Laboratory Ozone Generator

triogen® LAB2B is a corona discharge type ozone generator with variable ozone output. Producing up to 4g O_3/h using air and 10g O_3/h using oxygen. It is designed specifically for laboratory research.

APPLICATIONS

- Research and development
- Education

MAIN FEATURES

- Ozone generator producing up to 10g/hr for laboratory or educational use
- Feed gas: oxygen (PSA) or ambient air

TECHNOLOGY

The LAB2B ozone generator is a small air-cooled unit specifically designed for bench use incorporating function indicators, feed gas flowmeter and variable output control. Output variation is manually adjustable using a control knob mounted on the front panel.
Operating on various feed gases such as dried air or oxygen, the LAB2B is capable of producing concentrations up to 10% volume.

HOW IT WORKS

Ozone is produced when oxygen gas is passed over the ceramic dielectric of an ozone generating module . The module is powered by a high voltage/high frequency power board. The electronic power board is designed for either intermittent or continuous operation. The ceramic dielectric is housed within a finned heat sink block which is air cooled by fan assisted atmospheric air.

PRODUCT HIGHLIGHTS

- Variable ozone output up to 10g O_3/h
- Operate under vacuum or at maximum pressure of 10psig
- Illuminating switches indicating ozone production and faults
- Air cooled
- O&M manual including performance graphs
- Full twelve months warranty
- Technical backup facilities
- Feed gas: air or oxygen
- Compact dimensions

BIO UV Group

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TECHNICAL DATA MODEL	Ozone output [1]		Ozone output [2]		feed gas flow rate		Variable output control	Power supply	Power Consumption
	g/h	lb/h	g/h	lb/h	l/min	l/min oxygen	%	V / ph/Hz	W
LAB2B	4.0	0.14	10.0	0.35	4-10	2-5	15-100	230/1/50 OR 115/1/60	105

(1) feed gas: dry-air-60° C dewpoint
(2) feed gas: 100% oxygen

MODEL	LxHxW		Weight	
	mm	inch	lb	kg
LAB2B	350 x 160 x 300	13.8 x 6.3 x 11.8	13.2	6

TECHNICAL FEATURES

- **Operating method:** vacuum or pressure (10psi max.)
- **Module cooling medium:** ambient air (fan assisted)
- **Connections:** PVDF compression fitting to suit 8 mm (0.31 inch) OD PIPE

MATERIALS

- **Enclosure:** mild steel, epoxy coated
- **Module:** 316 stainless steel electrode assembly inside a ceramic dielectric tube supported by P.T.F.E end caps

REMOTE CONTROLS AND SIGNALS

- **Ozone ON-OFF:** green illuminator switch
- **Fault:** red illuminator switch
- **Flowmeter:** 2-10l/min

OPTIONS

- Additional LAB2B units for larger ozone output