

Casino Air Molecular Oxidizer



FEATURES

- Uses patented Singlet PentaRod Core design to create ozone from atmospheric oxygen.
- Instantly oxidizes offensive odors and reduces eye-burning volatile organic compounds
- Universally adaptable, models for every HVAC system and application
- Very low-maintenance, only quarterly cleanings in most applications
- Zero replenishment expense, nothing to refill
- Microprocessor-controlled ozone sensors built into each generator to maximize customer and employee comfort, insure compliance with all government standards
- Made in the U.S.A.
- All major components UL/CSA approved
- Environmental cabinet for exterior use

APPLICATION

The Casino Air Molecular Oxidizer utilizes patented Singlet PentaRod Core design, a unique 'double-dielectric-barrier micro-discharge technology, to create ozone from atmospheric oxygen. The ozone is injected into the HVAC system and circulated through the supply air ductwork.

Ozone instantly oxidizes and totally eliminates tobacco odors in the ventilated space and, over time, oxidizes and eliminates the embedded odors which accumulate in the finish surfaces of all commercial businesses which cater to a smoking clientele.

Through oxidation, ozone also greatly reduces other offensive gases and eye-burning volatile organic compounds found in environmental tobacco smoke, as well as most of the chemicals found in all commercial buildings even where smoking isn't permitted.

Microprocessor Controlled Sensors regulate the flow of ozone and optimize indoor air quality. The Casino Air Microprocessor constantly samples the air as it passes through the return duct. This allows us to create a totally controlled environment on the casino floor free of tobacco smoke and odor.

The sensor is programmed to instantly shut down the Molecular Oxidizer if the ozone concentration reaches 50 ppb. Typical levels inside a casino with Casino Air installed is in the 20-30 ppb range, almost always lower than the atmospheric ozone level outside. After a thunderstorm, ambient levels are typically 150 ppb or higher.



SPECIFICATIONS

Applications:
Commercial IAQ

Cabinet Construction:
16 Gauge aluminum / powder coated

Collar Connection:
2.5 ID, 3.5 ID, 4.5 ID

Particulate Filter Size:
6 x 6 x 1, 10 x 6 x 1, 11 x 11 x 1

Power Requirements:
120v @ 60 hz, < 5 amps,
conventional three-prong receptacle

MONITOR:

Range:
.01 to .14 ppm of ozone

Response Time:
Instantly

Measurement Principle:
HMOS (heated metal oxide semiconductor) sensor

Mounting:
Inside cabinet

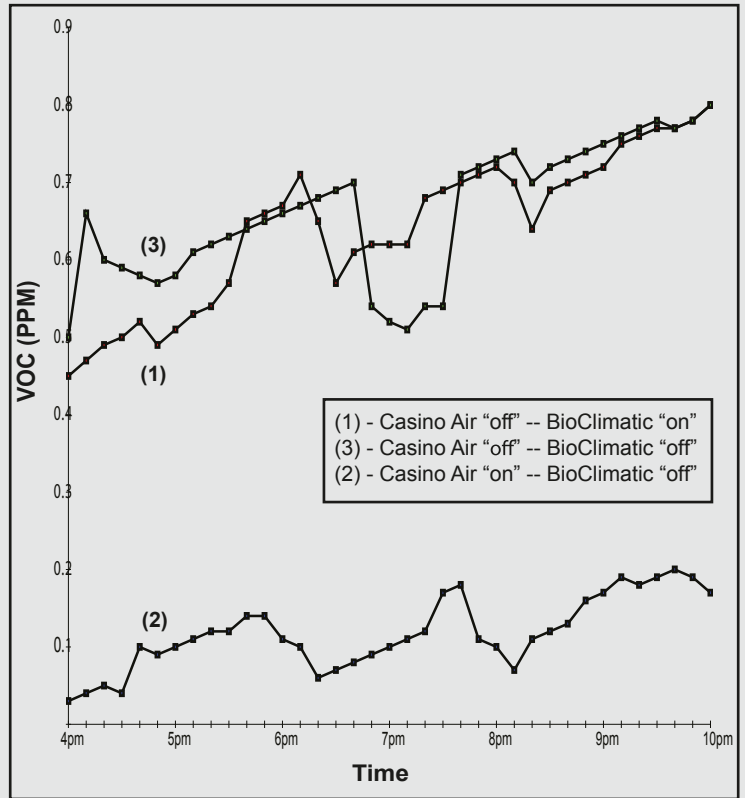
Sensor Cord:
Up to 100 feet remote

Specifications:

Model	CA500GX	CA1000GX	CA1500GX	CA2000GX
Dimensions:	22 x 24 x 10	24 x 24 x 14	36 x 24 x 14	36 x 24 x 14
Weight:	35	70	90	95
Amps:	1.4	2.8	4.1	4.8
Collar Connection:	2.5 ID	3.5 ID	4.5 ID	4.5 ID
Particulate Filter Size:	6 x 6 x 1	10 x 16 x 1	11 x 11 x 1	11 x 11 x 1
Power Requirements:	120v @60hz, 1.4 amps	120v @60hz, 2.8 amps	120v @60hz, 4.1 amps	120v @60hz, 4.8 amps
Cabinet Construction:	16 Guage aluminum	16 Guage aluminum	16 Guage aluminum	16 Guage aluminum



Casino Air vs. Bi-polar Ionization



The test results above demonstrate the effectiveness of Casino Air Molecular Oxidizers at reducing odors and total VOC's by 85 percent or more.

The HVAC system at the casino where the test was conducted ran at or near 100 percent outside air with a minimum outside air set point of 50 percent. Despite the high ventilation rate common in most modern casinos, customer complaints about tobacco odors were common, and increased with the age of the casino.

Test equipment:

EcoSensor VOC Sensor Model C-20, solid state gas monitor designed for sensing general magnitudes of volatile organic compounds (VOCs) Sensor type: Heated semiconductor Sensitivity: .001 — .9 parts per million Onset: Tattle Tale Model 8; multichannel data logger controlled by Motorola 68332 and PIC 16C64 processors. Eight, 12-bit analog inputs, 14 TPU channels, and two RS232 ports. 100 Khz sampling rate using C,2 Khz sampling with Tx basic.

Test parameters:

Three-day, six-hour air sampling tests Sample 1: 8/24/96, 1600 hours through 2200 hours (4 to 10 p.m.)

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