets until water flows smoothly.

Instant Hot Water at Every Faucet

Energy-Saving / Freeze Protection



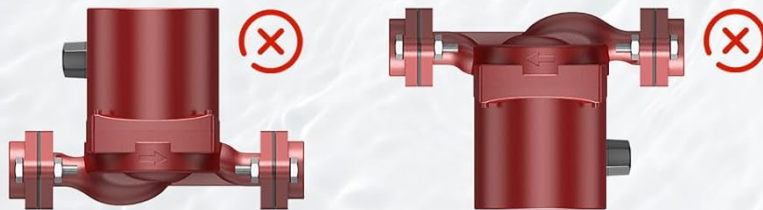
Image 5.1: Illustration of a typical domestic hot water recirculating system within a house, showing how the pump integrates to provide instant hot water at various faucets.

Reminder :

- Maintain Horizontal Shaft: Ensure pump shaft remains horizontal post-installation.



- Install the pump according to the flow direction to ensure proper orientation



- Do not touch pump during operation.
- Keep children away. Install out of reach
- Plug the device into a switched socket.

Image 5.2: Important reminders for installation, including maintaining a horizontal pump shaft and installing according to flow direction. Also includes safety warnings.

6. OPERATION

Once installed and the system is filled, the pump is ready for operation.

Speed Selection:

The CRESTWAVE recirculating pump features a selector switch for three speed settings:

- **Speed 1 (55W):** Provides 7 GPM flow at 9.5 ft head. Ideal for lower demand or energy-saving operation.
- **Speed 2 (90W):** Provides 10 GPM flow at 16.4 ft head. A balanced setting for moderate hot water demand.
- **Speed 3 (130W):** Provides 13 GPM flow at 19.7 ft head. For maximum hot water delivery and faster circulation.

Select the desired speed by rotating the switch on the pump's control panel. The pump will begin circulating water immediately upon power activation.

7. MAINTENANCE

The CRESTWAVE Hot Water Recirculating Pump is designed for maintenance-free operation, featuring durable components that do not require seal replacements or frequent repairs under normal operating conditions.

General Care:

- Periodically inspect the pump and connections for any signs of leaks or damage.
- Ensure the area around the pump remains clear of debris and obstructions to allow for proper ventilation.
- In regions with hard water, consider installing a water softener to prevent scale buildup in your plumbing system, which can affect pump efficiency over time.

8. TROUBLESHOOTING

If you encounter issues with your CRESTWAVE recirculating pump, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Pump does not start	No power supply; Faulty wiring; Motor obstruction.	Check power connection and circuit breaker. Verify wiring. Disconnect power and inspect impeller for obstructions.
No hot water circulation	Incorrect flow direction; Air in the system; Closed valves; Pump speed too low.	Verify pump orientation. Bleed air from the system. Ensure all necessary valves are open. Increase pump speed setting.
Reduced flow or pressure	Partial obstruction in pipes or pump; Low system pressure; Pump speed too low.	Check for blockages. Ensure adequate water supply pressure. Increase pump speed setting.
Unusual noise from pump	Air in the system; Loose mounting; Foreign object in pump.	Bleed air from the system. Tighten mounting bolts. Disconnect power and inspect pump for foreign objects.
Water leaks	Loose connections; Damaged seals.	Tighten all plumbing connections. Inspect flange seals for damage and replace if necessary.

If problems persist after attempting these solutions, please contact CRESTWAVE customer support.

9. WARRANTY AND SUPPORT

Warranty: The CRESTWAVE Hot Water Recirculating Pump is backed by a 1-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

Customer Support: For any questions, technical assistance, or warranty claims, please contact CRESTWAVE customer support. Our team is available 24/7 to assist you.

Please have your product model number (1" FNPT) and purchase information ready when contacting support.