


TOC Gas Generators

for Total Organic Carbon Analysers

Distributed by:

 **Carl Stuart Limited**
ADVANCED APPLIED TECHNOLOGIES
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TOC carrier gas on Demand, up to 1,250 ml/min

The Parker Balston TOC (Total Organic Carbon) gas generators are a complete system with carefully matched components engineered for easy installation, operation and long term reliability.

They are designed to transform standard compressed air into safe supply of hydrocarbon free (<0.05ppm), dry (-73°C), CO₂ free (<1ppm) carrier gas. The TOC gas generators are an ideal alternative as a carrier / combustion gas to nitrogen, oxygen and air cylinders. Payback periods are typically less than one year.



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Product Features:

- Produces a continuous supply of gas for TOC's
- Designed to run continuously 24 hours/day
- Purity meets or exceeds all TOC manufacturer's gas purity requirements
- Compact design and minimal maintenance
- Ensures consistent, reliable TOC analysis
- Eliminate dangerous high pressure oxygen and nitrogen gas cylinders from the laboratory

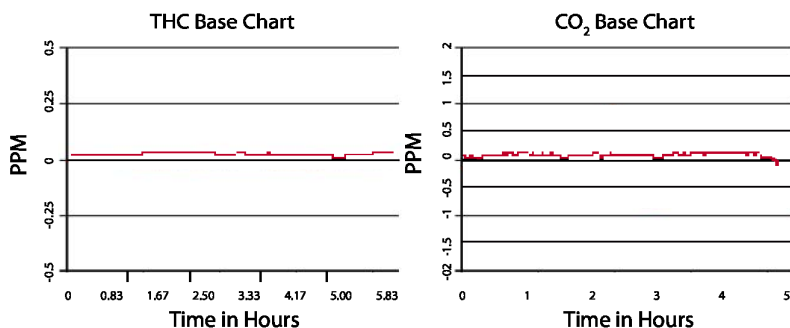

Analytical Gas Systems

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TOC carrier gas is produced by utilising a combination of filtration, heated catalyst and pressure swing adsorption (PSA) technologies. Standard compressed air is filtered by high efficiency coalescing filters to remove all contaminants down to 0.01 micron.

The air is then purified using a state-of-art combined heated catalyst module to remove hydrocarbons. Finally the air then passes through two columns filled with molecular sieve which adsorb CO₂ and moisture.

These are desorbed to atmosphere during the pressure swing cycle leaving a supply of ultra pure TOC grade air. Simply connect to the TOC instrument for consistent reliable analysis.



Principal Specification

Model	TOC-625	TOC-1250
Hydrocarbon Concentration	< 0.05 ppm	< 0.05 ppm
Carbon Dioxide Concentration	<1.0 ppm	< 1.0 ppm
Dew Point	-73°C	-73°C
Flow Rates	625 ml/min	1250 ml/min
Inlet Pressure	4.5 bar to 8.6 bar	4.5 bar to 8.6 bar
Ambient Temperature	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	80 Watts	170 Watts
Dimensions (H x W x D)	318 x 229 x 406 mm	430 x 280 x 430 mm
Weight (Shipping)	13 Kg (15)	20 Kg (22)

Ordering Information

Description	Model Number
625 ml/min TOC Gas Generator	TOC-625
1,250 ml/min TOC Gas Generator	TOC-1250
Receiver Tank - 3 litres at atmospheric pressure	72-007 (required to prevent pressure fluctuations)
Installation Kit	IK76803

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for TOC-1250	MK7840	12 Months
Maintenance Kit for TOC-625	MKTOC625-12	12 Months
Maintenance Kit for TOC-625	MKTOC625-36	36 Months

