

TECHNICAL DATA SHEET

ROG

Rugged oxygen generator providing a minimum of 90 litres of breathable oxygen



Applications

Safe supply of breathable oxygen for revitalisation in the following applications:

- First responders / emergency response

Dimensions

Depth x width (mm)	119 x 118 mm
Height (mm)	284 mm
Weight (kg)	2.3 kg



Properties

- Self-contained chemical generator requires no maintenance during storage.
- Produces a minimum of 90 litres of breathable oxygen @NTP over a minimum 15 minutes.
- Handheld operation.
- Unpressurised and non-explosive
- Tested in accordance with MIL-STD-810G.

Vibration (MIL-STD-810G, Method 514.7, Procedure I)	180 minutes (per axis) -Frequency Range: 10 to 500 Hz -Total Intensity: 2.56 Grms).
High Temperature (MIL-STD-810G, Method 501.5, Procedure III)	Humidity ≤20%, Duration 5.5 hours, Temp 45°C.
High Humidity and High Temperature (MIL-STD-810G, Method 507.5)	29.5°C (+/- 2°C) with 95 percent RH (+/- 2%) and 41°C (+/- 2°C) with 88 percent RH (+/- 2%).
Low temperature (MIL-STD-810G, Method 502.5, Procedure II)	5.5-hour duration at -13°C (+/-2°C)
Altitude (MIL-STD-810G, Method 500.5, Procedure II)	Tested at 10,000, 15,000 and 20,000 ft.
Blow Sand (MIL-STD-810G, Method 510.6, Procedure II)	90 minutes exposure.
Blow Rain (MIL-STD-810G, Method 506.6, Procedure I)	2 inches of water per hour with a 40-mph wind velocity maximum exposure in each orientation 30 minutes.
Operational Drop Test (MIL-STD-810G, Method 516.6, Procedure IV)	Drop height 1.22m.
Mechanical Shock (MIL-STD-810G, Method 516.7, Procedure I)	40g 11ms (Ground vehicle level) and 20g 11ms (Flight level) TPS shock pulse

How it works

The device is initiated with an integrated match, this is accessible beneath the cap. Device must be used with face mask and tubing which conforms with BS EN 13544 2:2002+A1:2009 Respiratory therapy equipment – Part 2: Tubing and connectors.

To initiate, open the lid and turn the dial clockwise 2-3 times. This will start the chemical reaction which will produce breathable oxygen. Once oxygen is flowing, close the lid and place face mask on patient.

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Specifications

Dimensions (mm)	284 (H) x 119 (D) x 118 (W)
Weight (kg)	2.3 kg
Oxygen generation (litres)	≥ 90
Minimum delivery duration (minutes)	15
Average flow rate (litres per minute)	≥ 6
Purity of oxygen (%)	≥ 96 %
Carbon monoxide (max average. ppm)	5 ppm
Carbon dioxide (max average. ppm)	300 ppm
Chlorine (max average. ppm)	0.2 ppm
Operating & storage temperature range	-13 to 40 °C
Outer temperature of unit (°C)	≤ 45°C
Starter mechanism	Integrated
Shelf Life (years)	3

Additional Information

Packaging, transportation & disposal

Oxygen generators are classified as hazardous UN 3356, class 5.1 oxidiser, packed to meet the standards of packing group II, and are packed in accordance with IATA regulations for airfreight (not passenger aircraft) or IMDG regulations for sea freight (special rules apply in the USA).

If possible, recycle to approved recycling company. If not (e.g., designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Refer to SDS for information on chemical composition.

Quality

Molecular Products Ltd.'s aim is to manufacture chemical products which satisfy completely the needs of our customers. All products are rigorously tested to ensure conformance to the specification. Our activities comply to the requirements of ISO 9001.