



Adept™ In-line

IN-LINE OZONE GENERATORS

Active Diamond Electrolytic Process Technology™

The Most Compact and Robust Ozone Generators on the Market

These rugged in-line dissolved ozone generators produce ozone directly in the water flowing through the device. The Push Lock fittings allow for easy installation by splicing into most any 1/4" or 3/8" diameter ozone-compatible water line. The cylindrical in-line housing is available in various sizes to accommodate net dissolved ozone production from 15 mg/hr to 250 mg/hr when operated with specified electrical drive signals. The Adept In-Line series of devices is also an excellent choice for redundant or N+1 installations where uninterrupted sanitization is required from cells deployed in parallel.

Applications

- Consumer Appliances: dishwashers, laundry machines, refrigerators, water filtration units, floor-care
- Plumbing Fixtures: sinks, toilets, showers, urinals, grey-water units
- Industrial & Commercial Appliances: ice makers, floor-care, food processing equipment, high-grade water filtration

Sanitize, Deodorize, and Preserve

Ozonated water is a highly effective sanitizing agent. It is particularly attractive as an alternative to chlorine because it kills a broader range of pathogens, acts more quickly, produces fewer by products and leaves no residue. Ozone can achieve pathogen reduction rates equivalent to heat treatments while using 95% less energy.



Technology Overview

Conventional ozone generators require a supply of air or oxygen as well expensive peripheral and safety components to produce ozone in effective concentrations. Adept cells use proprietary boron-doped diamond platen as anodes. A solid proton-exchange membrane (PEM) is used to conduct protons from the anode to the cathode. This action allows the cells to operate without the need for managing water conductivity.

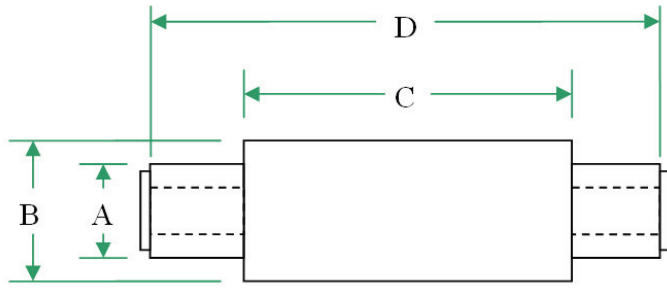
EOI's ultra-compact Adept ozone cells are available for integration in a variety of applications requiring compact ozone generation..

CLEAN, SAFE, IN-LINE SANITIZATION

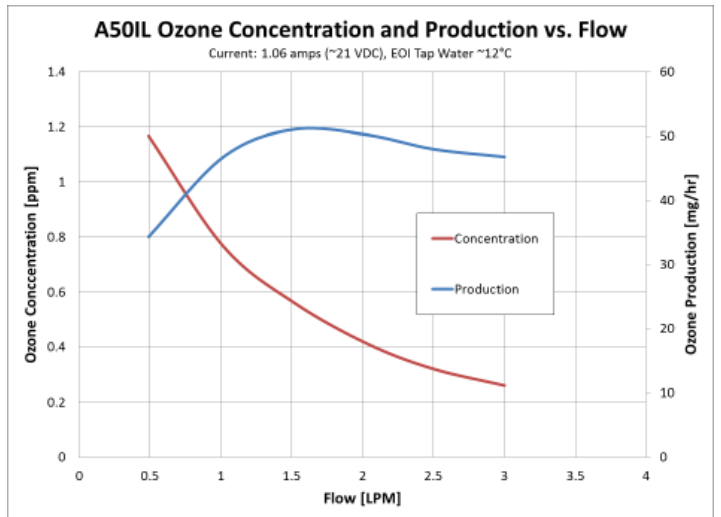
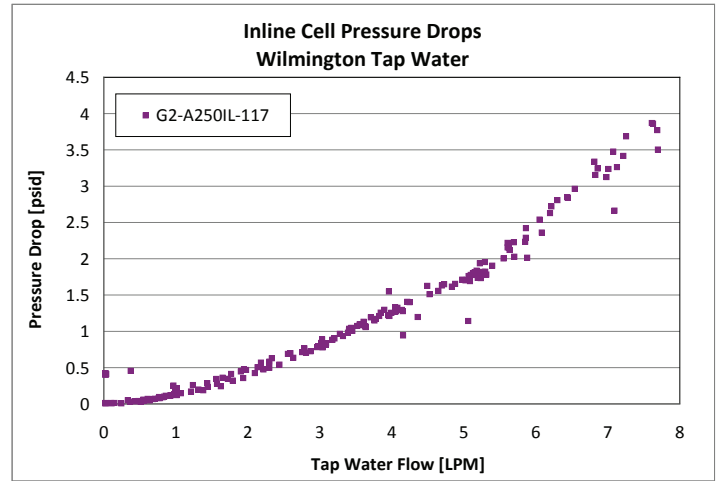
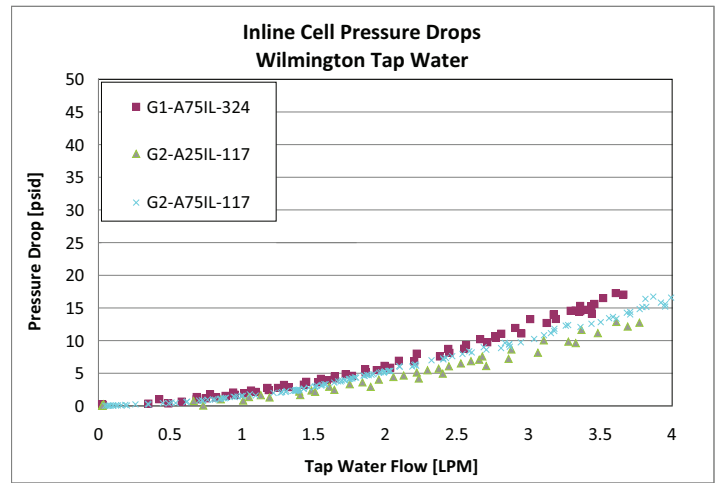
Specifications

Item	Specification
Ozone Production Rate	15 - 250 mg/hr *
Ozone Dispense Accuracy	± 20%*
Operating Pressure	125 PSI Max.
Operating Temperature	34°F (1°C) - 100°F (38°C)
Wetted Materials	Housing - PVDF Electrodes - Boron Doped Diamond/Titanium O-Rings - EPDM

*When operated in constant current mode with specified electrical drive signal while operating with preferred factors to the creation of ozone including but not limited to temperature, flow rate, and water quality.



Electrode Area (mm ²)	Push-In Tubing Size	Dimensions			
		A ϕ	B ϕ	C	D
25	1/4"	0.625	0.93	1.65	2.5
50	1/4"	0.625	0.93	1.65	2.5
75	1/4"	0.625	0.93	1.65	2.5
225	3/8"	0.79	1.32	1.84	3.25



Insure your application meets safety requirements as required by proper use and installation of the device as specified in the operating manual for the generator. Note the device must be protected by failsafe to insure no electrical drive without adequate flow. Additionally, protection from particulate matter capable of clogging the device must be provided.