

## AC-500/AC-500G OZONE GENERATOR

### INSTALLATION, OPERATION AND MAINTENANCE MANUAL



**Environment:**

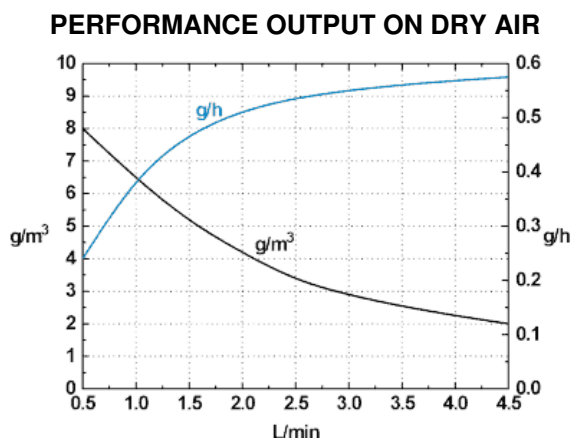
The ozone generator is specified to work in environment with less than 85% R.H. (Relative Humidity), and less than 100-deg F ambient temperature, free of dust and oily vapors.

**Installation:**

Connect the OZONE OUT s.s. nipple with 1/4" ID Teflon tubing. There is no ON/OFF switch for the AC-500C. The unit can be mounted on a wall or laid horizontal. An optional 10-position switch for the AC-500 allows the user to adjust the ozone output. Make sure the unit is buzzing and the white light is on.

**Operation:**

The output of the unit is dependent on the relative humidity in the air. Higher humidity results in less ozone production. Dry air or oxygen is preferred. Pressure exerted on the unit is not to exceed 5 PSI. Ensure a regulator is present when using a compressed gas. If using a compressed gas, ensure that the gas flow into the unit is equal with the gas being pulled out of the unit via a venturi or compressor. A strong vacuum greater than 10-in Hg on the corona cell will blow a fuse. The chart below shows the ozone output on dry air. The output & concentration are doubled if oxygen is used as the feed gas.



**Safety:**

Water must not under any circumstances enter the ozone generator. Not only it would burn the ozone unit, also the power line voltage would connect to the water tank. Therefore the water tank should be grounded safely to prevent serious injury or death. High voltage exists inside the ozone generator. Do not open the unit as there are no serviceable parts inside. Only trained and qualified personnel are allowed to repair the equipment.

**Maintenance:**

No regular maintenance is required. When fed from clean oxygen source, there is very little chance of any deposits inside the corona discharge electrode. The diffuser will require maintenance depending on the quality of the water. Muriatic acid will typically remove diffuser deposits.

Please call Ozone Solutions, Inc. (712) 439-6880 if any question, concern, or suggestion.