OZONE TEST CHAMBER

MODEL OTC-RU

Rubber, Cables, Fender & Elastomer Testing Ozone Chamber

For Determining Ozone Resistance, Ozone Cracking, Life Testing based on Ozone Climate Control

As per ASTM, ISO Test Standards

Custom Built as per ISI, MIL, SIS, NGF, DIN, BS, JIS, FT Test Standards

FEATURES:

- Highly accurate UV Absorption based ozone measurement method
- Fully automatic programmable Climate Control System with optional Temperature and Humidity Control
- Excellent repeatability and Control Accuracy
- Menu driven display makes operation simple
- Closed Loop Fuzzy Logic Control System ensures highly stable ozone concentration level
- Built in Safety interlocks with integrated Ozone Destruct System for environmentally safe operation
- Calibration traceable to NIST

APPLICATIONS:

- Testing of Rubber and Elastomer
- Meets most International Test Standard
- Testing material for environmental

The OTC-RU Test Chamber series is designed to test Rubber Material for Ozone Resistance. The Ozone Test Chamber consists of four integrated modules: Ozone (O_3) Concentration, optional Humidity and Temperature Controlling Module, Ozone Generating Module, Test Chamber Module, Safety Interlocks Modules.

The Ozone Monitoring and Ozone Generating Module work together via Closed Loop Fuzzy Logic Control System to provide highly stable ozone concentration and other Process Parameters over the test period.

The chamber can be programmed for ozone concentration, test start time and test duration. During the test user intervention is not required, the test chamber has Fuzzy Logic Control System that automatically ensures the programmed ozone concentration required for the duration of the test.

The Test Chamber Module is constructed of stainless steel. The chamber is provided with a door with a silicone door seal for positive sealing and also includes a glass-viewing window for environmentally safe operation. The Safety Interlocks Module automatically shuts down ozone generator whenever the test chamber door is open and locks the chamber door whenever the ozone concentration is above the safe levels.

Your Partner for Instrumentation & Control

Ozone Analyzer From: IN USA INCORPORATED
87, Crescent Road Needham, MA 02194 U.S.A
Tel.: 1-781-444-2929 **Fax:** 1-781-444-9229, **Website:** www.inusaozone.com

Manufactured and Service by: GORDON SOLUTIONS
21, Saptkiran Society, Nr. Nehrunagar Cross Road, Ambavadi, Ahmedabad-380 015
Phone: +91-79-26308326 **Mobile:** +91-98245 96061
Email: gordonsolutions21@gmail.com

OZONE TEST CHAMBER

Model OTC-RU

SYSTEM SPECIFICATIONS

Model	RU1	RU1A	RU2	RU2A	RU3	RU3A
Testing Methods: [1]	C, D, F, H, G, I, J		A, E, F, G, H, J, I		A, C, D, F, G, H, I, J	
Ozone Generator:	Quartz UV		Corona Discharge		Quartz UV & Corona Discharge	
Ozone Range:	0–250 pphm 0–1000 pphm*		0–300 ppm		0–250 pphm, 0–300 ppm, 0–1000 pphm*	
Inlet Air Flow: CFM	0–6	0–15	10–20	10–20	10–20, 0–61	10–20, 0–15
System Accuracy:	Measurement: 1% of reading or better				Control: 5% or better	
Temperature:	Ambient to 91° C ± 1 °C					
Humidity: Θ	Range: Ambient to 95% ± 2% RH					
Chamber Dimensions: **	A	B	A	B	A	B
Oven Chamber: m³	0.142	0.443	0.142	0.443	0.142	0.443
Exterior Dimensions: [2]	X	Y	X	Y	X	Y
Net Weight: kg	180	261	273	355	282	364

[1] Test Method References

(A)	ASTM D470	Cross linked Insulations and Jackets for Wire and Cable
(B)	ASTM D518	Rubber Deterioration–Surface Cracking
(C)	ASTM D1149	Rubber Deterioration–Surface Ozone Cracking in a Chamber
(D)	ASTM D1171	Rubber Deterioration–Surface Ozone Cracking Outdoors or Chamber
(E)	ASTM D1352	Ozone–Resisting Butyl Rubber Insulation for Wire and Cable
(F)	ASTM D3395Θ	Rubber Deterioration–Dynamic Ozone Cracking in a Chamber
(G)	ASTM D4575	Rubber Deterioration Reference and Alternative Method(s) for Determining Ozone Level in Laboratory Test Chambers, (Method A Only)
(H)	ISO 1431–1: 1989	Resistance to ozone cracking – Part 1: Static strain
(I)	ISO 1431–2: 1994 Θ	Resistance to ozone cracking – Part 2: Dynamic strain test
(J)	ISO 1431–3: 2000	Resistance to ozone cracking – Part 3: Reference and alternative methods for determining the ozone concentration in laboratory test chambers

* With UV lamp/ Corona Discharge Ozone Generator

** Oven Dimensions

A	cm (in)	59 x 44 x 49 (23 x 17 x 19)
B	cm (in)	74 x 74 x 74 (29 x 29 x 29)

[4] Exterior Dimensions

X	cm (in)	120 x 62 x 82 (47 x 24 x 32)
Y	cm (in)	135 x 89 x 112 (53 x 35 x 44)

Test specimen die, mandrel, test rig as per Test Standard ASTM D1149, ASTM D1171, ISO 1431-1: 1989 also Available at competitive Rates

*Specification may change without prior notice

Θ Optional Features

Note: Tailor made Climatic Control; Ozone Test Chamber can be made meeting your requirement of Chamber size, Air Changes, Temperature and humidity range.

Your Partner for Instrumentation & Control

Ozone Analyzer From: IN USA INCORPORATED
87, Crescent Road Needham, MA 02194 U.S.A
Tel.: 1-781-444-2929 **Fax:** 1-781-444-9229, **Website:** www.inusaozone.com

Manufactured and Service by: GORDON SOLUTIONS
21, Saptkiran Society, Nr. Nehrunagar Cross Road, Ambawadi, Ahmedabad-380 015
Phone: +91-79-26308326 **Mobile:** +91-98245 96061
Email: gordonsolutions21@gmail.com