

## OREC™ 0500-0900 OZONE TEST CHAMBERS

### FEATURES

- Touch-Screen Interface
- PLC Control System
- UV Absorption Ozone Measurement
- Conforms to ASTM, International, and US Military Standards
- Solenoid Door Interlock

### BENEFITS

- Computerized Data Logging
- Fast Response Time Between Test Cycles
- Simple "Set and Forget" Operation
- No Chemicals Required



*OREC ozone generators and test equipment... an industry standard for 43 years!*

### DESCRIPTION

The OREC 0500-0900 Series Ozone Test Chamber provides continuous ozone measurement and control in one self-contained unit, factory-tested, and ready to operate. The measurement system incorporates the reliable Orec Model DM100 Ozone Monitor, which employs the ultraviolet (UV) absorption principle for ozone measurement. This automatic ozone measurement and control system is specific to ozone and does not require operating chemicals.

Temperature and ozone settings are entered via a touch-screen, which provides a simple user interface. The control system automatically adjusts its output to compensate for outside factors such as temperature and humidity. These variables may affect stability in manually controlled units.

Other advantages of this automatic control system include: rapid resumption of ozone concentrations between test cycles; tests proceed unattended; fast response to set point changes. OREC Ozone Test Chambers are the industry standard choice for reliable laboratory testing.

### Ideal For...

*Accelerated Aging Studies  
Materials Quality Testing  
Laboratory Testing*



## SPECIFICATIONS

Model	Ozone Range	Applicable Test Specifications	Net Oven Dimensions W x D x H In (cm)	Ozone Generator	Inlet Air Flow (CFM)	Exterior Dimensions W x D x H In (cm)	Net Weight Lb (kg)
0500	0-250 PPHM (0-1000 PPHM)*	ASTM D1149, D1171, D3041	24x18x20 (61x46x51)	Quartz Ultraviolet	0-6	48x25x33 (122x64x84)	400 (180)
0900	0-250 PPHM (0-1000 PPHM)*	ASTM D1149, D1171, D3041	30x30x30 (76x76x76)	Quartz Ultraviolet	0-15	54x36x45 (137x91x114)	580 (261)
0500A	10-300 PPM	ASTM D470, D1352, D1373	24x18x20 (61x46x51)	Corona Discharge	10-20	48x25x33 (122x64x84)	600 (273)
0900A	10-300 PPM	ASTM D470, D1352, D1373	30x30x30 (76x76x76)	Corona Discharge	10-20	54x36x45 (137x91x114)	780 (355)
0500C	0-250 PPHM (0-1000 PPHM)* 10-300 PPM	ASTM D1149, D1171, D3041, D470, D1352, D1373	24x18x20 (61x46x51)	Quartz Ultraviolet & Corona Discharge	0-61 10-20	48x25x33 (122x64x84)	620 (282)
0900C	0-250 PPHM (0-1000 PPHM)* 10-300 PPM	ASTM D1149, D1171, D3041, D470, D1352, D1373	30x30x30 (76x76x76)	Quartz Ultraviolet & Corona Discharge	0-15 10-20	54x36x45 (137x91x114)	800 (364)
All	Measurement Accuracy: 3% of Reading Control Accuracy: 4% of Set Point			Temperature: Up to 90° C (194° F) Open Air Velocity: In excess of 2 ft/sec			
Test Methods	ASTM D470, D518, D1149, D1171, D3395, D4575, D4676; ISO 1431 Optional fixtures are requires for some test methods.						

## CONSTRUCTION AND WARRANTY

OREC Test Chamber exteriors are painted with a blue industrial epoxy with black trim and finished with chrome hardware. Stainless steel is used on the interior oven. A glass observation window and shielded oven lamp provide for non-glare sample observation. The stainless steel interior is welded and all seams are sealed with structural adhesive. An ozone-resistant silicon rubber gasket is used to ensure leak proof operation of the door.

All Test Chambers are complete and integral, ready for plug-in operation upon receipt by the customer. Each is provided with a comprehensive 12-month warranty against defects in material and workmanship. Over 43 years of ozone experience with high engineering standards and rigid quality control procedures combine to make OREC Ozone Test Chambers the most reliable and maintenance-free environmental test chambers available.

## OPTIONAL FEATURES AND ACCESSORIES

- Custom Stands (Included A&C Models)
- Refrigeration (Includes Stand)
- Computer Data Logging and Analysis
- Static Stretching Apparatus Conforms to ASTM D518 Methods A, B, and C
- OREC Dynastretch (Dynamic Rubber Stretching Apparatus) is in compliance with ASTM D3395 A.
- Mold for D1171; Triangular
- Fixture and cutter For D1149
- \*Second UV Lamp

## CONTACT INFORMATION

Corporate Consulting Service Instruments, Inc.  
1145 Highbrook Ave. Suite 500  
Akron, OH 44301 USA  
Phone 330.376.3600 Fax: 330.376.8500  
[www.ccsi-inc.com](http://www.ccsi-inc.com) [www.orecozone.net](http://www.orecozone.net)

A2LA Accredited Calibration Laboratory #1424.01  
ISO/IEC 17025 Registered

**MANUFACTURED IN AKRON, OHIO USA**