

OREC™ Ozone / Dry Air Generator Type G10: Description



The OREC™ Type G10 *Ozonator* with integrated pressure swing adsorption (PSA) air dryer technology provides dependable ozone production for small applications (1 g/hr – 4 g/hr). The Type G10 combines a dual action ozone reactor cell with a high frequency variable controlled power supply.

A sturdy fiberglass reinforced, wall mountable enclosure, with easy-to-use front facing control panel, houses the versatile Type G10 Ozone / Dry Air Generator package.

Economical, durable, lightweight and compact, the Type G10 Ozone / Dry Air Generator is an exceptional value. Engineered to connect to a local compressed air source, the package includes a 5 micron filter / regulator with auto drain and coalescing filter.

The Type G10 Ozone/Dry Air Generator provides a source for ozone in situations and applications that were previously unrealistic due to cost, weight or size.

The ozonator reactor cell components are made from titanium and ceramic which are impervious to ozone, extending the life of the generator. These ozone generators are notably stable and the ozone gas is extremely pure since there is no deterioration of internal materials.

OREC™ Type G *Ozonators*: Technology

All OREC™ Type G *Ozonators* feature corona discharge ozone generators that produce comparatively high concentrations of ozone for the duration of a long, virtually service-free life.

The titanium-ceramic, *ultra-narrow-gap*, corona discharge reactor cell is energized by a solid state power supply, providing proportional control of ozone output. The *ultra-narrow-gap* corona discharge reactor cell equates to energy efficient and responsive ozone generation.

OREC™ has combined *ultra-narrow-gap* technology with engineered, high frequency, pulse modulated power supplies and instantaneous amplitude modulated variable control to maximize ozone output efficiency and provide precise ozone concentrations.



The *Ozonators* are constructed of ozone resistant components such as titanium electrodes, ceramic dielectrics, 316 stainless steel fittings, and Teflon® tubing to ensure reliability and maintenance-free performance. The *Ozonators* are air-cooled, employing large aluminum heat sinks and high volume fans for maximum heat transfer and optimal cooling, an important factor in improving ozone output.

Each OREC™ *Ozonator* is tested in a full range of operational conditions for ozone output and performance. OREC™ is unique, on a global basis, in having received *Direct Traceability* from the National Institute of Standards and Technology (NIST) and is ISO/IEC 17025 (A2LA) certified for ozone calibration!

OREC™ Ozone / Dry Air Generator Type G10: Features

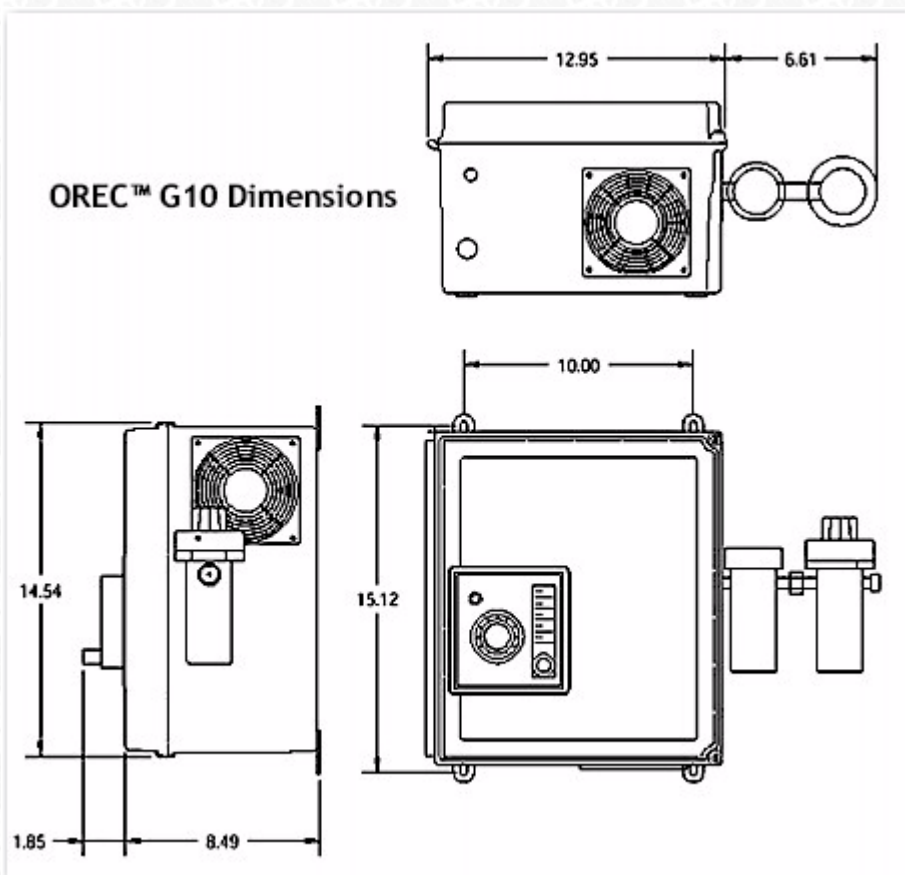
- Reinforced fiberglass enclosure;
- Stainless steel hardware;
- Integrated PSA air dryer technology;
- Air cooled ceramic and titanium dual action reactor cell;
- Over temperature safety switch;
- 5 micron filter / regulator with auto drain;
- Coalescing filter.

OREC™ Ozone / Dry Air Generator Type G10: Controls

- Variable output control: 0 – 100%;
- Inlet air pressure gauge: 0 – 100 PSI;
- Feed gas flow control: 0 – 30 SCFH;
- LED ozone indicator.



Ozone Production (10 SCFH):	1.10 g/hr – 3.70 g/hr
Ozone Production (20 SCFH):	2.67 g/hr – 4.50 g/hr
Ozone Production (30 SCFH):	4.36 g/hr – 4.90 g/hr
Compressed Air Requirement:	0.1 – 0.5 SCFM @ 80 – 125 PSI
Dry Air Output Dew Point:	– 100 F°
Maximum Reactor Pressure:	6 PSI
Feed Gas Flow Range:	0 – 30 SCFH
Variable Control:	0 – 100%
Power Consumption:	180 Watts
Air Cooling:	90 SCFM
Compressed Air Inlet Connector:	0.25 inch female pipe thread
Ozone Outlet Connector:	0.25 inch female pipe thread
Power Requirement:	115/230 VAC · 50/60 Hz · 1 Phase
Dimensions (H x W x D):	14.5 x 13 x 8.5 in. (368.3 x 330.2 x 215.9 mm)
Weight:	22 lbs. (10 kg)



NIST

National Institute of Standards & Technology

Direct (Primary) Traceability

[NIST Report 839.03-03-155](#)

[NIST Report 839.03-05-168](#)



American Association for Laboratory Accreditation

[Instrument Calibration Certificate 1424.01](#)

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