Chrysalis® II FT-IR Purge Gas Generator

Provides CO_2 FREE Air for Analytical Instruments and Monitors

Operating and Physical Specifications

Flow Rate:	
Model FTIR-PG19	4 Lpm (60 psig air inlet pressure) 19 Lpm (120 psig air inlet pressure)
Model FTIR-PG28	7 Lpm (60 psig air inlet pressure) 28 Lpm (125 psig air inlet pressure)
Model FTIR-PG80	4 Lpm (60 psig air inlet pressure) 80 Lpm (125 psig air inlet pressure)
Min/Max Inlet Air Pressure:	60 psig/125 psig
Compressed Air Quality:	Instrument; Oil-less
CO_2 Concentration:	< 1 ppm
Dew Point:	-100 ˚F
Max Inlet Air Temperature:	77 ˚F
Inlet/Outlet Port Size:	
Model FTIR-PG19	1/4" NPT
Model FTIR-PG28	1/4" NPT
Model FTIR-PG80	1/4" NPT
Power Source:	Model FTIR-PG19 115 VAC/60 Hz; 9 watts Model FTIR-PG28 & PG80 115 VAC/60 Hz; 20 watts
Dimensions:	
Model FTIR-PG19	12"H x 14"W x 5"D
Model FTIR-PG28	20"H x 17"W x 7"D
Model FTIR-PG80	28"H x 17"W x 7"D
Weight:	
Model FTIR-PG19	6 lbs.
Model FTIR-PG28	19 lbs.
Model FTIR-PG80	25 lbs.
Warranty:	1 year

Description

The Chrysalis® II FT-IR Purge Gas Generator is designed to provide a continuous stream of CO_2 free air from compressed air sources for use with FT-IR Spectrometers to provide purified purge and air bearing gas. The FT-IR Purge Gas Generator utilizes the Pressure Swing Adsorption (PSA) process to reduce CO_2 levels to below 1 ppm and water vapor content to less than -100 ˚F dew point. The Chrysalis® II FT-IR Purge Gas Generator is ideal for optimizing spectral analysis by providing clearer background spectra in a shorter evaluation time, while improving signal to noise ratio. The FT-IR Purge Gas Generators are designed to operate 24-hours/day, 7-days/week. The integral dual tower design provides continuous uninterrupted operation without having to change media. The Generator requires a compressed air source for operation and the air should be compatible with instrument quality air. The inconvenience and high costs associated with using nitrogen cylinders and dewars can be eliminated with the Chrysalis® II FT-IR Purge Gas Generator.

Flow Capacity Chart (flow rates in Lpm for each model)

Air Inlet Pressure (psig)	FTIR-PG19	FTIR-PG28	FTIR-PG80
125	--	28	80
120	19	27	73
110	18	25	60
100	14	23	49
90	12	20	39
80	10	17	34
70	6	10	21
60	4	7	14

Applications

- Purge Gas for Sample Chambers, Optics and Air Bearing Components for FT-IR Spectrometers
- Continuous Emissions Monitors
- TOC Analyzers
- Calibration Air for CO_2 Analyzers
- Matrix GC's

Product Features

- Flow rate up to 80 Lpm
- Reduces CO_2 levels to less than 1 ppm
- Reduces water vapor to less than 1 ppm
- Compact size conserves space
- Continuous self-regenerative operation
- Operating pressure 60 to 125 psig
- Regulator/filter with gauge installed on outlet
- Sound insulated enclosure
- No moving parts requiring maintenance
- Wall mountable design
- Power cord with plug included

Ordering Information

Model Number	Description	Capacity
FTIR-PG19	FT-IR Purge Gas Generator	19 Lpm
FTIR-PG28	FT-IR Purge Gas Generator	28 Lpm
FTIR-PG80	FT-IR Purge Gas Generator	80 Lpm
CO2-IN-FILT1	Replacement Inlet Air/Coalescing Filter Cartridge (28 & 80 Lpm models)	
CO2-IN-FILT2	Replacement Inlet Air/Coalescing Filter Cartridge (19 Lpm model)	
CO2-IN-HSG1	Replacement Inlet Air/Coalescing Filter Housing with Filter (28 & 80 Lpm models)	
CO2-IN- HSG2	Replacement Inlet Air/Coalescing Filter Housing with Filter (19 Lpm model)	
CO2-OUT-FILT	Replacement Outlet Air Filter Cartridge (all models)	
CO2-OUT-REG	Replacement Outlet Regulator/Filter Assembly with Filter (all models)	
CO2-MUFF	Replacement Muffler (all models)	

NOTE: Flow rates for each model vary based upon the air pressure supplied to the inlet of the Generator. Please refer to the Flow Capacity Chart for additional flow information.

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