Cherubim C350
Installation Considerations

Installation Requirements

System is to be used on potable water only. If there is a hot water heater, it must have a check valve to prevent hot water from entering the system. The user must ensure that the feed water to the system is microbiologically safe and meets the operating specifications outlined in the specifications on page 2. If your water analysis shows levels in excess of the maximums, contact Living Water for pretreatment recommendations.

Install the system where it will be protected from extreme heat, cold and precipitation. Always abide by local plumbing codes when installing the system.

Install bypass handle in position shown on system picture.

Plumbing

1. Connect a 3/8" line from the feed water supply to the bulkhead connector marked FEED.

NOTE: Back-flow preventer not required for installation.

2. Connect a 1/4" line from the connector located under the rear cartridge filter (membrane) to the drain.

3. Pressurized storage tank - Connect a 3/8" line from the bulkhead connector marked TANK to the pressurized storage tank.

4. Connect a 3/8" line from the bulkhead connector marked PRODUCT to the point-of-use dispensing device or faucet.

Initial Startup

1. The system will ship from the factory pre-flushed.

2. Check all tubing connections to ensure they are firmly seated. Check to see that all filter cartridges are fully in the locked position (clockwise) on their heads.

3. Turn on the water supply and check for leaks.

4. Plug the system into an electrical outlet. CAUTION: The pump will start.

5. Allow the system to run and the tank to fill.

6. When the tank is full, the pump will shut-off. The tank pressure can be monitored by checking the pressure gage on top of the unit. The pump will shut off at approximately 60-65psi, and turn on when water levels in the tank go below 40-45psi.

7. Within one to two hours after initial application of water pressure, check again for leaks especially at the tank, faucet tubing and connectors. These parts will not see full pressure until approximately 1 hour after the system is activated.

Initial Performance Verification

After initial flush, TDS data should be taken and compared to factory test data. Some deviations may occur due to differences in feed water TDS and temperature.

Total Dissolved Solids (TDS) Rejection Test - Use a TDS meter to measure the TDS in both the feed and product water.

Calculate percent rejection using the formula below. Rejection should be 85% or better.

$$(\text{Feed TDS} - \text{Product TDS}) / (\text{Feed TDS}) \times 100 = \% \text{ Rejection}$$

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Blending Valve Adjustment

1. After the system has been flushed, you may adjust the blending valve on top of the system to achieve the desired product water TDS.

2. Viewing the system from the top, turn the blending valve counter-clockwise (CCW) to open valve and increase TDS.

3. Turn the blending valve clockwise (CW) to close the valve and decrease TDS.

NOTE: There will be some delay in the TDS monitor response. The number of turns required will vary with the TDS of the incoming feed water and the desired product water TDS.

For best results, adjust the blending valve while the tank is filling.

Filter Cartridge Replacement

1. Close the feed water valve.

2. Close the tank shut-off valve.

3. Open the product water valve or dispensing faucet to relieve system pressure. Close when flow has stopped.

4. Unplug the system from the electrical supply.

5. Remove the old cartridge and discard.

6. Install the new cartridge, by lining up the slots on the top of the cartridge to the head. push up, then twist cartridge until it locks into place.

7. Turn on the feed water.

8. Plug in the system to the electrical supply.

9. Open product water valve or dispensing faucet. Close when water starts running.

10. Observe the system for leaks.

11. Open the tank shut-off valve.

12. If the replaced cartridge was a carbon post-filter or a membrane, the system should be flushed at least once before being used with equipment to remove carbon fines.

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