

# OP175 Simple Install

## Steps 1-17

Refer to Installation, Operation & Maintenance  
Manual for More Details

OptiPure

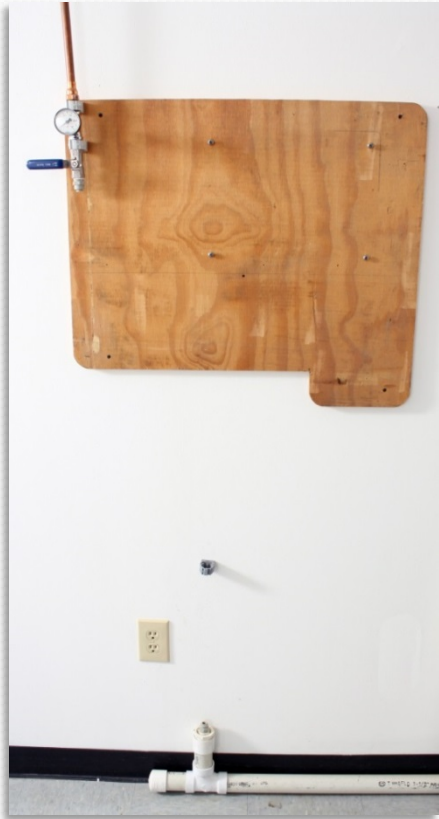
## ❖ General Information

- 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

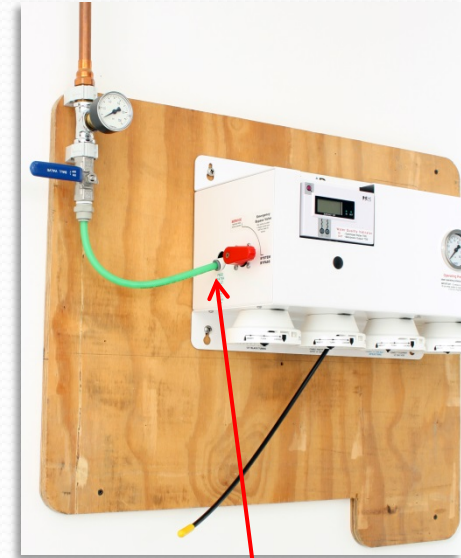
Select a secure mount location with access to a dedicated cold water supply line, drain & 120VAC power supply.



### 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.

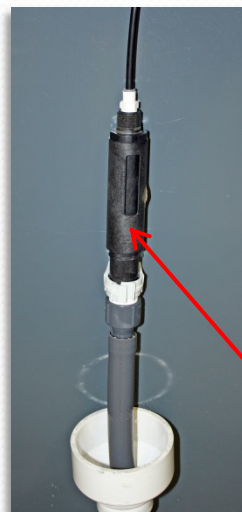
## ❖ Make the Drain Connection



### 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 Re-pressurization Return.



½" Hose Barb Adapter & Clamp (Included).

### Step 5b

Route Gray Hose to Optimized Water Storage Tank.



See Appendix A for Remote RP Tank connections (page 17)



### Step 5c

Connect ½"ID Gray Hose to ½" Hose Barb Adapter and Clamp. Connect to Re-pressurization Assembly outlet.

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

## ❖ Make the OptiMized Water to Storage Tank Connection

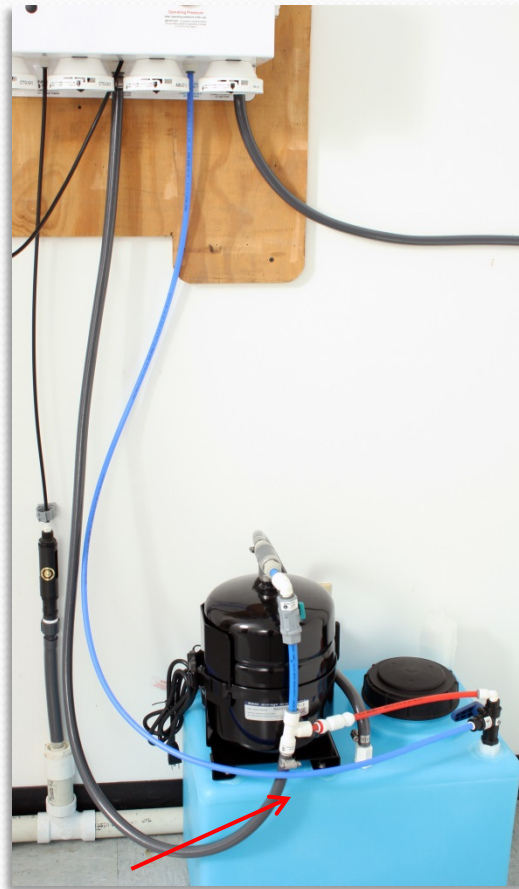


### Step 6a

Connect 3/8" Blue Tubing to "B" Optimized Water To Storage Tank.

### Step 6b\*

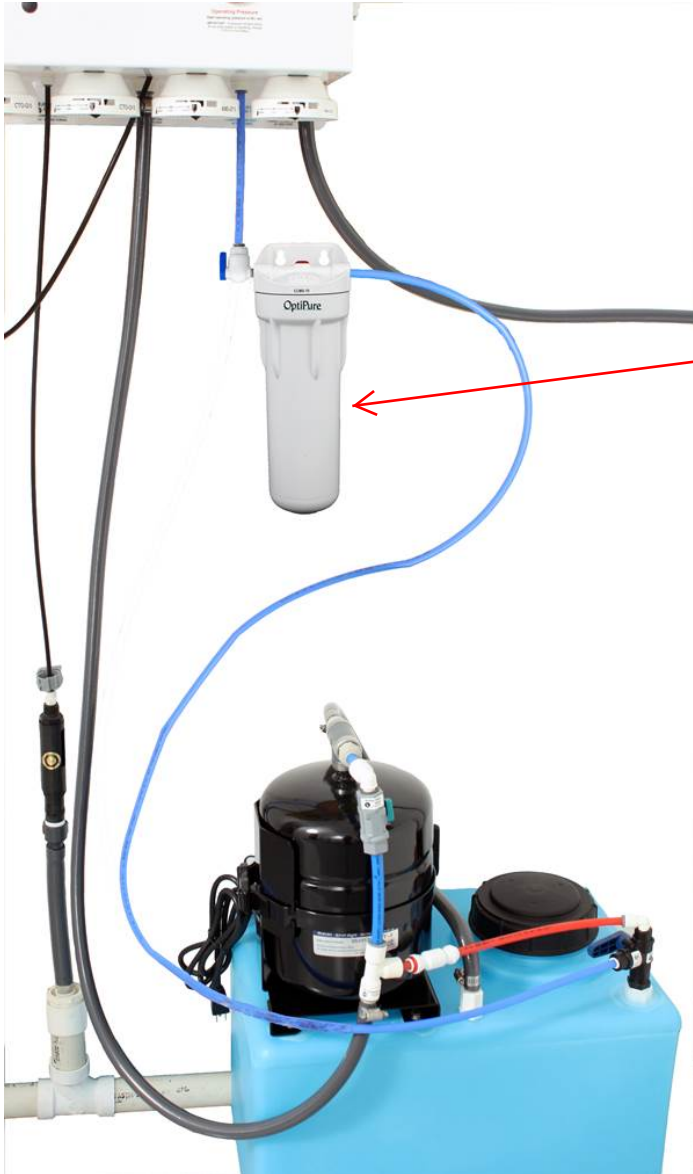
Route Blue Tubing to 3/8" Push-connect fitting on the Storage Tank Divert Valve inlet.



### 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 Chloramine 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.

## ❖ Make the Optimized Water Outlet to Equipment Connection



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.**

### Step 7

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

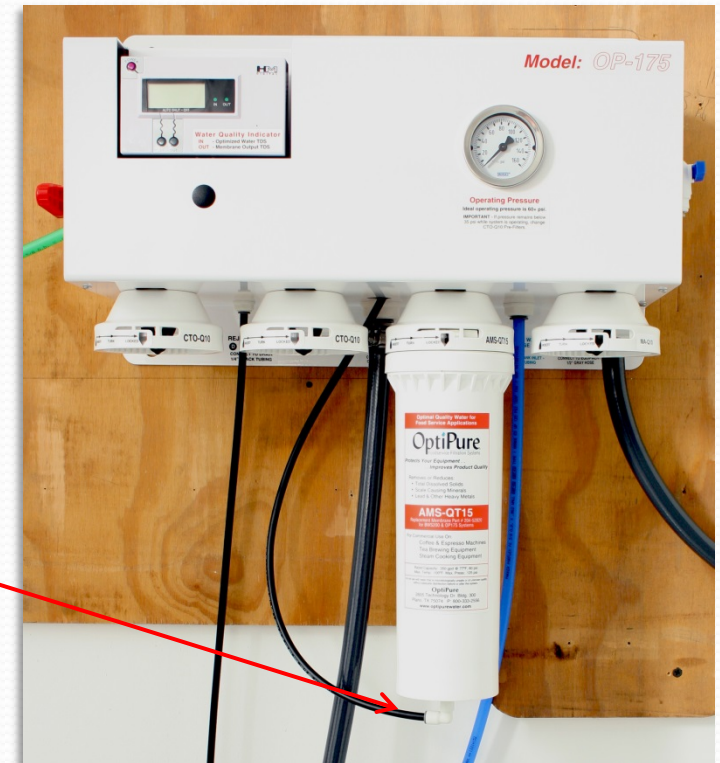


## ❖ Install Membrane

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

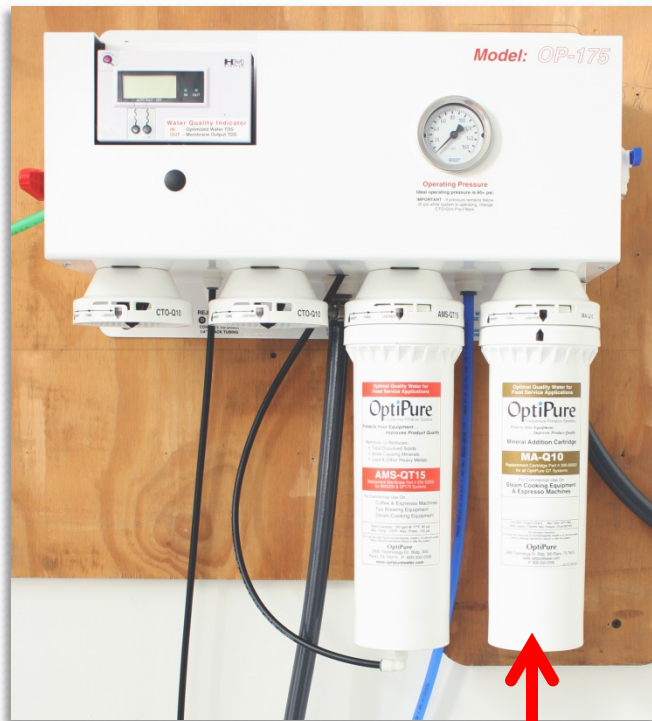


**Step 8a**  
Install AMS-QT Membrane into the QT Head and turn to align arrows.



**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

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.*

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

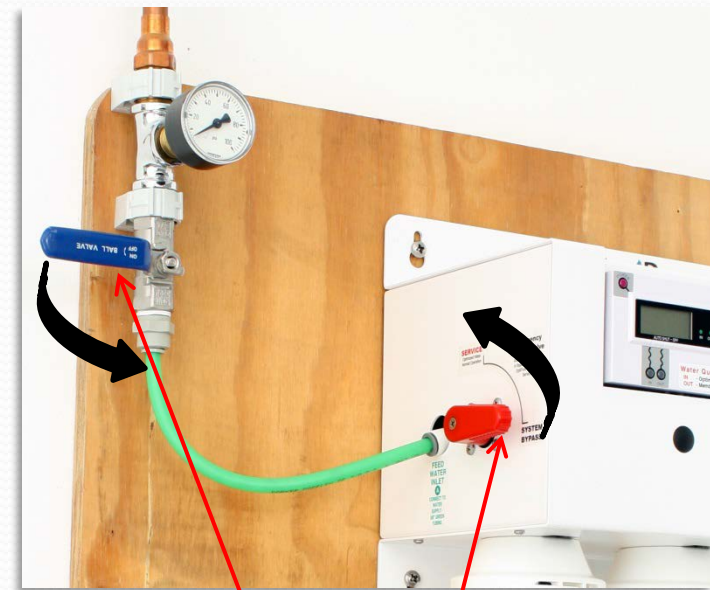


## ❖ Purge Air & Flush System



### 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

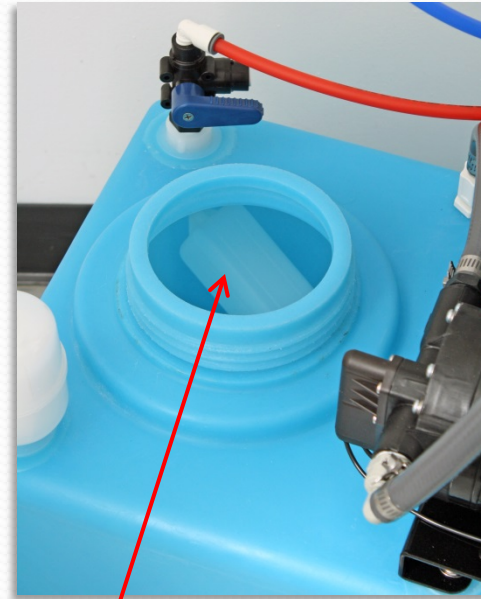
Turn Emergency Bypass Valve to the “SERVICE” mode.

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)



## ❖ Check the Tank Float Valve



### 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.

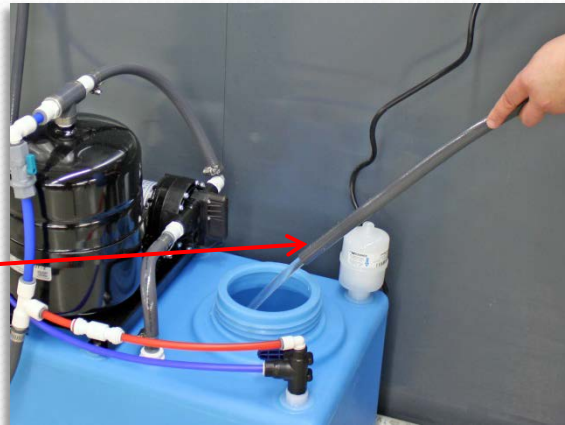
## ❖ Rapid Fill the Storage Tank



### 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

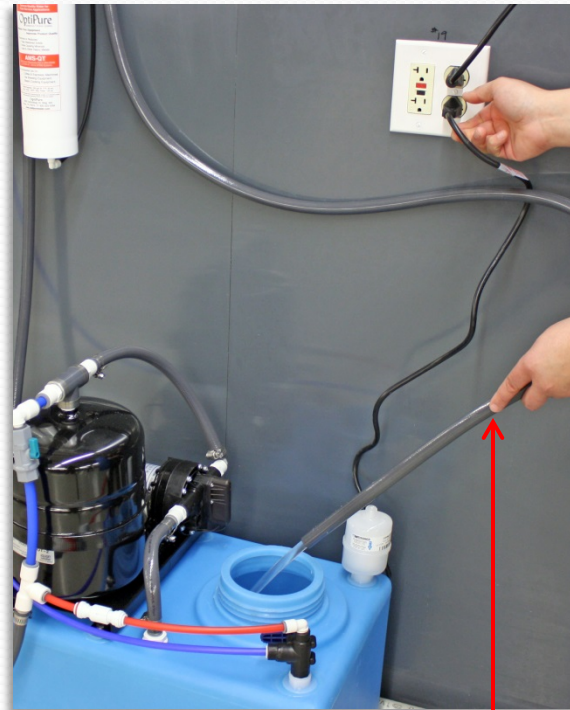
When the tank is half full, turn the Emergency Bypass Valve to the “SERVICE” position to resume normal operation.

## ❖ Prime the Repressurization Pump



### 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

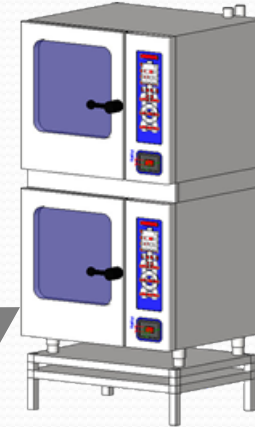
After flow is steady close Buffer Tank Valve and allow Buffer Tank to fill and RP Pump should turn off. If the RP Pump does not turn off air is present. Repeat Step 15b.

## ❖ 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.





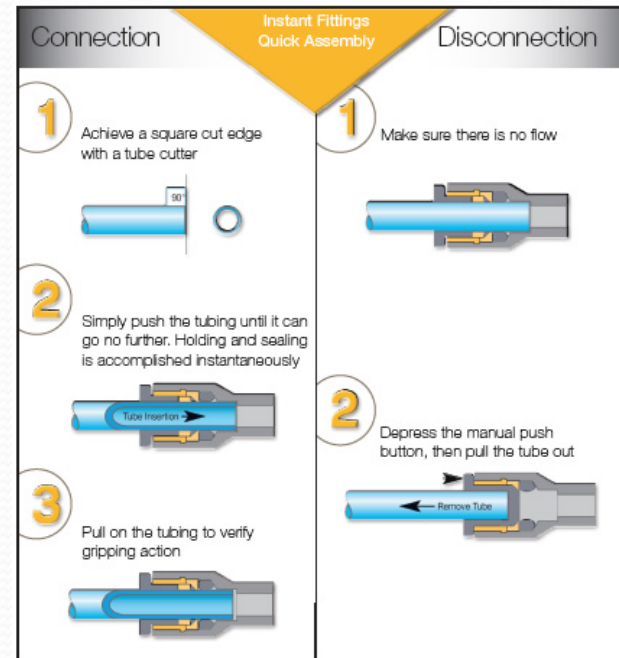
## ❖ Complete the Installation

### 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](http://www.optipurewater.com)

**OptiPure**  
Foodservice Filtration Systems

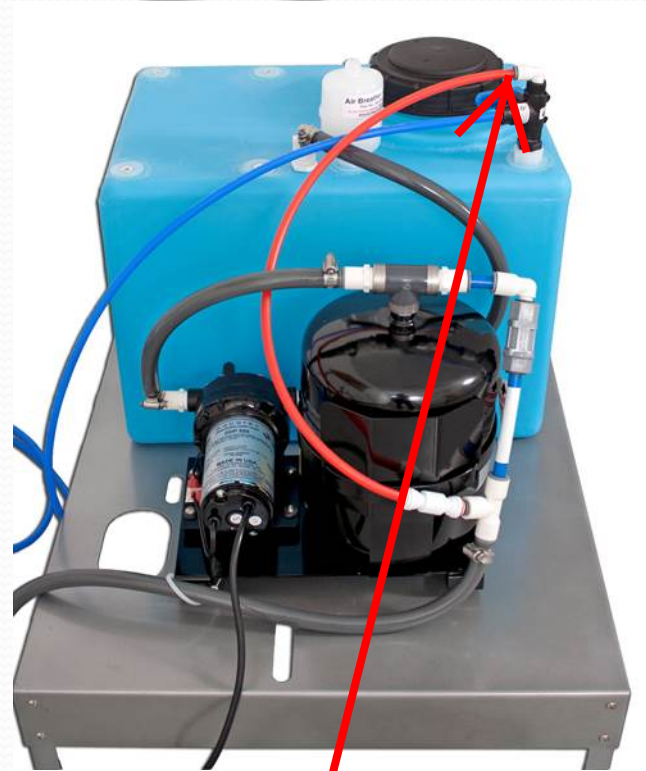
# Appendix A – Remote RP Connections

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



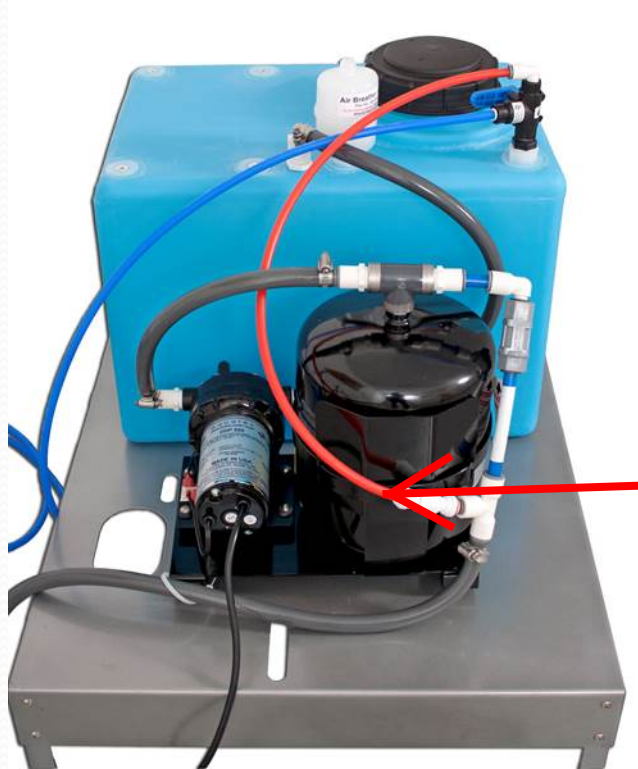
Rubber Feet – 4 places.

**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.

# Appendix A – Remote RP Connections



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



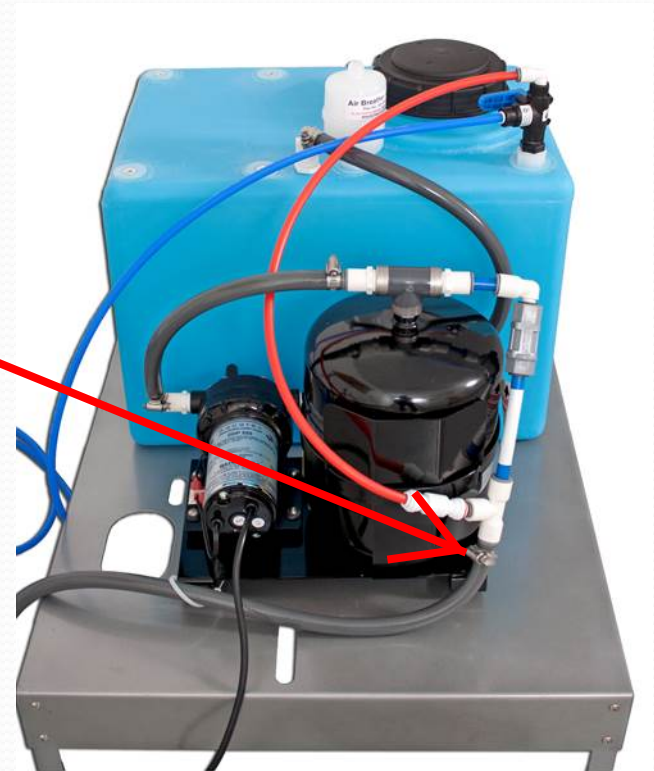
**Step A-4**  
Connect Grey Hose to 1/2" Hose Barb  
and Clamp.

# 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.

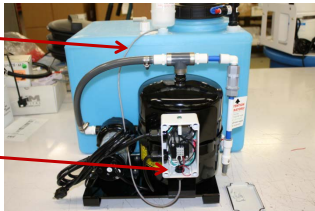




### Remote RP Buffer Tank Low Level Switch

- ① Feed the grey cable from the low water level switch on the tank through 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

