

FT-IR Purge Gas Generators

for Fourier Transform-Infrared



FT-IR Purge Gas on Demand, up to 85 lpm

The Parker Balston FT-IR purge gas generator is engineered to transform standard compressed air into a clean supply of dry (-73°C), CO₂ free (<1 ppm) purge gas. The FT-IR gas generators are an ideal alternative to nitrogen, producing cleaner background spectra in a shorter time.

Payback periods are typically less than one year. By removing CO₂ and water vapour the signal to noise ratio allows more accurate analysis, particularly from 1,200-2,000, 2,400 and 3,600-4,000 wave numbers.



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Product Features:

- Produces a continuous supply of purge gas for FT-IR's at a fraction of the cost of nitrogen
- Can supply FTIR with microscopes and other accessories
- Eliminate costly nitrogen cylinders in the laboratory
- Recommended and used by all leading FT-IR manufacturers
- Improve signal-to-noise ratio even on non-purge systems - cleaner spectra in a shorter time
- Simple, low cost annual maintenance

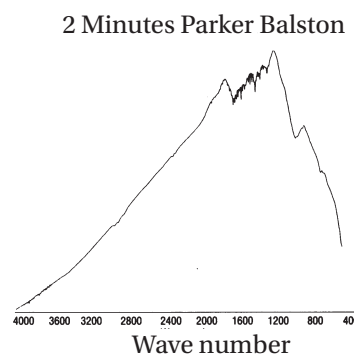
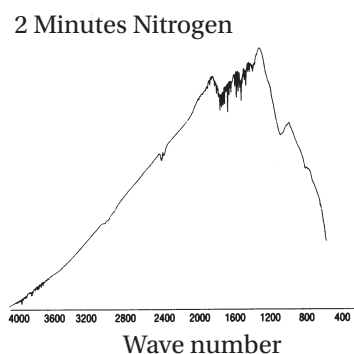
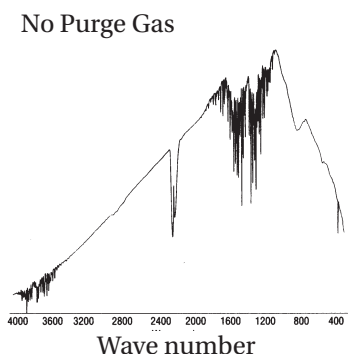
 
Analytical Gas Systems

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FT- IR purge gas is produced by utilising a combination of filtration and pressure swing adsorption (PSA) technology. An external supply of compressed air is filtered by high efficiency coalescing filters to

remove all contaminants down to 0.01 micron. The air then passes through two columns filled with molecular sieve which adsorb moisture and CO₂

These are desorbed to atmosphere during the pressure swing cycle leaving a supply of ultra pure dry air.



Principal Specification

Model	75-45	75-52	75-62
Dew Point	-73°C	-73°C	-73°C
Carbon Dioxide Concentration	< 1.0 ppm	< 1.0 ppm	< 1.0 ppm
Flow Rates (at 6.9 bar)	14 lpm	28 lpm	85 lpm
Inlet/Outlet Pressure	4.1 to 8.6 bar	4.1 to 8.6 bar	4.1 to 8.6 bar
Inlet Connection	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)
Outlet Connection	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)
Ambient Temperature	10 to 35°C	10 to 35°C	10 to 35°C
Electrical Requirements	230 VAC - 50Hz - 12VDC	230 VAC - 50Hz - 12VDC	230 VAC - 50Hz - 12VDC
Power Consumption	100 Watts	100 Watts	100 Watts
Dimensions (H x W x D)	330 x 320 x 180 mm	710 x 320 x 220 mm	1120 x 320 x 220 mm
Weight (Shipping)	10 Kg (12)	24 Kg (27)	36 Kg (40)

Ordering Information

Description	Model Number
14 lpm FT-IR Purge Gas Generator	75-45
28 lpm FT-IR Purge Gas Generator	75-52
85 lpm FT-IR Purge Gas Generator	75-62
Installation Kit	IK7572

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for 75-45	MK7505	12 Months
Maintenance Kit for 75-52	MK7552	12 Months
Maintenance Kit for 75-62	MK7520	12 Months