

# TG Series: iTOC Gas Generators

## Superior performance, long life



#### **Features:**

- THC < 0.05 ppm (as methane),  $CO_2 < 1$ ppm,  $H_2O < 1$  ppm
- Flat baselines, high performance
- Safer and less expensive than cylinders
- Low cost of ownership
- Virtually maintenance free

### Applications

- TOC Analysers, burn and carrier gas
- **GC-FID**
- **UHP** air requirements

тос gas generators from Instruments are designed for a stress maintenance. This guarantees reliable, capacities from 600 to 20,000ml/min. free life. The TG series are quiet, easy to install and delivered as complete units. Constant, high purity, gas for TOC analysis you can rely on.

For GC-FID applications requiring low H<sub>2</sub>O the TG series can be configured to provide this specification with steady flow.

Catalytic oxidation and PSA (Pressure Swing Adsorption) technology are used to remove hydrocarbons and CO<sub>2</sub>/H<sub>2</sub>O respectively. The compressed air has first been filtered to remove any water, oil, dust and aerosol. The outlet filter ensures no particles produced or introduced in the generator are transported to the analyser. The clear

ultra pure purge gas production.

The molecular sieve regenerates Customise automatically on a continuous basis. So the system is designed for 24/7 running.

If a compressor is integral to the generator then there is risk of heat and/ vibration and/or condensation or affecting both the quality of the gas and the lifetime of the system. cmc Instruments recommend a separate compressor or in-house compressed air supply.

Low cost of ownership and minimal maintenance is the result. To protect the system from oil, water or dust it is recommended to change the filter annually.

cmc bowl filters allow easy inspection and The TG series is available in 6 standard Other capacities available on request.

> your cmc Instruments generator with the features you want. TG Smart options include flowmeter, pressure gauges, failure indications and alarms from gas, water and power together automatic supply with switchover to cylinders in case of system failure.

> Designed and manufactured in Germany these products represent quality at an affordable price. Perhaps more importantly, excellent the reliability and almost zero downtime that can be expected over many years brings with it peace of mind.



**cmc Instruments GmbH** Rudolf Diesel Strasse 12 A D - 65760 Eschborn



#### **Specification**

Electrical requirements: 230V, 50HzPaWarm up time: <10 min</td>TGOutlet hydrocarbon: <0.05 ppm</td>TG(measured as methane)TGOutlet CO2: <1 ppm</td>TGOutlet H2O: < 1 ppm</td>TGInlet pressure: 6.5-10 barOpConnections: 6mm (others on request)Max power inputTG 600, 2000, 4000, 8000: 420WTG 15 K, 20 K: 1600W

#### Power demand (W)

TG 600: < 30 TG 2000: < 40 TG 4000: < 60 TG 8000: < 90 TG 15 K: < 120 TG 20 K: < 150

#### Weights and Dimensions

Dimensions	(w	х	h	Х	d)	mm	

TG 600, 2000, 4000, 8000:

310 x 540 x 460

TG 15 K, 20 K:

470 x 540 x 460

Weights net:

TG 600: 10 kg TG 2000: 12 kg TG 4000: 15 kg TG 8000: 20 kg TG 15 K: 24 kg TG 20 K: 30 kg



#### **Ordering Information**

Part no.	Description					
TG 600		Max gas flow, 600ml/min				
TG 2000	TOC gas generator, < 0.05 ppm	Max gas flow, 2000ml/min				
TG 4000	hydrocarbon (measured as methane),	Max gas flow, 4000ml/min				
TG 8000	<1 ppm CO <sub>2</sub> , <1 ppm H <sub>2</sub> O, 230V (110V	Max gas flow, 8000ml/min				
TG 15 K	option available)	Max gas flow, 15,000ml/min				
TG 20 K		Max gas flow, 20,000ml/min				
Options						
	Flow control and flow meter					
	Pressure gauge					
	Temperature control OK/standby					
	Isolated alarm contacts (power, gas, temperature) without log function Isolated alarm contacts (power, gas, temperature) with log function					
	Consequence of stoppage - close/switchover to bottle					
Spares						
	Replacement pre-filter and outlet filter (set)					