

PURGE-GAS GENERATOR for FT-IR-Spectroscopy

- eliminates dangerous and expensive gas cylinders!
- the beam splitter will be protected from corrosion by moisture
- no "channeling"
- safe and economic work with low pressure
- no delay in operation while the instrument is being purged

Generating purge gas out of compressed air

The new Purge-Gas Generators of the PG series are produced specially for the use with FT-IR Spectrometers to provide a purified purge gas and air bearing gas from compressed air. The generator is delivered ready to use with coalescing prefilters and automatic drains. First oil-, water- and dust particles are removed from compressed air. CO₂ removal is achieved by pressure swing adsorption (PSA) technology to reduce the concentration of these compounds to **CO₂ < 1 ppm, H₂O < 1 ppm**. The molecular sieve is regenerated automatically by removing CO₂ and H₂O. The process is being repeated continuously in time and nearly maintenance-free. To protect the whole system it is recommended to change once per year the prefilter. All systems are designed to operate continuously 24 hours/day, 7 days/week.

Benefits:

Using a Purge-Gas Generator of the PG series the FT-IR chamber will be removed much quicker from CO₂ and water than using nitrogen. The user gets clearer backgrounds in a shorter period of time. The small and space saving systems use your in house compressed air supply. Therefore dangerous and expensive gas cylinders are eliminated from the laboratory.

Compressed air supply:

All Purge-Gas Generators are available with a external low noise and oil-less compressor for permanent use (<55 dba).



Max. air inlet temperature + 30 °C. Air should be prefiltered and oil free. To guarantee a longlasting maintenance-free use please use air with the following standards: ISO 8573.1, class 1.2.1. Oilcontent < 0,01 mg/m³, water content < - 40 °C dew point, particles < 0,1 µm. In case of dirty compressed air with maybe high rate of oil and water special coalscing-filters can be delivered.

Technical data

Typ	PG 14 L	PG 28 L	PG 85 L
Max. dry air flowrate for specified dew point [NI/min]	14	28	85
	Max. flowrates higher than 85 NI/min. are also available..		
Max. CO₂- and H₂O- content at the outlet [ppm]		<1 ppm	
Connections (Swagelok®) [mm]		< 0,1 ppm	
Recommended inletpressure [bar]		6	
Electrical requirement		5-10	
Power consumption [Wh]		230 V / 50 Hz	
Performance max. [W]	<10	<20	<30
Dimensions (W x H x D) [mm]	25	30	50
Weight [kg]	180 x 370 x 300	180 x 370 x 300	400 x 600 x 400
	8,0	12,5	28,0



KS SunRay
Instruments

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