BMT

OZONE GENERATOR BMT 801BT

Small Laboratory Ozone Source Oxygen Fed, Passive Air Cooling High Concentration Bench Top Model



FEATURES

- Integrated Flow Meter & Throttle Valve
- Ozone generation from Oxygen
- Ozone production 0.35 g/h (at 100 g/Nm³)
- Highest O₃ concentration exceeding 200 g/Nm³
- · Power control via potentiometer and switch
- Control range 1:30
- · Life expectancy of many years
- Rugged aluminium enclosure

APPLICATIONS

Ozone generation in the laboratory

The OZONE GENERATOR BMT 801 BT (Bench Top) is a small air cooled ozone generator for laboratory applications.

The generator provides a flow meter and a throttle valve for immediate operation from an oxygen source. The electric power is set by a potentiometer.

Inlet fitting is for $3 \times 5 \text{ mm}$ (or $1/8" \times 3/16"$) PTFE tubing, outlet for $2.5 \times 4 \text{ mm}$, both accessible on the front panel.

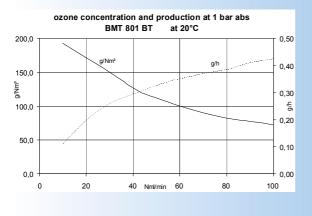
The operating pressure at the outlet must not exceed 1 bar gauge. Between 0.5 and 1.0 bar gauge (1.5 to 2.0 bar abs), 100 g/Nm³, the ozone production is 0.35 g/h or more. The maximally obtainable ozone concentration exceeds 200 g/Nm³.

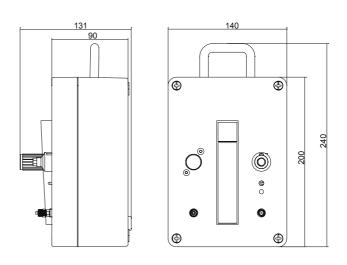
The ozone production decreases with increasing ambient air temperature by approx. 0.8% per degree centigrade.

SPECIFICATIONS

feed gas	oxygen
typical flow rate	10 to 100 ml/min
flow measurement	rotameter 0 to 100ml/min optional: 0 to 50ml/min
ozone production	> 0.35 g/h (at 100g/Nm³ / 20°C)
max. O ₃ concentration	> 200 g/Nm ³
adjustment range	3 to 100% ozone output at 0 to 100% potentiometer setting
feed gas pressure	max. 2.5 barg
ozone gas pressure at the outlet	max. 1 barg
cooling	passive, ambient air
ambient temperature	0 to +35°C (non-condensing)
amb. temperature effect	output decreasing by approx. 0.8% / K
materials in contact with ozone	AI_2O_3 ceramic and $35 \mu m$ anodised aluminium, SS, FEP
gas ports	oxygen inlet: for 3x5 mm FEP (or PTFE) ozone outlet: for 2.5x4 mm FEP (or PTFE)
power	24 VDC, 450 mA, comes with wall mount power supply for 100-240 VAC
dimensions (W x H x D)	140 x 240 x 131 mm
weight	approx. 2.4 kg

Typical Performance Curve:

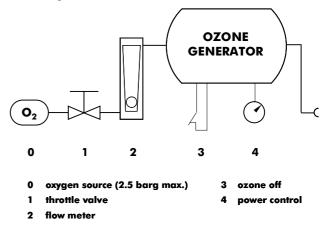




Dimensions of the generator are approx. $140 \times 240 \times 131$ mm. The weight is approx. 2.4 kg.

Input voltage is 24 VDC with a maximal power consumption of 11 W. A wall mount adapter for 100 - 240 VAC comes with the generator.

The following piping and instrumentation diagram illustrates the functioning of the ozone source:



A broad spectrum of ozone measurement products and field proven accessories is also available, e.g.:

- OZONE GENERATOR BMT 803N (8 g/h)
- OZONE ANALYZER BMT 964 for ozone measurement
- OZONE-IN-WATER SENSOR BMT 964 AQ
- OZONE MONITOR BMT 932 for TLV monitoring

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