

# TOC



## Up to 9 l/min dry, CO<sub>2</sub>-Free air supply

The TOC Gas Generator from In House Gas, delivers ultra-dry air with Total Organic Carbons (TOC) and CO<sub>2</sub> removed to below 1ppm, for use as a carrier gas.

Ultra-dry air with Total Organic Carbons (TOC) and Carbon Dioxide (CO<sub>2</sub>) removed is essential for many industrial and laboratory applications, in particular TOC Analysers, and leads to improved process quality, reduced equipment downtime and lower operation costs.

### Features & Benefits:

- \* Reduces CO<sub>2</sub> & TOC to <1ppm
- \* Reduces water vapour to <1ppm
- \* Compact and lightweight
- \* Continuous self-regeneration
- \* 3 Stage Filtration as standard
- \* Two year Warranty

### Applications:

- TOC Analysers
- FTIR Spectrometers
- Laboratory Analysers
- Continuous Emissions Monitors
- Gas Chromatographs

### System Specifications:

Input Pressures	70 psig	100 psig	120 psig
Flow	3.3L/min	7.7L/min	9.1L/min
Purity	<1ppm CO <sub>2</sub>		
Dewpoint	-70° C (-100° F)		
Prefilter	5 micron		
Colonising Filter	0.01 micron		
Final Filter Regulator	0.5 micron		
Dimensions (cm)	123 x 234 x 342		
Power Requirements	220V/50Hz		



The TOC-Extra model is also available. This Package includes an oil-free air compressor with the TOC unit mounted inside the cabinet. Please contact **In House Gas** for further details.

We reserve the right to change and modify any product specifications or design. Error and omissions accepted

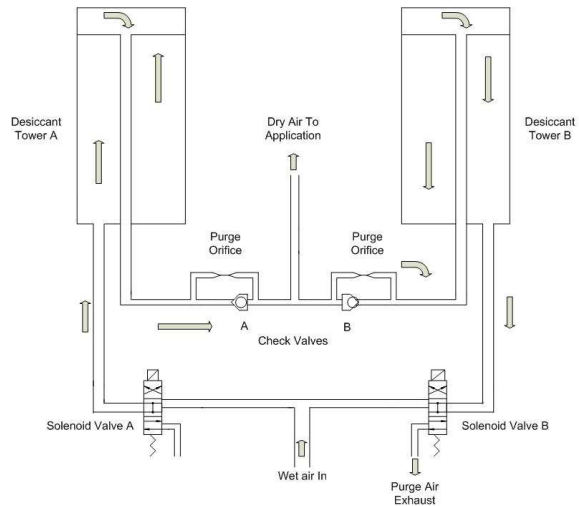
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# The Process



The TOC Miniature Gas Generator employs Pressure Swing Adsorption (PSA) technology to remove water vapour, TOCs and CO<sub>2</sub> from ordinary compressed air. The open solenoid valve directs the wet TOC and CO<sub>2</sub> -laden air into one of the desiccant chambers, where water vapour, TOCs and CO<sub>2</sub> are removed. The clean and dry air leaving the desiccant chambers passes through a valve to the application. A precision orifice in the outlet valve allows a portion of the cleaned dry air to be re-directed back through the off-line desiccant chamber, purging it of the accumulated moisture, TOCs and CO<sub>2</sub>.



## FAQ's

### How much do they cost?

Generator costs vary. We work with you to properly size the system to meet your requirements. Once this is done, we can make a formal price quote. We include a two year warranty and no-quibble guarantee with all our TOC generators

Please tell us more about your application needs.

### Do you have any references?

Yes. We would be delighted to offer a number of references.

### Do you rent or lease your systems?

Yes, please contact us for details.

### What are the Maintenance Costs?

Filter cartridges need to be replaced based on a maintenance schedule. The maintenance is a simple procedure which can be carried out on the field. But for extra peace of mind we do offer Spares Kits that obtain all standard parts

Please Contact us for more Details.

### Can I change the flow of the system?

NO!! This will make your warranty void. Do not change flow without calling In House Gas.

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