



# OZONE GENERATOR

## Performance in a completely integrated package

Purfresh™ OG-4000 Series generators provide customers with a compact yet powerful purification solution, with completely integrated packages for purifying air or process water. The generators are entirely self-contained, and include air preparation, oxygen concentration, ozone generation, distribution, and closed-loop PLC-based control and communication. All of these features are contained in a compact 24" x 24" x 11" cabinet that can be wall or skid mounted.

### EFFICIENT OZONE PRODUCTION

OG-4000 Series generators produce efficient ozone output with high concentrations of ozone for maximum efficacy. Consistency and efficiency is obtained by integrating a complete air preparation subsystem that dries ambient air to -100°F dew point and produces feed gas that includes 93 percent oxygen for more consistent and efficient ozone output. In addition, the corona discharge, air-cooled, ceramic flat plate ozone cell includes a precisely machined gap for consistent production, as well as sophisticated electronics for efficient power utilization, safe and quiet operation, and precise control. Output can easily be increased by adding a slave generator(s) controlled by another 4000 series system.

### POWERFUL AND FLEXIBLE CONTROL

The OG-4000 Series generators come integrated with a programmable logic controller (PLC) that safely controls the entire system and gives operators flexibility in operation as well as communication.

The control software includes 1% to 100% linear turndown for targeted manual ozone distribution, as well as the ability to set specific PID values for automated, closed-loop control response. The integrated PLC contains an Ethernet interface to communicate back to the Purfresh Intellipur™ Command Center for remote diagnostics and control, and the PLC can easily be integrated into a larger, plant-wide SCADA system.



*For purifying air*

### RELIABILITY AND SIMPLE INSTALLATION

Purfresh OG-4000 Series generators are simple to get up and running quickly. The generators are small, so they're easy to mount on a wall or a skid, and they plug into a standard outlet. They are air-cooled, eliminating the plumbing and maintenance issues that come with water-cooled solutions. An air-preparation subsystem is included in the generator with an oxygen concentrator and a compressor, so no extra plumbing is necessary to connect the generator to an external compressor or house air.



*For purifying water*

## KEY FACTS

Integrated system in small package

- Wall or skid mounted
- Integrated air preparation
- Integrated PLC-based closed-loop control

Flexible communication

- Ethernet communication
- Remote diagnostics, troubleshooting, alarming, and reporting with Intellipur
- Integration into plant-wide SCADA

Plug-and-play installation

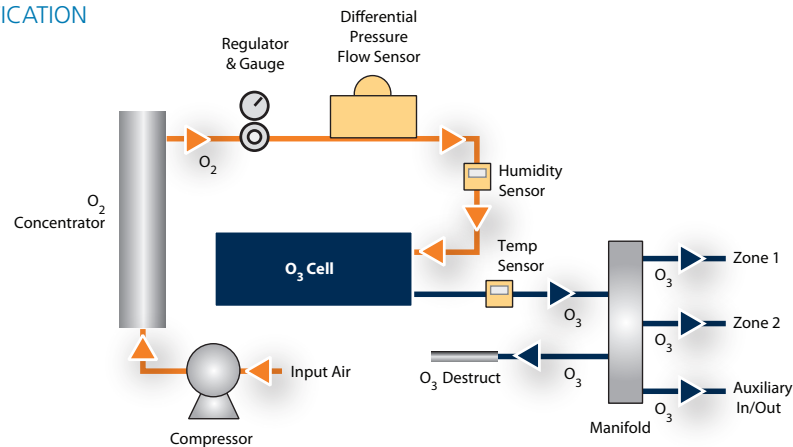
- Plug into standard outlet
- Air-cooled eliminates plumbing
- No external compressor needed

# PURFRESH OZONE GENERATOR: OG-4000 SERIES

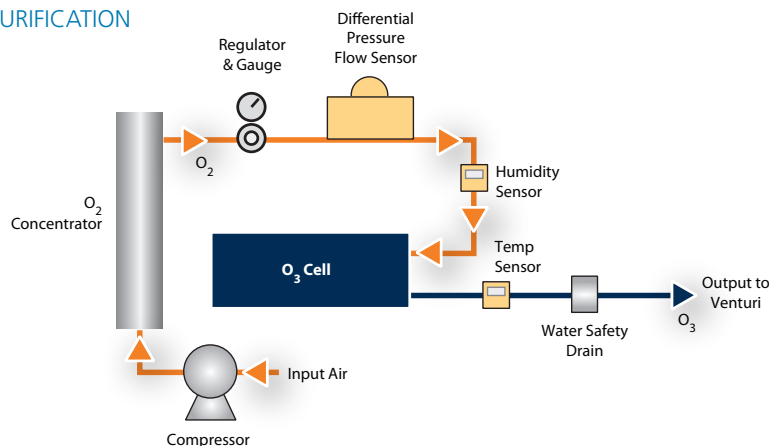
## SPECIFICATIONS

	4000-MA	4000-EA	4000-IA	OG4X00	OG4X50
CABINET TYPE	Air/Water	Air/Water	Air/Water	Air	Water
O3 OUTPUT	1 lbs/day @ 8.5% (20 g/hr), 2.0 lbs/day @ 6.0% (38 g/hr), 3 lbs/day @ 3.7% (56 g/hr)				
O3 GENERATOR TECHNOLOGY	Air-cooled, corona discharge, ceramic dielectric flat cell				
AIR PREPARATION PACKAGE	External O2 concentrator and compressor			Internal	
AIR PREPARATION SPEC	93% oxygen output @ 7.5LPM (16 CSFH) @ 10psig and -100°F dew point				
CONTROL SYSTEM	Manual flow, pressure or External PLC	Closed-loop PLC-based control and manual 1%–100% linear turndown			
HMI	LED visual O3 indicator	4.3" diagonal color touch screen HMI	Intellipur Site Monitoring Workstation		4.3" diagonal color touch screen HMI
COMMUNICATION	None		Wireless 802.11 to local Intellipur Workstation		Ethernet from PLC
DIMENSIONS	24" x 24" x 11" (61cm x 61cm x 28cm)				
WEIGHT	70 lbs (32 Kg)	75 lbs (34 Kg)		120 lbs (54 kg)	
OPERATING TEMPERATURE	32°F – 77°F (0°C–25°C)				
CABINET	Aluminum, NEMA12				
POWER REQUIREMENTS	120 or 220 VAC single phase, 50–60 Hz				
POWER CONSUMPTION	500 Wh			1kWh	

## OZONE GENERATION - AIR PURIFICATION



## OZONE GENERATION - WATER PURIFICATION



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**purfresh**  
 Purify, Protect, Preserve.

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DS-OG4000-0709