

purfresh™

# OZONE GENERATOR

## Patented ozone technology is easy to install, operate and maintain

Purfresh industrial ozone generators combine the best available corona discharge technology with patented thermoelectric cooling, microcomputer control and remote monitoring. The generator includes oil-free, dry air preparation, ozone generating cells, power supplies and an on-board microcomputer. The microcomputer precisely controls all generator functions and can direct the supply of ozone to a single process or to multiple outputs for independently controlled separate processes. Service is accomplished by replacement of standardized plug-in modules. All components are safely housed in a NEMA 3R weather tight cabinet. Combining the generator with Purfresh contacting, monitoring and control products provides single source, cost-effective ozone treatment solutions.

### OZONE CELL

The corona discharge micro gap cell utilizes a ceramic dielectric with multi-stage production. The cell is cooled by a patented thermoelectric cooling system. Each cell operates with its own power supply.

### POWER SUPPLY

The high frequency, high efficiency power supply minimizes nitrogen by-products and optimizes power consumption. Each power supply is controlled by the microcomputer so that power is modulated to the ozone cells to ensure that ozone output continuously tracks system demand.

### MICROCOMPUTER/CONTROLLER

The generator includes a microcomputer that continuously monitors system parameters and controls the output of ozone to setpoint levels on up to four process control loops. It includes nonvolatile memory for setpoints, run times, configuration diagnostics and a real time clock. An integrated modem allows generator parameters to be remotely monitored and controlled by the user, as well as providing direct access for Purfresh technical support.



## KEY FACTS

Reliable, safe, cost effective

Computer controlled operations

Easily maintained

Simple to expand capacity

Patented on-board thermoelectric cooling eliminates need for cooling water

Matching contacting, monitoring and venting systems available

World-class service and support

## OZONE ADVANTAGES

Ozone is the safest and most natural purification and disinfection agent for fresh produce. It is approved by the FDA and USDA as a food contact substance and is certified organic.

Ozone's method of action is to destroy the cell wall of the organism upon contact. Because it works instantly, ozone does not enable the development of resistant pathogen strains, an increasing problem for the produce industry.

Generated from the oxygen in air, ozone reverts to pure oxygen after doing its job, leaving no residue on produce. Ozone is made on-site; no delivery or storage of toxic chemicals required. At the levels Purfresh recommends, ozone is safe for people, product, equipment and the environment.

# PURFRESH OZONE GENERATOR: NZ-6000 SERIES

## SPECIFICATIONS

TYPE:	Corona Discharge
CELLS:	Modular multi-electrode ceramic dielectric, integral cell pressure regulator, Teflon seals
COOLING:	Thermoelectric and air
MAXIMUM PRESSURE:	12 psi
POWER SUPPLY:	Modular, high frequency, resonant mode, computer controlled, monitored, LED indicators
CABINET:	Welded aluminum, NEMA 3R, white finish (Stainless steel optional)
OPERATING TEMPERATURE:	1°C to 38°C, 35°F to 100°F (Air conditioned cabinet available for higher ambient temperatures)
POWER:	208 VAC 3 phase, L1, L2, L3 N, GND, 50-60 Hz
OZONE OUTPUT:	1 – 8 lbs per day (1-4 cells)
OPTIONS:	Dryer, external oxygen generator, external compressor
CABINET DIMENSIONS:	78" x 34" x 22" (180 cm x 86 cm x 56 cm)

	AIR (PLANT AIR NOT REQUIRED)				OXYGEN (EXTERNAL OXYGEN SUPPLY REQUIRED)			
MODEL:	6002	6004	6006	6008	6504	6508	6512	6516
NUMBER OF CELLS:	1	2	3	4	1	2	3	4
NOMINAL OZONE (PPD):	1	2	3	4	2	4	6	8
CURRENT 208 VAC:	7 Amps	8 Amps	9 Amps	10 Amps	2 Amps	3 Amps	4 Amps	5 Amps
WEIGHT:	430 lbs	500 lbs	570 lbs	640 lbs <td 180 lbs	240 lbs	300 lbs	360 lbs	

## GENERATOR SCHEMATIC

