FT-IR Purge Gas Generators

Flow Capacities to 102 lpm

Analytical Gas Systems

Features

Eliminate the need for costly, inconvenient nitrogen cylinders in the laboratory

Compact design frees up valuable laboratory floor space

Improve signal-to-noise ratio even on non-purge systems

Recommended and used by all leading FT-IR manufacturers

The Parker Balston Type 75-52 FT-IR Purge Gas Generator

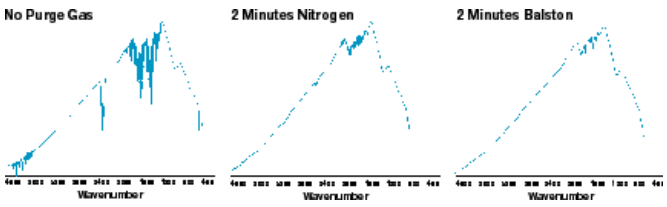
FT-IR Purge Gas Generators

The Parker Balston 75-45, 75-52 and 75-62 FT-IR Purge Gas Generators are specifically designed for use with FT-IR Spectrometers to provide a purified purge gas and air bearing gas from compressed air. The generators supply carbon dioxide-free air at less than -73°C dew point with no suspended impurities larger than 0.1µm.

The units are designed to operate continuously 24 hours/day, 7 days/week. The Parker Balston Purge Gas Generators completely eliminate the inconvenience and high costs of nitrogen cylinders and dewars and significantly reduce the costs of operating FT-IR instrumentation.

The Parker Balston units offer cleaner backgrounds in a shorter period of time and more accurate analysis by improving the signal-to-noise ratio. The typical payback period is less than one year. The generators are also ideally suited for use with CO_2 Analysers and Matrix GCs in addition to supplying other laboratory instruments.

The generators are quiet, reliable and easy to install; simply attach the inlet and outlet air lines, plug the power cord into a wall outlet and enjoy trouble-free operation.



This spectra comparison illustrates that a Balston FT-IR Purge Gas Generator allows an FT-IR to be purged at a much higher flow rate than is practical with nitrogen. The sample chamber purged by the Balston unit if free of CO_2 and water faster than the sample chamber purged by nitrogen.

Here's what your colleagues say:

"A Balston FT-IR Purge Gas Generator and Self Contained Lab Gas Generator were used in conjunction with the Society for Applied Spectroscopy Fourier Transform Infrared Spectrometry Workshop at the University of Georgia, which was organised by Dr. Peter R. Griffiths. The Self Contained Lab Gas Generator provided excellent purge for six spectrometers. The organisers were so pleased with the performance of the Balston Systems they have requested that Parker Balston participate in future workshops."

- Dr. James A. de Haseth and Dr. Peter R. Griffiths

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Principal Specifications

Flow Rate for Specified Dew Point		
Inlet Pressure 6.9 barg	75-45	17 lpm
Inlet Pressure 4.1 barg		9 lpm
Inlet Pressure 6.9 barg	75-52	34 lpm
Inlet Pressure 4.1 barg		17 lpm
Inlet Pressure 6.9 barg	75-62	102 lpm
Inlet Pressure 4.1 barg		57 lpm
CO_2 Concentration		< 1 ppm
Dew Point		-73°C
Min/Max Inlet Air Pressure		4.1 barg/8.6 barg
Max Inlet Air Temperature (1)		25°C
Air Consumption for regeneration		
@ 6.9 barg	75-45	14 lpm
	75-52	28 lpm
	75-62	57 lpm
Inlet/Outlet Port Size		1/4" NPT (female)
Electrical Requirements		220 VAC/50 Hz
Dimensions	75-45	180 x 330 x 150mm
	75-52	320 x 710 x 230mm
	75-62	330 x 1020 x 230mm
Shipping Weight	75-45	11 kg
	75-52	18 kg
	75-62	36 kg

Note:
(1) Outlet dew point will increase at higher inlet compressed air temperatures

Ordering Information

Description	Model Number	
FT-IR Purge Gas Generator	75-45-12-VDC, 75-52-12-VDC, 75-62UK	
Annual Maintenance Kit	75-45-12-VDC	MK7505
	75-52-12-VDC	MK7552
	75-62UK	MK7520
Installation Kit for all models		IK7572

Optional Accessories

Auxiliary Coalescing Prefilter	2002N-1B1-DX
Pressure Regulator	W-405-4032-000
Flow controllers (request AGS supplied catalogue)	W-FM Series, 72-400

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