

Iron Removal Filter Oxygen + Ozone



FIOX Series

Oxygen plus ozone for complete, long term iron removal
without filter fouling

Installation Manual

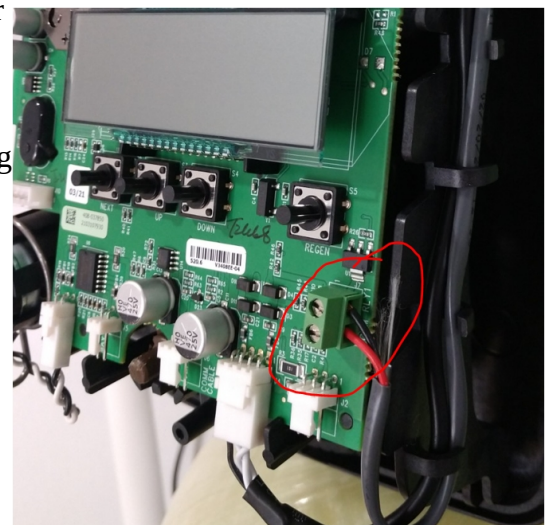
The FIOX iron removal filter oxidizes any dissolved iron in the water with oxygen and ozone. The oxygen is pulled in from ambient air and the ozone is generated on site with a small ozone generator. The oxidized iron is filtered out with the back washable sand filter.

Principles of operation: The ozone component provides protection from the common problem of iron bacteria bio-film which will plug up iron filtration systems unless the bacteria are controlled. Ozone is an energized O₃ form of oxygen which not only accelerates oxidation of iron, but also destroys bacteria in the process.

HTU-500 Ozone Generator: The ozone generator that comes with the FIOX series is an industrial grade ozone generator that will provide years of reliable service. The ozone generator turns on with a 12 volt signal from the filter valve head during the 40 minute brine cycle. While the ozone generator is on, the valve head draws in dry air and ozone into the head space of the filter tank. The air and ozone mixture oxidizes any dissolved iron in the water so that it can be filtered.

Ozone generator Install:

1. Mount the ozone generator on a wall near the filter within range of the signal wire and an outlet to power the unit.
2. The orange dessicant cylinder is plumbed into the feed gas 1/4" barb fitting. The dessicant will dry the incoming air to prevent the buildup of nitric acid from moisture.
3. Plumb ozone to the brine elbow with 1/4" ID ozone resistant tubing (included).
4. Remove the face cover from the valve head and identify the terminal for the signal wire. (red circle)
5. After threading the signal wire through the same opening for the power adapter, secure the red and black wire to the terminal block.
6. Replace the cover.
7. Plug both the ozone generator and the filter head to a powered outlet.
8. Turn the ozone generator switch on. Turn the power level knob all the way counter clockwise.





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9. Hold the far right “Regen” button for 5 seconds to begin the backwash cycle.
10. Press the button again to begin the brine cycle.
11. Observe the ozone generator turn on (orange light) after one minute of the brine cycle. Ozone production will continue for the duration of the brine cycle.

Continue installation and setup of the filter tank and plumbing with the next section of this manual.