OP175 Simple Install
Steps 1-17

Refer to Installation, Operation & Maintenance Manual for More Details
General Information

- System must be installed indoors easily accessed for service and maintenance.
- Water supply is cold water only at a minimum of 50 psi, maximum of 80 psi.
- A ½” Dedicated Water Supply line with Full Flow Ball Valve and Pressure Gauge, Drain and 120VAC power supply is required within 4’ of installation.
- Installation must conform to all local codes and regulations.
- Keep tubing and hoses as short as possible and avoid loops or kinks in tubing. Do not cut tubing with wire crimpers or dikes.
- Install System as close as possible to the equipment served.
- Never restrict flow of water from system to drain during operation. This flow is necessary to carry contaminants away from membrane.

NOTE: Dedicated water line is a water line run directly from a main water source. It does not branch out and is uninterrupted along its path.
Mount the Processor

Step 1
Select a secure mount location with access to a dedicated cold water supply line, drain & 120VAC power supply.

Step 2
Attach Water Processor at the upper and lower keyhole mounts.
DO NOT PLUG IN.

Step 3
Connect Water Supply to “A” Water Processor Feedwater Inlet – Green Tubing.
Step 4a
Connect ¼” Black Tubing to “D” Reject Water Outlet.

NOTE: Optipure Airgap shown in picture is not included, any approved airgap can be used.

Step 4b
Connect Black Tubing from “D” Reject Water Outlet to an Approved Air Gap and Drain Line.
Make the Storage Tank Return to Processor Connection

**Step 5a**
Connect ½”ID Gray Hose to ½”Hose Barb Adapter & Clamp. Connect to “J” Tank Repressurization Return.

**Step 5b**
Route Gray Hose to Optimized Water Storage Tank.

**Step 5c**
Connect ½”ID Gray Hose to ½”Hose Barb Adapter and Clamp. Connect to Repressurization Assembly outlet.

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Note: Connections are the same for the 16 g. & 50 g. Storage Tanks (16 g. shown.)

See Appendix A for Remote RP Tank connections (page 17)
Make the OptiMized Water to Storage Tank Connection

Step 6a
Connect 3/8” Blue Tubing to “B” Optimized Water To Storage Tank.

Step 6b*
Route Blue Tubing to 3/8” Push-connect fitting on the Storage Tank Divert Valve inlet.

Step 6c*
Connect 3/8” Blue Tubing to Inlet of Tank Inlet Divert Valve.

Note: Connections are the same for the 16 g. & 50 g. Storage Tanks (16 g. shown). *See Appendix A for remote RP Connections.
Optional Chlorammine Reduction Filter

If you are using an FXPT-11CR chloramine reduction filter

Install it on the 3/8” (blue) ‘Optimized Water to Storage Tank’ line:
Inlet – From the Processor
Outlet – to the Storage Tank

The system includes 3/8” push-connect fittings for simple installation.
**Step 7**

Connect ½” ID Gray Hose to ½” Hose Barb Adapter & Clamp. Connect to “E” Optimized Water Outlet.

The Optimized Water Line will be connected directly to equipment, or (optional) post-Treatment Filter and then on to equipment.

**DO NOT CONNECT THE LINE TO THE EQUIPMENT AT THIS TIME.**

- Make the Optimized Water Outlet to Equipment Connection

OptiPure OP175 Simple Install Steps
Install Membrane

Before proceeding with Step 8 remove the plugs in the QT heads.

Step 8a
Install AMS-QT Membrane into the QT Head and turn to align arrows.

Step 8b
Remove plug from elbow at bottom of AMS-QT by pushing in on grey collar and pulling on plug. Connect ¼” black reject tubing.
Install Mineral Addition & Pre-Filter Cartridges

Step 8c
Install MA-Q10 Mineral Addition Cartridge into the QT Head and turn to align arrows.

Step 8d
Install two CTO-Q10 cartridges into QT heads 1&2 starting from the left side of the processor and turn to align arrows.
Installation Complete – Proceed to System Start-Up

Overall View of completed installation – Next Steps describe System start up.

Do NOT connect pump to power at this time.

Note: Connections are the same for the 16 g. & 50 g. Storage Tanks (16 g. shown). *See Appendix A for remote RP Connections.
Purge Air & Flush System

Step 9
Turn Emergency Bypass valve to the “SYSTEM BYPASS” mode. While holding the Optimized Water Line over a drain, Turn on the water supply valve (user supplied). Allow to flush until water runs clear and free of air.

Step 10
Turn Emergency Bypass Valve to the “SERVICE” mode.
Open Feed-Water Supply valve. Allow Pre-Filters and the membrane to purge air and flush.
After several minutes water will start flowing to drain and Optimized water will start filling the tank. (Optimized water flow rate is less than 0.25 gpm)
Step 11
Check Tank Float Valve operation. Remove tank lid, gently raise and hold the float in the closed position. Watch water flow to tank and drain stop and operating pressure on pressure gauge drop to zero. Lower the float to resume normal operation.
Rapid Fill the Storage Tank

Step 12a
While holding the Optimized Water Line over the tank opening, turn the Emergency Bypass Valve to the “BYPASS” position.

VERY IMPORTANT– PRIME REPRESSURIZATION PUMP before connecting Optimized Water Line to equipment. To prime the pump the Storage Tank must be at least half full!

Step 12b
DO NOT PLUG IN THE PUMP AT THIS TIME.
Allow the tank to reach half full.

Step 12c
When the tank is half full, turn the Emergency Bypass Valve to the “SERVICE” position to resume normal operation.
Step 13a
Open Buffer Tank Valve

Step 13b
Holding Optimized Water Line over tank opening, plug in RP pump and allow to run until water flow is steady and free of air.

Step 13c
After flow is steady close Buffer Tank Valve and allow Buffer Tank to fill and RP Pump should turn off. If the RP Pump does not turn off air is present. Repeat Step 15b.

Prime the Repressurization Pump
Make Connection to Equipment

Step 14
Connect Optimized Water Line to Post-Treatment and downstream equipment.

Step 15
Open Buffer Tank Valve and start downstream equipment. Check for leaks.
Complete the Installation

Step 16
Secure tubing, hoses and wires as needed to assure the installation is neat and not susceptible to damage.

Step 17
Complete the “Post Installation Check List” and the “Service Log” and leave them with the operator/owner.

Access manuals, spec sheets and additional educational materials for foodservice water treatment at our website.

www.optipurewater.com
Appendix A – Remote RP Connections

Use Remote RP configuration when installing tank in a location that has limited height. For example, under a steam oven or counter.

Step A-1
Insert Stem Elbow in Pick-Up Tube Connection

Step A-2
Insert Red Tubing in top Push-To-Connect on Divert Valve.

Rubber Feet – 4 places.
Appendix A – Remote RP Connections

Step A-3
Insert Red Tubing into inlet of Check Valve.

Step A-4
Connect Grey Hose to ½” Hose Barb and Clamp.
Appendix A – Remote RP Connections

Step A-5
Connect Grey Hose to ½” Hose Barb and Clamp.

Note: All other connections are the same as when the RP assembly is installed on top of the tank.
Remote RP Buffer Tank Low Level Switch

1. Feed the grey cable from the low water level switch on the tank threw the bottom of the relay box.

2. Attach wires to terminals marked “D” and “C”

NOTE: It does not matter which wire goes where.

Low Level Switch Wiring Diagram