OREC™ L Series (Laboratory Type) *Ozonator*: Description

L Series (Laboratory Type) Ozone Generator

The OREC™ L Series *Ozonators* (ozone generators) are ideal for laboratory, benchtop or tabletop operation. Compact and lightweight, these units output ozone up to 60 g/hr (grams per hour) with concentrations to 8 percent by weight.

The OREC™ L Series *Ozonator* cabinets are designed for durability and ease of use.

The *Ozonator* controls and connections are mounted on an anodized aluminum front panel for quick, simple set-up and operation. Ozone is generated with a lower voltage, at a high frequency... optimizing the dielectric area for ozone production and efficiency!

The OREC™ L Series *Ozonator* reactor cell components are made from titanium and ceramic which are impervious to ozone, extending the life of the generator.

These ozone generators are notably stable and the ozone gas is extremely pure since there is no deterioration of internal materials.

OREC™ L Series (Laboratory Type) *Ozonator*: Standard & Optional Features

Standard features include:

- Tabletop design;
- Front panel mounted controls & connections;
- Air cooled ceramic & titanium reactor cell;
- “Plug-and-Play”;
- Pecision flow meter;
- Over temperature auto shut-off control.

Available optional features:

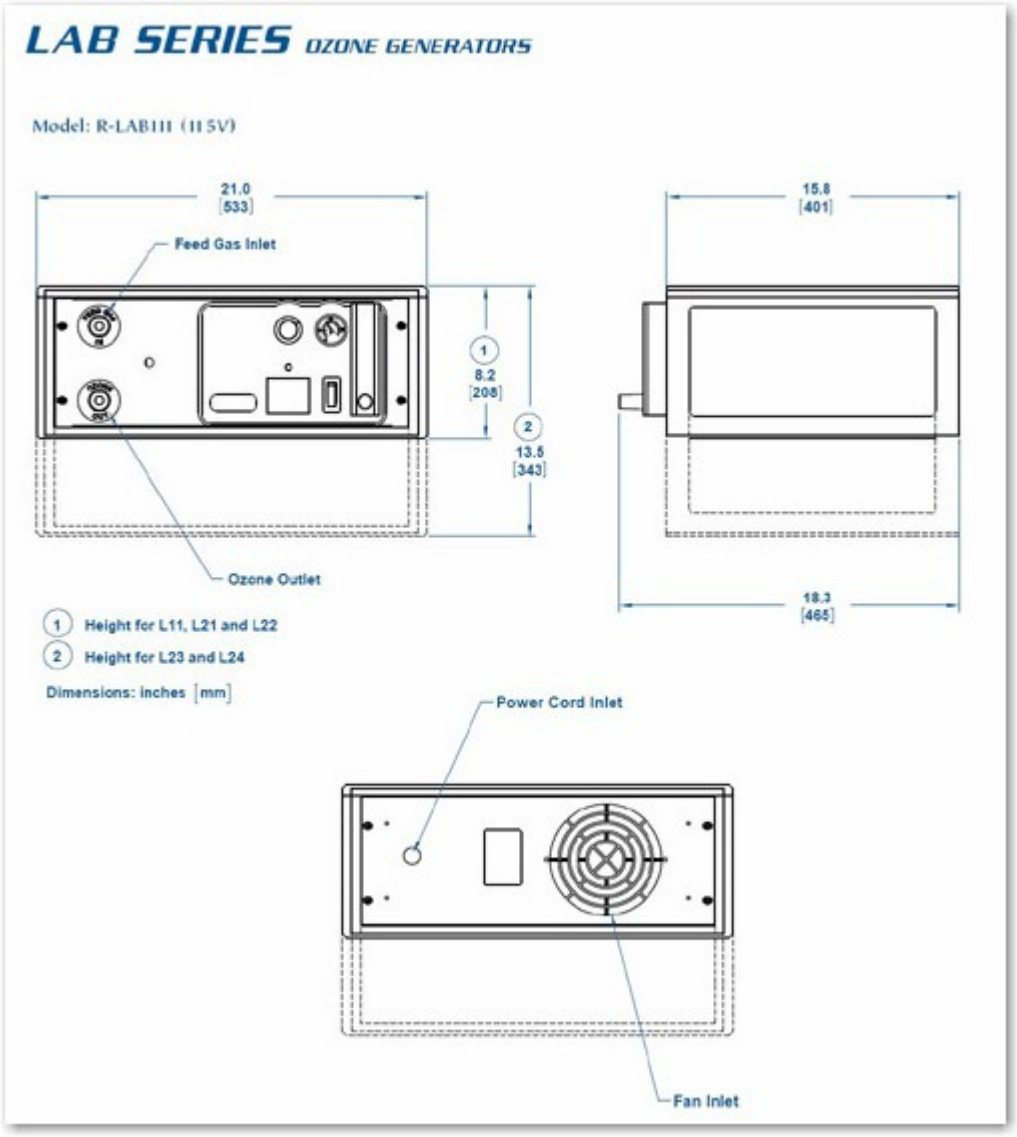
- Automatic proportional control: 0 — 10 VDC;
- Ozone side stream flow meter;
- Oxygen Generator (feed gas supply);
- 12 VDC power system;
- 220 VAC 50/60 Hz.

OREC™ L Series (Laboratory Type) *Ozonator*: Controls

- Variable output control: 0 — 100%;
- Inlet pressure gauge: 0 — 100 PSI;
- Feed gas flow control: 0 — 10 SCFH;
- Reactor pressure control;
- Reactor pressure gauge;
- Power feedback reference meter;
- LED ozone indicator.

OREC™ L Series (Laboratory Type) *Ozonator*: Specifications

Model:	LO 11	LO 21	LO 22	LO 23	LO 24
Model Number Voltage (AC):	LAB111 115 VAC	LAB211 115 VAC	LAB221 115 VAC	LAB231 115 VAC	
Model Number Voltage (AC):	LAB112 230 VAC	LAB212 230 VAC	LAB222 230 VAC	LAB232 230 VAC	LAB242 230 VAC
Ozone Production w/ O_2 feed gas: g/hr (lbs/day):	12 (0.6)	18 (1.0)	30 (1.6)	45 (2.4)	60 (3.2)
Oxygen Feed Gas Flow SCFH: Oxygen Feed Gas Flow (lpm):	7 — 10 (3.3 — 4.7)		7 — 20 (3.3 — 9.4)	10 — 30 (4.7 — 14)	10 — 40 (4.7 — 19)
Ozone Concentration O_2 Feed Gas:	8% by weight				
Ozone Production w/ dry air feed gas g/hr:	3.75	5.35	9.75	18.50	24.85
Dry Air Feed Gas Flow g/hr:	10		20	30	40
Dry Air Feed Gas O_3 Concentration:	1% — 2% by weight				
Maximum Reactor Pressure psi (bar):	12 (0.8)				
Feed Gas Flow Range SCFH:	0 — 10		0 — 20	0 — 30	0 — 40
Variable Control %:	0 — 100				
Power Consumption Watts:	230	335	370	440	530
Power Supply Fuse Ampere:	6		8	10	
Circuit Breaker Ampere:	15				
Air Cooling SCFM (lpm):	240 (6796)				
Feed Gas Inlet Connector:	0.25 inch (6.35 mm) female pipe thread NPT				
Ozone Outlet Connector:	0.25 inch (6.35 mm) male pipe thread NPT				
Power Requirement:	115 VAC 50/60 Hz 1 Phase				230 VAC 50/60 Hz 1 Phase
Dimensions (H x W x D, inches):	8.2 x 21 x 18.3			13.5 x 21 x 18.3	
Dimensions (H x W x D, mm):	208 x 533 x 465			343 x 533 x 465	
Weight (lbs.):	42	46	50	55	60
Weight (kg):	19.1	20.9	22.7	24.9	27.2



LARGER IMAGE

NIST Direct Traceability & ISO/IEC 17025 Accredited Calibration Laboratory

National Institute of Standards & Technology
Reports of Analysis

Direct (Primary) Traceability

NIST Report 839.03-03-155
NIST Report 839.03-05-168
NIST Report 839.03-08-004
NIST Report 839.03-09-142

American Association for Laboratory Accreditation

Instrument Calibration Certificate 1424.01
Mechanical Testing Certificate 1424.02

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Index Terms: OREC™, Ozone Research Equipment Company, ozone generation, ozonator, ozone generator,ozone, ozonize, ozonate, generator, OREC, osmonics, ozone technology, dissolved gas, corona discharge, uv, ultra violet, O3, ASTM D518, ASTM D1149, ASTM D1171, ASTM D3395, ASTM D4575, ozone research, rubber cracking, ozone resistance, rubber, crack growth, weathering, rubber deterioration, surface cracking, ozone cracking, ozone measurement, rubber test, ultraviolet, rubber degradation, ozone degradation.

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