



OZONE

RESEARCH

BENCH-TOP

VARIABLE

← Applications

- Research and Development
- Education

← Main characteristics

- Ozone generator producing up to 10 g/h for laboratory use



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

MAIN FEATURES

- Variable ozone output up to 10g/h
- Operate under vacuum or at maximum pressure of 10psig
- Illuminating switches indicating ozone production and faults
- Air cooled
- Operating and maintenance manual included performance graphs
- Full twelve month warranty and technical backup facilities

OZONE TECHNOLOGY: LAB2B OZONE SYSTEMS

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 dry air or 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⁾ | | Feed Gas Flow Rate | | Variable Output Control | Power Supply | Power Consumption |
|-------|-----------------------------|------|-----------------------------|------|--------------------|----------------|-------------------------|--------------------------|-------------------|
| | g/h | lb/h | g/h | lb/h | ltr/min air | ltr/min Oxygen | % | v/ph/Hz | W |
| LAB2B | 4.0 | 0.14 | 10.0 | 0.35 | 4-10 | 2-5 | 15-100 | 230/1ph/50 or 115/1ph/60 | 105 |

(1) Feed Gas: Dry Air-60°C Dewpoint

(2) Feed Gas: 100% Oxygen

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

► Standards

- BS EN ISO 9002:94
- CE Approval

► Remote controls and alarms

- **Ozone On-Off:** green illuminator switch
- **Fault Red:** illuminator switch
- **Flowmeter:** 2–10 L/min

► Materials

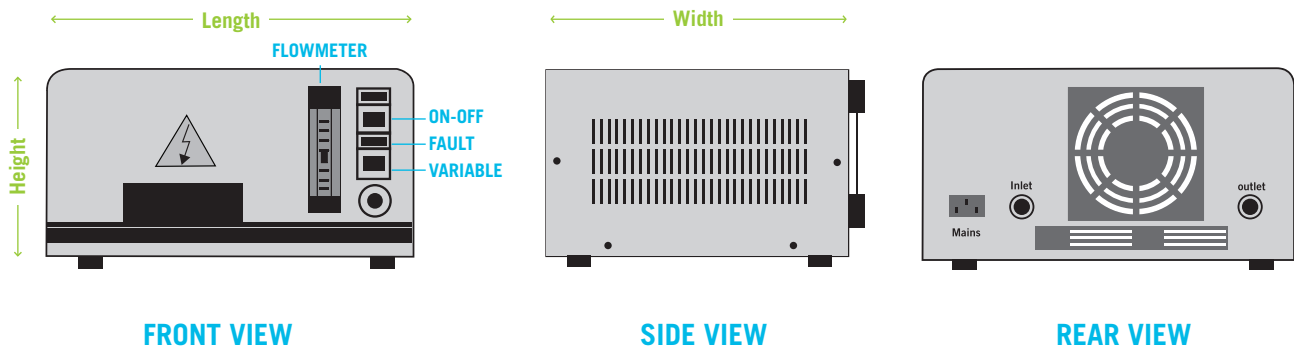
- **Enclosure:** mild steel, epoxy coated
- **Module:** 316 stainless steel electrode assembly inside a ceramic dielectric tube supported by P.T.F.E end caps

► Options

- **Additional LAB2B units for larger ozone output**

DIMENSIONS

| Model | l x h x w | | Weight | |
|-------|-----------------|-------------------|--------|-------|
| | mm | inch | kg | lb |
| LAB2B | 350 x 160 x 300 | 13.8 x 6.3 x 11.8 | 6 | 13.23 |



Contacts

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