

OREC™ Laboratory Type Ozonator: Description



The OREC™ Laboratory Type *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™ Laboratory Type *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™ Laboratory Type *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™ Laboratory Type Ozonator: Standard & Optional Features

Standard features include:

- Tabletop design;
- Rittal enclosure;
- Air cooled;
- “Plug-and-Play”;
- Oven 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™ Laboratory Type Ozonator: Specifications

Model:	LO 11	LO 21	LO 22	LO 23	LO 24
Ozone Production w/ O ₂ feed gas (g/hr):	10	16	30	45	60
Oxygen Feed Gas Flow (SCFH):	10		20	30	40
Ozone Concentration (%/wt):	4% – 8%				3% - 8%
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
Ozone Concentration (%/wt):	1% – 2%				
Maximum Pressure (psi/bar):	15 / 1.034				
Feed Gas Flow Range (SCFH):	0 – 20		0 – 50		
Variable Control (%):	0 – 100				
Power Consumption (Watts):	230	300	370	440	530
Power Supply Fuse (Ampere):	6		8	10	
Circuit Breaker (Ampere):	15				
Air Cooling (SCFM):	240				
Feed Gas Inlet Connector:	0.25 inch female pipe thread				
Ozone Outlet Connector:	0.25 inch male pipe thread				
Power Requirement:	115/230 VAC · 50/60 Hz · 1 Phase				
Dimensions (H x W x D, inches):	8.5 x 21 x 17			13.5 x 21 x 17	
Dimensions (H x W x D, mm):	215.9 x 533.4 x 431.8			342.9 x 533.4 x 431.8	
Weight (lbs.):	42	46	50	55	60
Weight (kg):	19.1	20.9	22.7	24.9	27.2

NIST Direct Traceability & ISO/IEC 17025 Accredited Calibration Laboratory

NIST

National Institute of Standards & Technology

Direct (Primary) Traceability

NIST Report 839.03-03-155
NIST Report 839.03-05-168



American Association for Laboratory Accreditation

Instrument Calibration Certificate 1424.01
Mechanical Testing Certificate 1424.02

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