

TOC Gas Generator



TEXOL
Products

Laboratory Gas Generators

TOC Gas Generator

The TOC Gas Generator delivers ultra-dry air with Total Organic Carbons (TOC) and CO₂ removed. This unit is ideal as a carrier gas generator for TOC analysers.

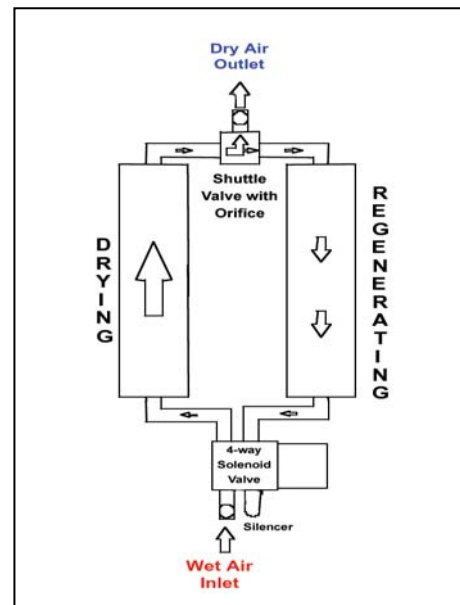


Overview

The TOC miniature gas generator with Total Organic Carbons (TOC) and Carbon Dioxide (CO₂) removed is essential for many industrial and laboratory applications, particularly TOC Analysers, and leads to improved process quality, reduced equipment downtime and lower operation costs. It removes the TOC, the CO₂ and the moisture content from compressed air streams. It is available as an integrated unit with filter regulators and buffer tank, or as an OEM module for integration into customer systems.

Process Description

The open solenoid valve directs the wet air into one of two desiccant chambers, where nearly all of the water vapour is removed. The ultra-dry air leaving the desiccant chamber passes through a valve to the process application. A precision orifice in the outlet valve allows a portion of the dry air to be re-directed back through the off-line desiccant chamber, purging it of the accumulated moisture. The purge air exits through the closed solenoid valve and silencer. A solid-state timer governs the process by controlling the solenoid valves precisely and allows for lower power consumption. The re-pressurising control module has a timed switchover between columns and allows a re-pressurising period prior to switching chambers. Re-pressurising helps minimise the outlet pressure variation and desiccant shock as the flow switches from one chamber to the other.



Features and Benefits

- CO₂ removal to less than 1 ppm
- Flow capacity of 3 l/min
- Operating pressures of 50 –125 psi
- Dry Air to –73°C (-100°F) ADP
- Extremely compact and lightweight
- Wall-mountable
- Low power requirement
- Easy Installation
- Fully Automatic

Typical Applications

- Carrier Gas Supply for TOC Analysers

Technical Specifications

Model	TOC
Dewpoint (°C / °F PDP)	-73 / -100
Input Pressure (psi / bar)	50-100 / 3.45-6.89
Max Outlet Flow (l/min)	3
Dimensions (without enclosure)	
Depth (cm / ins)	10.2 / 4
Height (cm / ins)	24.1 / 9.5
Width (cm / ins)	11.4 / 4.5
Weight (kg / lbs)	2.3 / 5
Dimensions (with enclosure)	
Depth (cm / ins)	15.0 / 5.9
Height (cm / ins)	40.0 / 15.7
Width (cm / ins)	30.0 / 11.8
Weight (kg / lbs)	8 / 17.6
Air Requirement (l/min)	10
Connection Ports	1/8" BSP

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