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Hydrolevel VXT-24

Hydrolevel VXT-24 Water Feeder for Steam Boilers Instruction Manual

Model: VXT-24 | Part No. 45-026

1. INTRODUCTION

The Hydrolevel VXT-24 is a programmable water feeder designed for use with steam boilers, operating on 24 VAC power. This device is engineered to maintain optimal water levels in your boiler by initiating a feed cycle when make-up water is required, following a programmable delay. It features a digital feed counter to track water consumption and offers flexible settings for water level management.



Image 1.1: The Hydrolevel VXT-24 Water Feeder. This image displays the main unit, a blue-cased device with a digital readout showing '026'. It is installed on a light blue wall and connected to copper piping, illustrating a typical installation scenario.

2. SETUP AND INSTALLATION

Proper installation of the VXT-24 Water Feeder is crucial for its safe and efficient operation. It is highly recommended that installation be performed by a qualified professional.

2.1 Pre-Installation Checks

- Ensure the boiler system is depressurized and cooled before beginning installation.
- Verify that the power supply is 24 VAC.
- Confirm that all necessary fittings (1/2" Sweat) and tools are available.

2.2 Mounting the Unit

Mount the VXT-24 in an accessible location near the boiler, ensuring it is securely fastened to a stable surface. The unit should be positioned to allow for easy connection to the boiler's water supply lines.

2.3 Plumbing Connections

Connect the VXT-24 to the boiler's water supply using 1/2" sweat fittings. Ensure all connections are tight and leak-free. It is advisable to install isolation valves on both sides of the feeder to facilitate future maintenance without draining the entire system.

2.4 Electrical Connections

Wire the VXT-24 to a 24 VAC power source. Connect the feeder to the low water cut-off (LWCO) signal terminals as per the boiler manufacturer's instructions. This connection enables the VXT-24 to receive a feed signal when the boiler's water level drops below the set point.

3. OPERATING INSTRUCTIONS

The VXT-24 Water Feeder is designed for automated operation, but understanding its settings and features is essential for optimal performance.

3.1 Initial Power-Up

Once installed and wired, apply power to the unit. The digital display will illuminate, typically showing the current feed count or a default setting.

3.2 Programmable Feed Delay

Upon receiving a feed signal from the low water cut-off, the VXT-24 initiates a programmable delay period, adjustable from 30 seconds to 10 minutes. This delay allows condensate to return to the boiler, preventing unnecessary water additions. If the water level remains low after the delay, the feeder will begin its feed cycle.

3.3 Water Level Settings

The VXT-24 can be configured to feed water in two primary ways:

- **Feed to Low Water Cut-Off Level:** The unit will add water until the low water cut-off sensor is satisfied.
- **Feed 1 to 5 Gallons Above Cut-Off:** The unit can be set to add a specific volume of water (1 to 5 gallons) beyond the low water cut-off level, raising the water to the normal operating level. Consult the product manual for specific programming steps for this feature.

3.4 Digital Feed Counter

The integrated digital feed counter tracks all water fed into the boiler. This includes water added during automatic feed cycles and water added using the Manual Feed Button. This feature is useful for monitoring water consumption and identifying potential leaks in the system.

3.5 Manual Feed Button

A manual feed button is provided for situations where immediate water addition is required or for testing purposes. Pressing this button will initiate a feed cycle, adding water to the boiler. The amount added will be recorded by the digital feed counter.

4. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your VXT-24 Water Feeder.

- **Annual Inspection:** Annually inspect the unit for any signs of wear, corrosion, or leaks. Check all electrical and plumbing connections for tightness.
- **Cleaning:** Keep the exterior of the unit clean and free from dust and debris. Avoid using harsh chemicals that could damage the casing or display.
- **Sensor Check:** Periodically verify the proper functioning of the boiler's low water cut-off sensor, as the VXT-24 relies on its signal.
- **Water Quality:** Ensure the water supplied to the feeder is clean and free of excessive sediment, which could affect the feeder's internal components.

5. TROUBLESHOOTING

This section provides guidance for common issues you might encounter with your VXT-24 Water Feeder.

5.1 Feeder Not Adding Water

- **Check Power:** Ensure the unit is receiving 24 VAC power.
- **Verify LWCO Signal:** Confirm that the boiler's low water cut-off is sending a signal to the VXT-24. The boiler's water level might be sufficient, or the LWCO itself might be faulty.
- **Check Delay Setting:** The unit might be in its programmable delay period. Wait for the delay to expire.
- **Manual Feed Test:** Use the manual feed button to check if the feeder mechanism operates. If it does not, there may be an internal issue or a blockage in the water supply.

5.2 Continuous Water Feeding

- **Check LWCO:** A faulty low water cut-off sensor that continuously signals for water can cause continuous feeding.
- **Feeder Valve Malfunction:** The internal valve of the VXT-24 might be stuck open.
- **Wiring Issue:** A short circuit or incorrect wiring could be causing the feeder to operate continuously.

5.3 Incorrect Water Level

- **Review Settings:** Recheck the programmable water level settings (feed to LWCO or 1-5 gallons above).
- **LWCO Calibration:** Ensure the low water cut-off is correctly calibrated for your boiler.
- **Leaks:** A leak in the boiler system could lead to a consistently low water level, causing the feeder to operate more frequently than expected.

For persistent issues, contact Hydrolevel customer support or a qualified HVAC technician.

6. SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
| Model | VXT-24 |

| | |
|------------------------|--|
| Part Number | 45-026 |
| Brand | Hydrolevel |
| Power Source | 24 Volts AC |
| Power Consumption | 10 VA |
| Max. Fluid Temperature | 150° F |
| Flow Rate | 1 GPM |
| Fittings | 1/2" Sweat |
| Material | Brass, Stainless Steel |
| Special Features | Leakproof, Rust Resistant, Digital Feed Counter, Programmable Feed Delay |
| Product Dimensions | 6.1"L x 5.3"W x 6.9"H |
| Item Weight | 2.4 Pounds |
| Included Components | Water feeder unit |
| UPC | 642277450265 |
| Country of Origin | China |

7. WARRANTY INFORMATION

Hydrolevel products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Hydrolevel website. Keep your proof of purchase for warranty claims.

8. SUPPORT

If you require technical assistance, have questions about installation, operation, or troubleshooting that are not covered in this manual, please contact Hydrolevel customer support. Contact information can typically be found on the product packaging or the official Hydrolevel website.

When contacting support, please have your product model number (VXT-24) and part number (45-026) readily available.