TOC GAS GENERATOR

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For Ultra-Dry, CO_2-Free Air to 1 lpm

Miniature TOC gas generator capable of delivering up to 1 lpm of dry, CO_2-free air at a purity of less than 1 ppm. Ideal for TOC analyzers, eliminating the hassle, safety risk and ongoing expense of high-pressure gas cylinders. Easy to install, fully automatic and no regular maintenance required. Compact and wall-mountable. Inlet hydrocarbon and coalescing filters, outlet filter-regulator, world-wide voltage support and bench-mount cabinet are standard.

PRODUCT FEATURES

- Produces ultra-dry, CO_2-free air to less than 1 ppm purity
- Eliminates the trouble, safety risk and ongoing cost of gas cylinders
- Flow capacity to 1 lpm at operating pressures from 75 to 125 PSIG
- Easy to install, fully automatic and no regular maintenance required
- Extremely compact, lightweight and wall-mountable
- Quiet, reliable operation and low power consumption
- Standard inlet coalescing and carbon filters for automatic removal of particulate, liquid moisture, oils and heavy hydrocarbons
- Standard outlet filter-regulator-gauge assembly for outlet pressure regulation
- Standard surge tank for stable outlet flow and pressure
- Manufactured in a Lean Manufacturing environment for world-class quality, on-time delivery and best-in-class value

TYPICAL APPLICATIONS

- Total Organic Carbon (TOC) analyzers (cumbustion type)
- Lasers
- CO_2 analyzer

PUREGAS

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TOC GAS GENERATOR - DESCRIPTION OF OPERATION

The TOC Gas Generator employs Pressure Swing Adsorption (PSA) technology to remove moisture and CO_2 from ordinary compressed air. The compressed air initially passes through an inlet coalescing filter, where solid contaminants, condensed moisture and oils are removed via an auto drain. The 4-way valve then directs the air into one of the two desiccant chambers, where the water vapor and CO_2 are removed. The dry, CO_2-free air leaving the desiccant chamber passes through the shuttle valve, through the outlet filter-regulator and then onto the TOC analyzer. A precision orifice in the outlet shuttle disk allows a portion of the purified air to be redirected back through the off-line tower, purging it of the accumulated moisture and CO_2. The purge air exits the unit through the 4-way valve and muffler. A solid state timer governs the process by controlling the 4-way valve.

SPECIFICATIONS

Outlet CO_2 Concentration	< 1 ppm
Outlet Dewpoint	-100°F
Max. Outlet Flow Rate[1]	1 lpm at 100 PSIG operating pressure
Operating Pressure	75 to 125 PSIG (maximum)
Max. Inlet Temperature	100°F
Dimensions	8.5"W x 12.5"H x 5"D
Shipping Weight	10 lbs.
Inlet / Outlet Connections	1/8" NPT
Power Options	100 - 240 VAC / 47 - 63 Hz / 1 phase
Inlet Filtration	Hydrocarbon filter w/ auto-pulse drain 0.01µm coalescing filter with auto-pulse drain
Outlet Filtration	5µm particulate filter-regulator assembly

1. Compressed air source should have a capacity of at least 10 lpm. Contact factory for maximum outlet flow rates for operating pressures less than 100 PSIG.

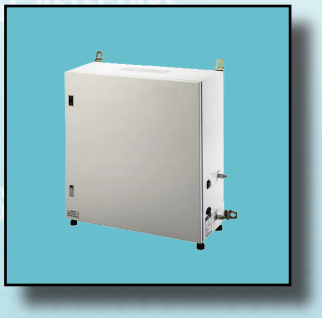
ORDERING INFORMATION

P011008F1 - TOC Gas Generator, 100 - 240 VAC
P011048F6 - 2-year Warranty Kit, TOC
P011048F27 - Annual Maintenance Kit, TOC

Don't have a compressed air source?

Ask us about our complete "plug and play" TOC+ gas generators, complete with oil-less compressor systems!

TOC+ Laboratory



TOC+ Process

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