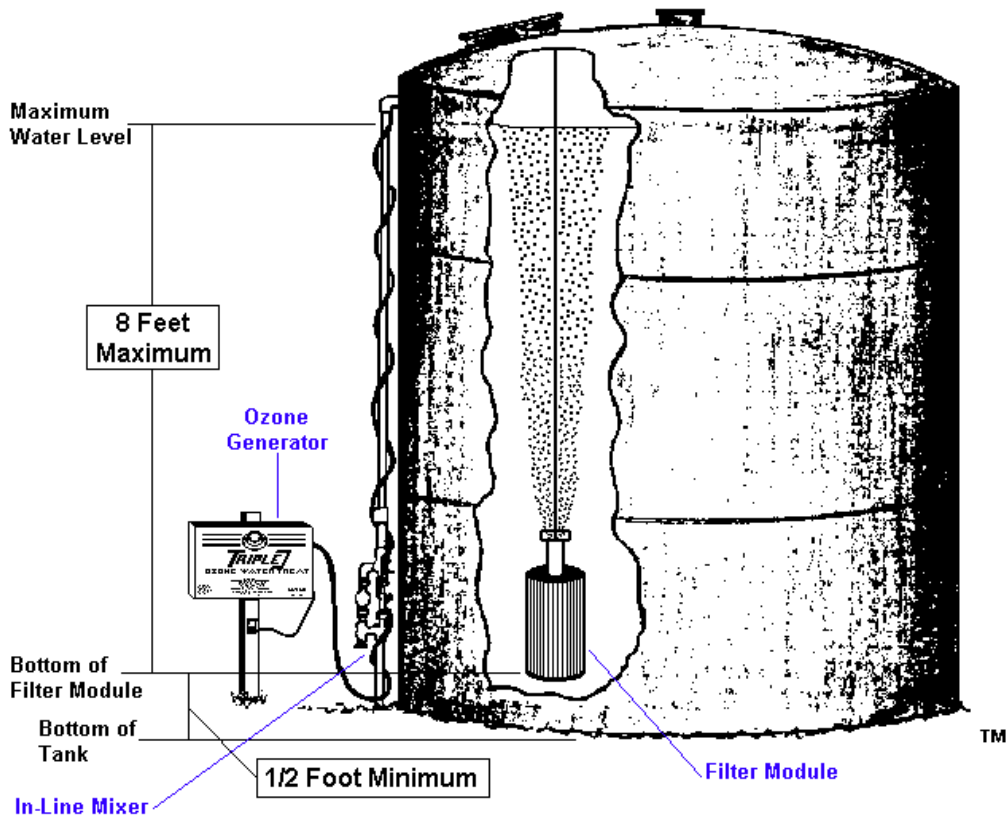
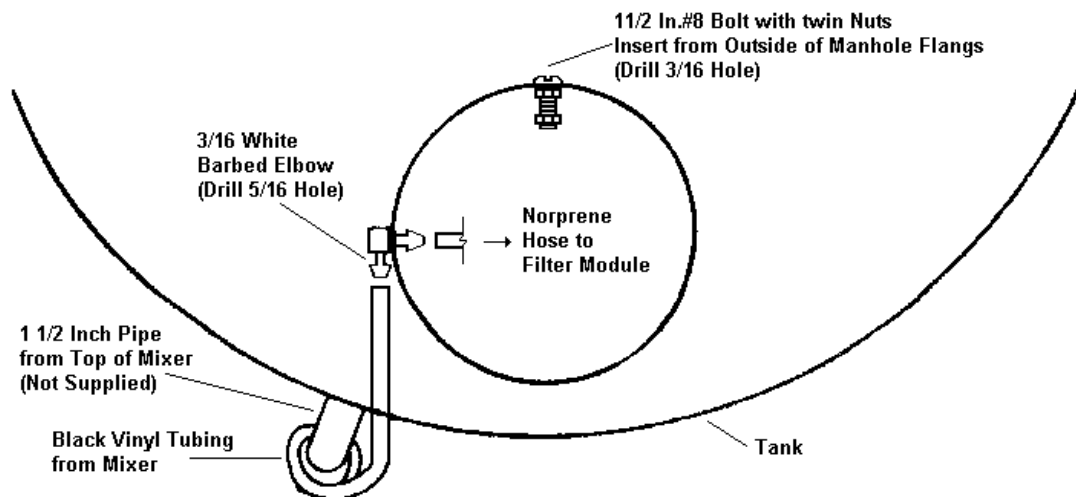
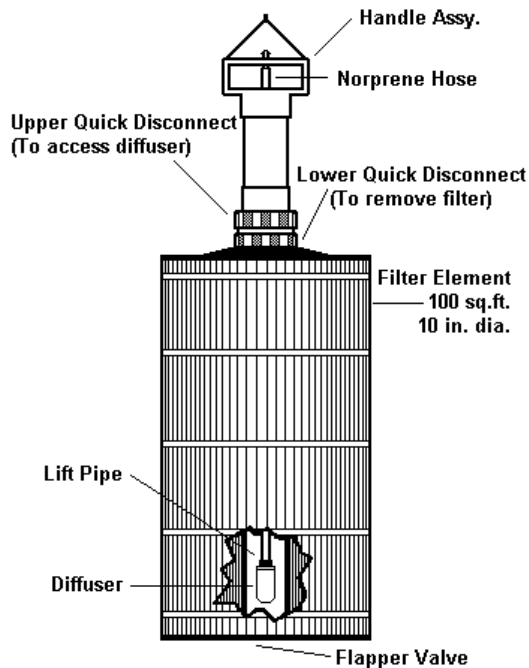


## Triple O Ozone Water Treatment System Installation Guide:



### Prepare the filter module for installation into the tank:

1. Attach the handle/diffuser assembly to the filter top by feeding the diffuser hose down into the filter module lift pipe and attaching the quick disconnect.
2. Attach the stainless steel chain (provided) to the captive chain on the handle by crimping the end link onto the top link of the handle chain.
3. Connect the Norprene hose (dull black rubber like hose) to the barb located on top of the filter module handle. Using the black wire ties provided, gently tie the Norprene hose at one foot intervals to the stainless steel chain. Do not over tighten the wire ties as this will crush the hose and reduce ozone flow.

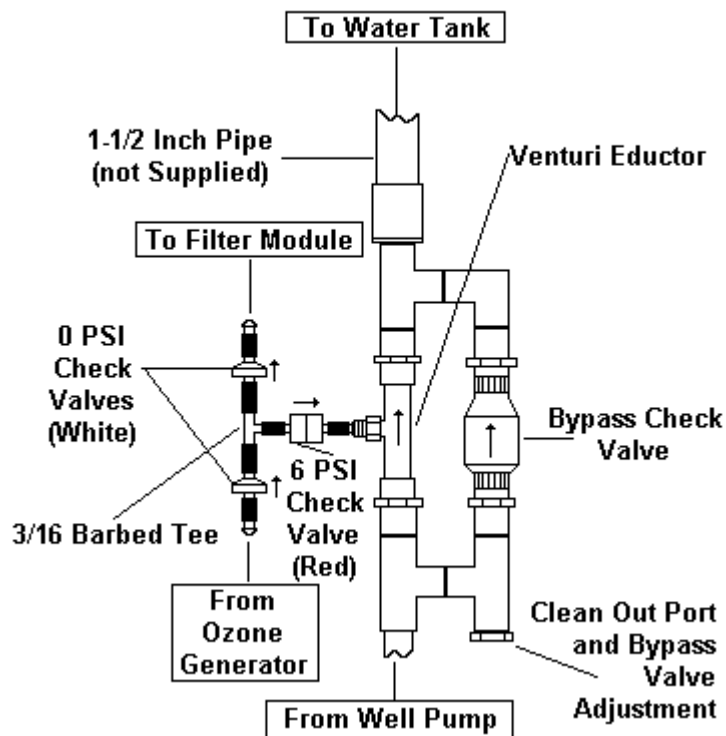


1. Drill a 3/16 inch hole through the manhole flange nearest the center of the tank.
2. Insert the provided #8 bolt through the manhole flange from the outside of the manhole and secure in place with one of the #8 nuts provided. Do not discard second #8 nut, this will be used later.
3. On the side of the manhole flange, at the 9 o'clock or 3 o'clock position (12 o'clock is the side of the manhole closest to the center of the tank as viewed from the top), drill a 5/16 inch hole through the manhole flange.

**Install the filter module in the tank:**

**IMPORTANT: THE BOTTOM OF THE FILTER MODULE SHOULD BE AT A MAXIMUM DEPTH OF 8 FEET BELOW THE HIGHEST TANK WATER LEVEL, BUT NOT CLOSER THAN 1/2 FOOT FROM THE BOTTOM OF THE TANK TO PREVENT STIRRING UP SEDIMENT.**

1. Slowly lower the filter module down into the water. For deep tanks (water depths of 9 feet or more), position the bottom of the filter module 8 feet below the highest water level. For shallow tanks (water depth less than about 8-1/2 feet), lower the filter module down into the tank until it touches bottom, pull back up 1/2 foot.
2. Remove excess chain and attach chain to the #8 bolt with second #8 nut.
3. Insert the 90 degree hose barb fitting through the 5/16 inch hole in the side of the manhole flange from the outside of the manhole, and attach the 3/16 inch black Norprene hose to the barb, cutting off excess Norprene hose as appropriate.



The mixer installs into the well water feed pipe to your tank. For above ground tanks, the mixer should be installed at about the same vertical level as the filter module (the bottom of the mixer should be at about the same level as the bottom of the filter module). For buried tanks, the mixer can be mounted anywhere above the ground. The mixer can be mounted in any orientation.

The mixer has a 1 inch PVC slip input (lower) and a 1-1/2 inch slip output (upper). To maximize the effectiveness of the mixer, 1-1/2 inch pipe should be run from the top of

the mixer, up the side of the tank to the point of water introduction into the tank. If this is not possible, the 1-1/2 inch pipe should be run at least 3 to 4 feet from the top of the mixer before converting to the existing water well feed pipe, thus providing a "mixing chamber" for the ozone gas.

**Glue the mixer in place in the well water feed line:**

1. Determine vertical location of the mixer.
2. Cut the water pipe in appropriate location. Using PVC fittings, glue the water feed pipe (from the well pump) to the bottom input of the mixer.

NOTE - MAKE SURE THE MIXER IS CORRECTLY POSITIONED WITH THE ARROW ON THE BYPASS CHECK VALVE POINTING IN THE DIRECTION OF WATER FLOW.

3. Using appropriate PVC fittings, install 1-1/2 inch PVC pipe from the top of the mixer to the tank water input fitting.

**Ozone hose installation:**

- 1.. Using the glossy black vinyl hose (50 foot coil supplied), route the hose from the 3/16 inch barb in the manhole to the top 0 psi (white) check valve, wrapping the vinyl hose around the 1-1/2 inch water feed pipe for a neat installation. NOTE: If it is cold outside, heating the vinyl hose slightly with a match will make it easier to slip onto the barb fittings.
2. Connect the 6 psi (red) check valve hose to the venturi eductor barb.

**Freeze Protection:**

The mixer assembly is subject to freezing as is the water feed pipe from the well. In freezing climates, insulate well. Use "heat tape" in severe climates.

**OZONE GENERATOR INSTALLATION**

The ozone generator can be mounted up to 200 feet from the holding tank; 50 feet of black vinyl hose is supplied which is more than adequate for most installations. Consult factory if additional hose and connectors are needed.

The generator construction is rain tight and can be mounted indoors or outdoors. Good ventilation is required since the generator creates heat.

1. Remove generator can lid.

2. Mount the can to a solid vertical surface (wall, etc.) with the 3 screws supplied. Two screws are used to mount the can hanging tabs, and one screw is used to attach the can back to the mounting surface through the 1/4 inch hole provided in the back of the can.
3. Write installation date on sticker located on the inside of the can lid.
4. Route the 3/16 black vinyl hose from the ozone generator to the lower 0 psi (white) check valve of the mixer. Be sure to route the hose so it will not become accidentally damaged.
5. If your generator is cord connected, plug the ozone generator into a properly grounded, grounding type receptacle. Use a waterproof receptacle/plug cover if installed outdoors. If your generator is the 230v hard wired version, wire according to local and national codes.

## **STARTING UP YOUR SYSTEM**

Recheck your installation to verify that it is correct. Turn ON the ozone generator. You should hear a faint hum - this is the air pump. A faint blue-green glow should be visible through the lens near the top center of the generator can - this indicates the UV lamp is ON and the system is producing ozone. NOTE: The UV lamp may not fire up immediately if the ambient temperature is below 40 degrees F, and may never fire in extreme cold. However, once lit, the lamp will stay lit in extreme cold.

Proceed to the tank manhole - you should see a full pattern of bubbles rising up from the filter module. This may take a few seconds to develop since the entire ozone hose system must be pressurized.

Now turn ON your well pump. The bubble pattern inside the tank should decrease or stop completely. This indicates that the ozone gas is correctly being diverted to the mixer. If you see no change in the bubble pattern in the tank, recheck your installation and make sure the ozone hose is correctly installed and the mixer is installed with the flow arrows pointing in the direction of water flow.

If the installation is correct, it is possible that your well pump cannot create enough pressure to fully activate the mixer. With the well pump ON, pull off the black Norprene hose from the venturi eductor barb - you should be able to feel suction on the venturi barb indicating that the mixer is working. Reinstall the Norprene hose.

If no suction is detected, check for debris in the mixer. The mixer bypass valve is factory set to 15 psi. If your well pump cannot produce more than 15 psi, the water flow into your tank will all pass through the venturi eductor and your well water feed flow rate will be reduced. This is no cause for alarm as reducing the water flow rate will not harm your well pump.