

PG series: Purge Gas Generator

Superior performance, long life



Features:

- $\text{CO}_2 < 1 \text{ ppm}$, $\text{H}_2\text{O} < 1 \text{ ppm}$
- Clearer background, quicker time
- Safer and less expensive than cylinders
- Low cost of ownership
- Virtually maintenance free

Applications

- FT-IR spectroscopy
- Plant growth studies

Purge gas generators from cmc Instruments are designed for a stress free life. The PG series are quiet, easy to install and delivered as complete units. Constant, high purity, purge gas for analysis you can rely on.

PSA (Pressure Swing Adsorption) technology is used to remove CO_2 and H_2O vapour after the 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 bowl filters allow easy inspection and maintenance. This guarantees reliable, ultra pure purge gas production.

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

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. Extra coalescing filters can be added in case of dirty compressed air.

The PG series is available in 3 standard capacities from 14 to 85l/min. Other capacities available on request.

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

Specification

Electrical requirements:

230V, 50Hz

Outlet CO₂: <1 ppm

Outlet H₂O: < 1 ppm

Inlet pressure: 6.5-10 bar

Connections: 6mm

(others on request)

Air inlet temperature: max 30°C

Oil content: < 0.01 mg/m³

Dewpoint inlet: +5°C or better

Dewpoint outlet: -70°C

Particles: < 0.1 µm

Energy consumption (Wh)

PG 14 L : <10

PG 28 L : <20

PG 85 L : <30

Performance (max)

PG 14 L : 25W

PG 28 L : 30W

PG 85 L : 50W

Weights and Dimensions

Dimensions (w x h x d) mm:

PG 14 L : 310 x 440 x 340

PG 28 L : 330 x 450 x 560

PG 85 L : 400 x 400 x 900

Weights net:

PG 14 L : 18 kg

PG 28 L : 30 kg

PG 85 L : 60 kg

Ordering Information

Part no.	Description	
PG 14 L	Purge gas generator, desktop version display, 230V (110V option available)	Max flow, 14 NI/min
PG 28 L		Max flow, 28 NI/min
PG 85 L		Max flow, 85 NI/min
Options		
	Heavy duty coalescing filter for dirty compressed air	
Spares		
	Replacement pre-filter and outlet filter (set)	