

Recirculating Lab Faucet Installation Instructions

Models: 830-PVDF and 831-PVDF

Overview

The Recirculating Lab Faucet for deck mount and wall mount installations comes with the Recirculating Module and Tube temporarily assembled.

Notice to the Installer

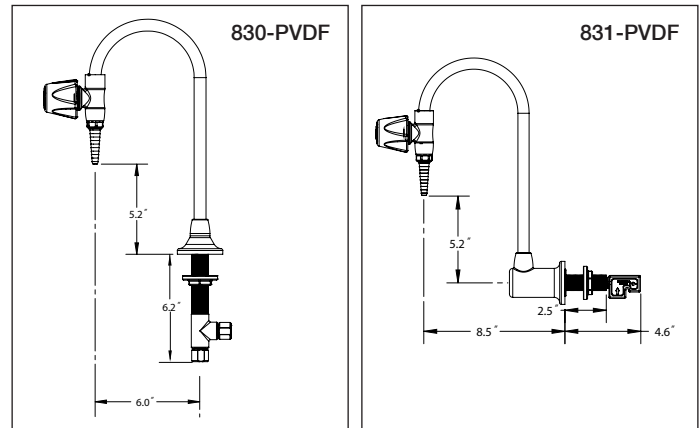
- Read this entire instruction sheet before installing to ensure proper installation.
- Installation must comply with local codes and ordinances.

Pressurized plumbing fixtures shall be installed in accordance with manufacturer's recommendations. The supply piping to these devices shall be securely anchored to the building structure to prevent installed device from unnecessary movement when operated by the user. Care shall be exercised when installing the device to prevent marring the exposed surface.

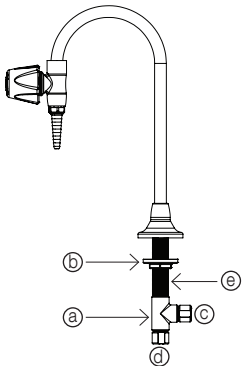
NOTE: The information in this document is subject to change without notice. Please leave this manual with the facility manager after completing the faucet installation.

NOTE: Before installation, turn off water supplies to faucet and cover drain.

NOTE: A high density PTFE tape is the recommended thread sealant.

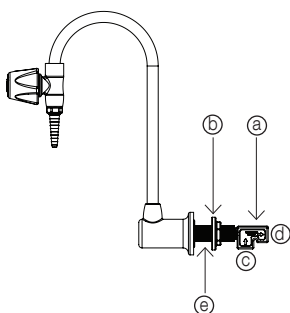


Deck Mount Installation



1. Remove the recirculating module and recirculating tube (a) from the shank (e).
2. Mount the faucet in the desired location through a 1" diameter hole. Tighten to deck with the mounting nut (b) supplied.
3. Insert the recirculating tube into and through the shank until the 3/8" male NPT thread mates with the 3/8" female NPT thread in the inlet connection of the shank. Tighten by hand plus 1/4 wrench turn.
4. Connect the supply line to the 3/8" female NPT inlet connection (c).
5. Connect the recirculating return line to the 3/8" female NPT outlet connection (d).
6. Pressure test all connections.

Wall Mount Installation



1. Remove the recirculating module and recirculating tube (a) from the shank (e).
2. Mount the faucet in the desired location through a 1" diameter hole. Tighten to wall with the mounting nut (b) supplied.
3. Insert the recirculating tube into and through the shank until the 3/8" male NPT thread mates with the 3/8" female NPT thread in the inlet connection of the shank. Tighten by hand plus 1/4 wrench turn.
4. Connect the supply line to the 3/8" female NPT inlet connection (c).
5. Connect the recirculating return line to the 3/8" female NPT outlet connection (d).
6. Pressure test all connections.

Recirculating Lab Faucet System Design Notes

The Recirculating Lab Faucet is designed primarily for use with a recirculating system which incorporates a non-pressurized storage tank or reservoir. The non-pressurized tank provides the pressure drop for the recirculating flow to continue and return via the recirculating tube. Since the water is re-turned to the tank, it is not actually consumed.

The objective is to provide a constant flow of DI Water when the point-of-use dispense is not being utilized. This will prevent stagnation of the water and subsequent development of bacterial growth. Continuous flow is one method of combating bacterial growth in UPW systems.

Ideally, the flow rate of the recirculating flow stream is 4.5 feet per second or greater. Maintaining this flow rate will prevent bacteria and other biomass from adhering to internal surfaces. Lower flow rates are still beneficial over a stagnate system.

When piping the recirculating lab faucet in series, a common return line may be used to accept each individual recirculating tube. A small pressure drop downstream of each faucet may be necessary to assure a positive flow through the recirculating system and provide adequate pressure for the main water dispensing.

For additional technical assistance, call 800/TEC-TRUE (800-832-8783) or visit our website at chicagofaucets.com.

CHICAGO FAUCETS LIMITED WARRANTY

TO WHOM DOES THIS WARRANTY APPLY? — The Company extends the following limited warranty to the original user only.

WHAT DOES THIS WARRANTY COVER AND HOW LONG DOES IT LAST?

This warranty covers the following Commercial Products:

THREE YEAR FAUCET WARRANTY — Certain Products and portions of the Product are warranted against material manufacturing defects for a period of three (3) years from the date of Product purchase. All zinc die cast portions of Product are warranted against material manufacturing defects for a period of three (3) years from the date of Product purchase.

THREE YEAR CARTRIDGE WARRANTY — The "Cartridge", defined as the metal portion of any Product typically referred to by the product numbers containing 1-099, 1-100, 1-310, 377X, 217X and 274X, excluding any rubber or plastic components, is warranted against material manufacturing defects for a period of three (3) years from the date of Product purchase.

ONE YEAR FINISH WARRANTY – COMMERCIAL — For Products used in commercial applications, the finish of the Product is warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase. Other restrictions and limitations apply. For complete warranty details, call Chicago Faucets Customer Service at 847-803-5000 or visit chicagofaucets.com.

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