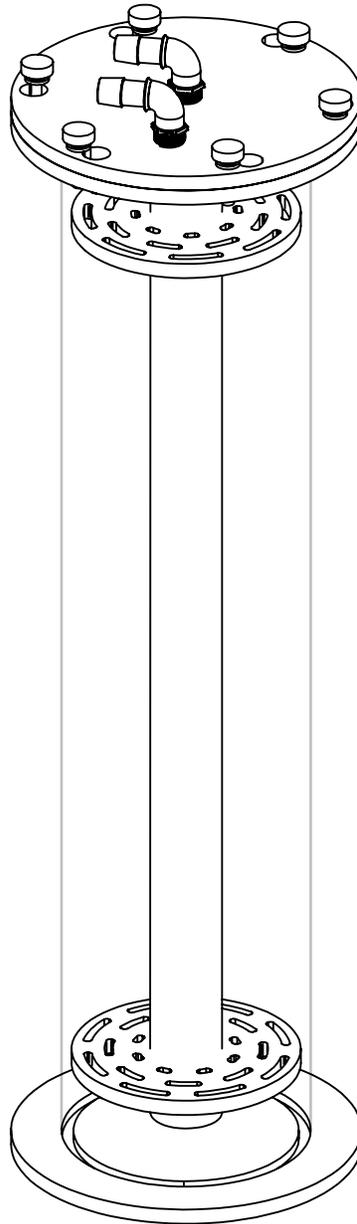




MRC

Building Success



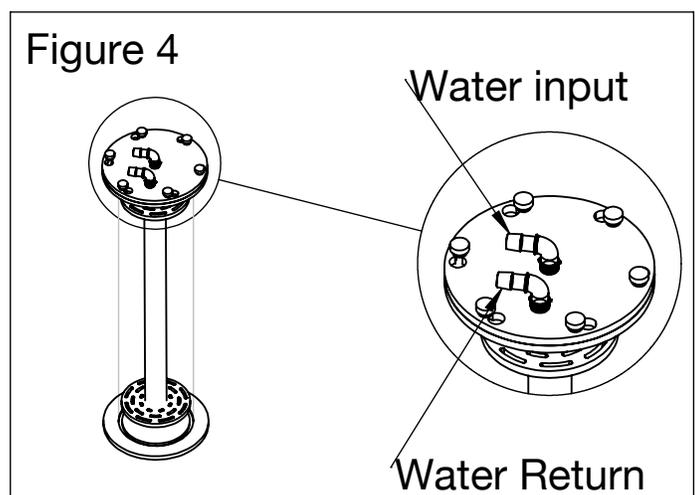
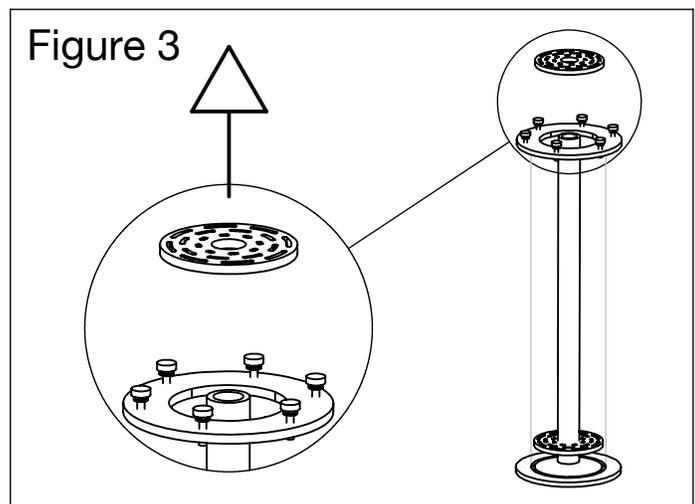
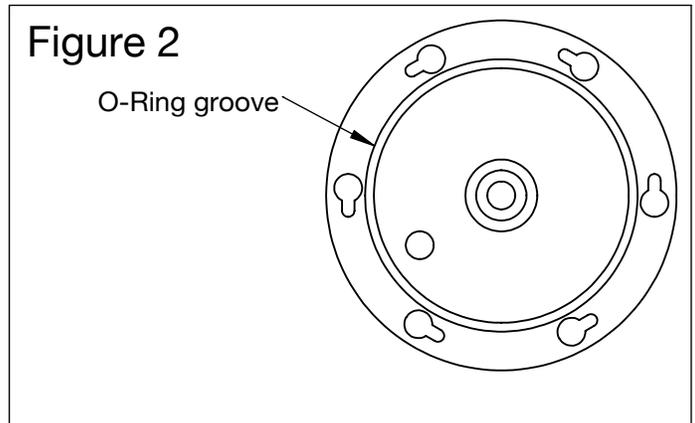
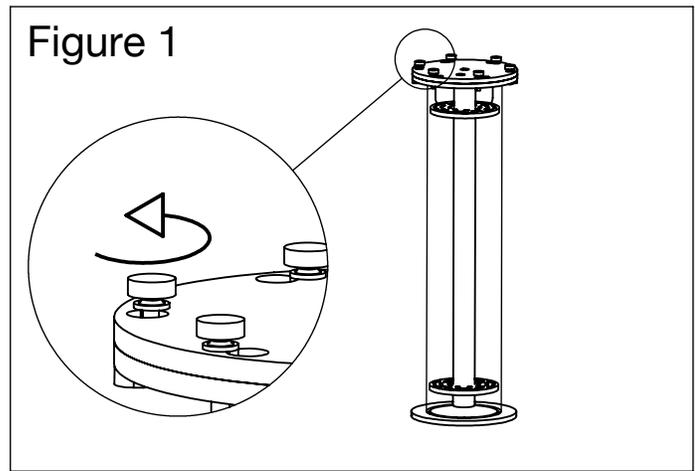
Congratulations
on purchasing your new xSeries Reactor

MRC[®] x3 & x5

Includes ECO kit

Initial Inspection and Set-up

1. Visually inspect the unit for any visible shipping damages
2. Loosen 6 thumb screws a few turns to allow the lid to turn clockwise, then remove by gently lifting straight up(Figure 1)
3. Inspect the o-ring to ensure that it is undamaged, free of debris, and seated properly in the groove. (Figure 2)
4. Remove the top blue diffusing plate(Figure 3) and black sponge
5. Locate and remove the parts pack which is inside the unit
6. Make sure bottom sponge is pushed all the way down. Be careful of using your hand as the tube could get stuck around it or your arm. We recommend using a rod or something similar to push the sponge flat to the bottom plate.
7. Using the provided 60" roll of PTFE tape and wrap both threads on the included barb fittings. Hint: Leave first thread or two unwrapped, be sure to wrap the fitting clock-wise or the same way the fitting turns when installing. Otherwise you will unthread the tape and can lead to a leak. Fittings should be wrapped so they are snug when twisted in by hand. Be careful not to wrap too much tape or over tighten these fittings, damage to unit may occur if done
8. Reassemble the unit, always hand tighten the six thumb screws. Using tools may damage the unit and/or Oring seal.
9. On the lid the center fitting is the water input and the outer fitting is the water return to system(Figure 4)



MRC[®] x3 & x5

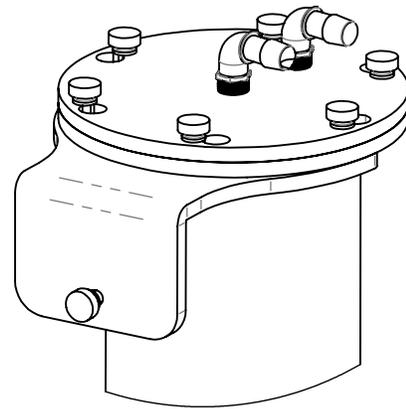
Includes ECO kit

10. If you purchased the x3 ECO Kit you will find an additional parts pack. Included is an ECO Plus 132gph pump with adjustable flow control, 4' of blue 1/2"ID USDA food grade hose as well as three cable ties. You will need to cut the hose at desired length to allow the pump to be installed where it is completely submersed in water at all times. The remaining tubing can be used to return the water from the unit back into the system. We recommend using clamps or the provided cable ties to secure the hoses to the unit and pump. Be sure to use a "drip loop" in the power cord when installing the plug so water cannot enter the electrical outlet. Remember to always unplug the pump before ever servicing it or the unit. Careful attention should be provided so that the tubing stays installed inside the sump or aquarium at all times.

Bracket instructions

In order to install the included clear hanging bracket on the x3, loosen 4 thumbscrews until none of threads are protruding through the bottom of the top flange. Once this is done, position the bracket on the underside of the flange and align the 4 holes. Slowly tighten all 4 thumbscrews so they thread into and through the bracket. The 3 layers (bracket, flange, & lid) should be flush together; there should not be a gap between the clear bracket and the blue flange. Never set anything on top of the unit or pull downward on it while installed. Doing so may damage the unit. Never attempt to use the flange on the x5 reactor.

Figure 5



Applications

The x3, x3 ECO Kit, and the x5 can be used with a wide variety of medias, either as a single unit or connected together with another for greater capacity. The capability and performance is dependent 100% on what media is being used, volume of media, water throughput per system volume as well as your intended results. Media of the same amount in two different size reactors essentially works the same; one unit just has more water in it. Typically these media reactors are used for biological media (MRC Bio-Media), various carbons, GFO's and other phosphate removing materials. In these cases one could use the X3 on systems up to 300 US gal and the X5 up to 500 US gal. When installing these units never restrict the output water flow. If a valve is going to be used always install it before the unit on the water inlet. MRC does not recommend any water flows to exceed 300gph on the x3 or x5 units. Never use a pressure rated pump; this will result in catastrophic failure. For use in Marine, Brackish, and Freshwater systems.

Limited Warranty

See website