

# OWS SMART-AC GENERATOR

## STATE-OF-THE-ART OZONE GENERATION FOR A VARIETY OF APPLICATIONS.

Our new Self-Monitoring, Active Response Technology (SMART) generators are quiet running, air cooled ozone generators and are available with an optional UL rating. The non-metallic, clear-covered enclosure cover allows a simple visual inspection of ozone status via a blue light when running or red when faulted. A front panel touchscreen HMI and color digital displays display ozone production, cell pressure status, feed oxygen concentration, trend screens, any fault indications, and an alarm log. SMART units come standard with auto-regulation of cell pressure, a pressure indicator, gas no flow switch, scaled flow indicator, a flow control valve, cabinet filter, and dry contacts to output generator status.

SMART series generators can be ordered in 110-120 or 208-240 VAC (50/60 Hz) configurations. They employ a main power switch as well as accepting input via local control or remote control by way of analog 4-20 mA signal to perform soft shutdowns (stopping ozone generation only) and hard shutdowns (stopping all operation). All SMART generators include a “silent” 25 kHz inverter, precise 10:1 linear turn down, and accept supply oxygen feed gas in a pressure range of 15-150 psi. Safeties include built-in ambient ozone monitor, internal oxygen analyzer, temperature limiters, low gas flow trip, low gas pressure trip, and inverter/power trip.



### Key Facts

- 1-120 grams/O<sub>3</sub>/hr
- Internal Oxygen Analyzer (standard)
- Color HMI Display/Control
- Linear Turndown
- 15-150 (1-10 bar) feed pressure
- Pressure Display
- “Silent” Ozone Production
- Power Disconnect Switch
- UL Listed Generator (optional)
- Remote 4-20 mA direct, PID, or local “hand” control
- Cabinet Temperature Monitor / Display / Alarm
- Ambient Ozone Monitor / Display / Alarm
- Program Updates via USB stick, as required
- 110-120 / 208-240 Volt, 50/60 Hz
- Discrete Power Terminals, U.S. Domestic Power Cord (optional on 50 gm/hr or smaller units)

Ozone Water Systems is a global provider of turnkey ozone system design, installation, and service for all disinfection and advanced oxidation processes up to 5000 lbs. per day of ozone. Here are just a few markets that utilize our industry leading ozone systems:



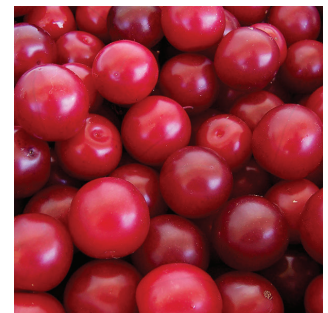
Aquaculture



Water Treatment



Food & Beverage



Cold Storage

# OZONE WATER SYSTEMS OZONE GENERATOR: OWS-AC

## SPECIFICATIONS

TYPE	Corona Discharge
CELLS	Modular multi-electrode ceramic dielectric
COOLING	Air cooled
MAXIMUM PRESSURE	150 psi (10 bar)
POWER INVERTER	Modular, high frequency, resonant mode, computer controlled, monitored, LED indicators
CABINET	Non-metallic clear-covered enclosure with cabinet filter and cooling fan
OPERATING TEMPERATURE	1°C to 38°C, 35°F to 100°F
POWER*	110/120VAC single phase, 50-60 Hz or 208/240VAC single phase, 50-60 Hz (model dependent)
OPTIONS	US domestic power cord (110/120VAC model only)
	External dew point in place of O <sub>2</sub> board

\* Specify voltage when placing order.

## CONTROLS

TYPE	DESCRIPTION
Analog Input, 4-20mA	Direct Control or Scale for ORP w/ PID or Scale for DO <sub>3</sub> w/ PID
Modbus® Ethernet	RJ45 port on cabinet exterior
Soft Shutdown - Input	Ozone production stops, gas flow continues
Hard Shutdown - Input	Ozone production stops, gas flow stops
External Fan Control - Output	Ambient ozone detection ozone triggers room Uniform Fire Code (UFC) exhaust fan
External RAP Control - Output	Ambient ozone detection energizes Remote Alarm Panel (RAP) and triggers external alarm
Feedgas Pressure - Output	Contacts change state to indicate oxygen pressure in range
Gas Flow - Output	Contacts change state to indicate oxygen flow above minimum
Collective Falut - Output	Contacts change state to generator is powered and not faulted
Inverter Running - Output	Contacts change state to indicate inverter is commanded to Run
Inverter Fault - Output	Contacts change state to indicate inverter faulted while Running

## CONFIGURATION DATA

MODEL	OWS010	OWS020	OWS050	OWS070	OWS120
MAX OZONE OUTPUT	10g/hr	20g/hr	50g/hr	70g/hr	120g/hr
FLA @ 110-120V / 1 PH	1.9	2.9	6.0	n/a	n/a
FLA @ 208-240V / 1 PH	1.0	1.5	3.0	5.0	7.2
OPERATING PRESSURE	15 psi O <sub>2</sub>	15 psi O <sub>2</sub>	15 psi O <sub>2</sub>	15 psi O <sub>2</sub>	15 psi O <sub>2</sub>
INLET/OUTLET TUBE SIZE	1/4" OD tube	1/4" OD tube	1/4" OD tube	3/8" OD tube	3/8" OD tube
MAX O <sub>2</sub> FLOW RATE	13 scfh/6 slpm	13 scfh/6 slpm	27 scfh/13 slpm	40 scfh/19 slpm	66 scfh/31 slpm
DIMENSIONS (H x W x D)	25" x 26" x 15"	25" x 26" x 15"	25" x 26" x 15"	30" x 26" x 15"	39" x 32" x 22"
WEIGHT (APX.)	95 pounds	96 pounds	100 pounds	132 pounds	185 pounds



Quality. Pure & Simple.