



The water treatment specialist

ozone triogen® LAB2B

The **triogen® LAB2B** is a corona discharge type ozone generator with variable ozone output. Producing up to 4g O₃/h using air and 10g O₃/h using oxygen. It is designed specifically for **laboratory research**.

applications

- Research and development
- Education
- Laboratories
- Process validation (bench-scale trials)

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.

main features

- Variable ozone output up to 10g O₃/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
- Feed gas: oxygen (PSA) or ambient air
- Compact dimensions



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.

technical data

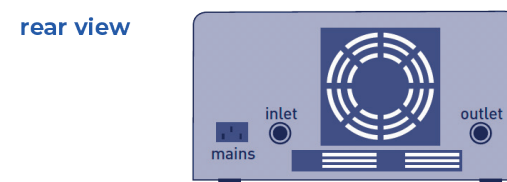
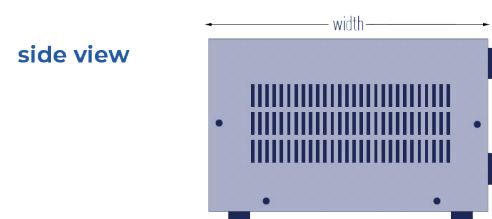
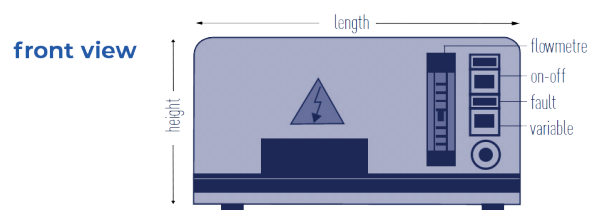
Model	Ozone output ⁽¹⁾	Ozone output ⁽²⁾	Feedgas flow rate		Variable output control	Power supply	Power consumption
	g/h	g/h	l/min	l/min oxygen	%	V / ph / Hz	W
triogen® LAB2B	4.0	10.0	4-10	2-5	15-100	230 / 1 / 50 or 115 / 1 / 60	105

⁽¹⁾ feed gas: dry-air-60° C dewpoint

⁽²⁾ feed gas: 90-99.7% Oxygen with minimum 0.3% Nitrogen

Voltage to be confirmed at time of order. For requests outside of technical specifications, please contact us.

Model	L x H x W	Weight
	mm	kg
triogen® LAB2B	350 x 160 x 300	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

controls and signals

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

contact

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