

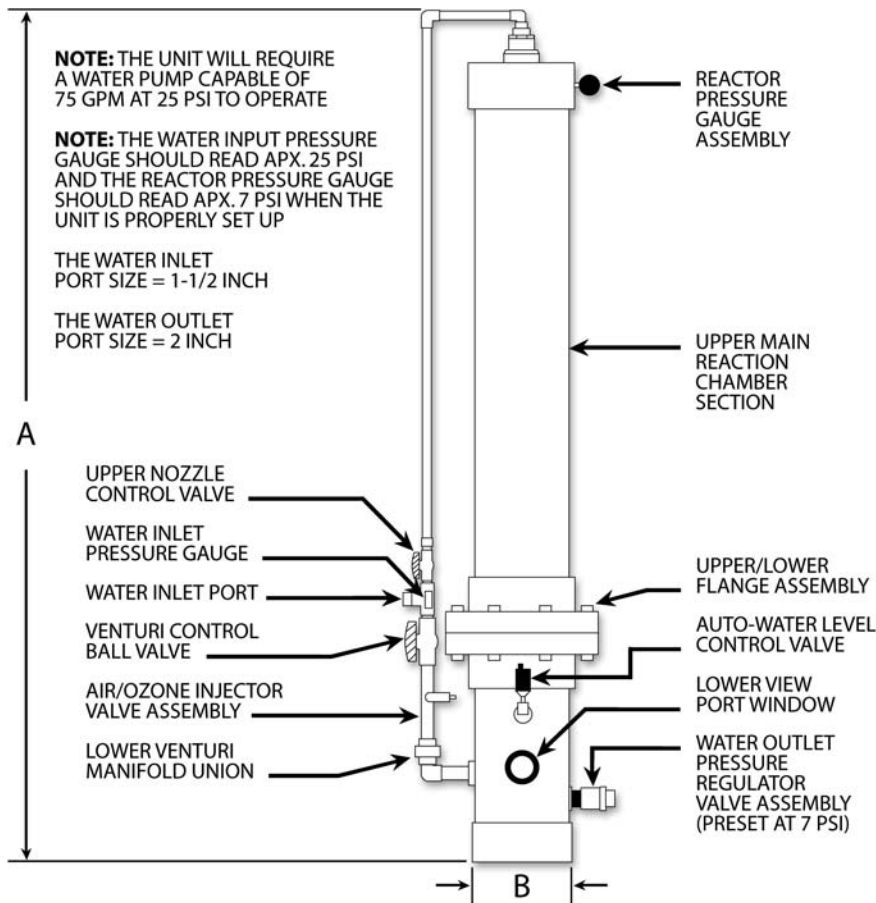
Atomizer Oxygen/Ozone Contactors

Ozone's solubility in water is affected by many variables that include ozone gas concentration, water temperature, and method of transfer. Even by the best methods, ozone gas is only partially transferred into water. The Emperor Aquatics, Inc. Atomizer is a low-pressure contact reactor that introduces tiny water droplets into the ozone gas while maintaining a low pressure, the result; greater ozone transfer into the water.

The Atomizer is fed by inlet manifold consisting of control valves and venturi injector. Using a pressure gauge, positioned at the inlet and between the inlet control valves, precise water pressure is established before the venturi injector (5 - 10 PSI). By maintaining a constant operating pressure, the inside area of the reactor vessel is comprised of 60% gas, 40% water, allowing the upper impingement nozzle to disperse ultra-fine water droplets downward through the pressurized gas.



Atomizer



Advantages:

- ▶ Exceptional ozone gas transfer. Tested on fresh-water at a temperature of 55°F yielding an ozone solubility level of 8 ppm
- ▶ Adjustable inlet/pressure capability
- ▶ Durable Construction
- ▶ Requires less operating space than conventional reactors
- ▶ Easy to assemble and maintain

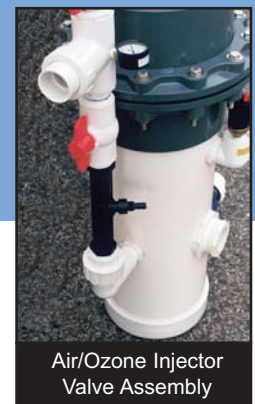
Specifications Chart

Model No.	Description	Flow Rate	Dimensions Diam. x Height	Inlet/Outlet Port	Maximum Pressure
COM0300	Atomizer I	10 GPM	10" x 72"	1.5" / 1.5"	20 PSI
COM0301	Atomizer II	25 GPM	10" x 72"	1.5" / 1.5"	20 PSI
COM0302	Atomizer III	50 GPM	10" x 72"	1.5" / 1.5"	20 PSI

Note: Larger Models Available.



Pressure Gauge Assembly



Air/Ozone Injector Valve Assembly