

FT-IR Purge Gas Generators

for Fourier Transform-Infrared

Distributed by:



Carl Stuart Limited

ADVANCED APPLIED TECHNOLOGIES

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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

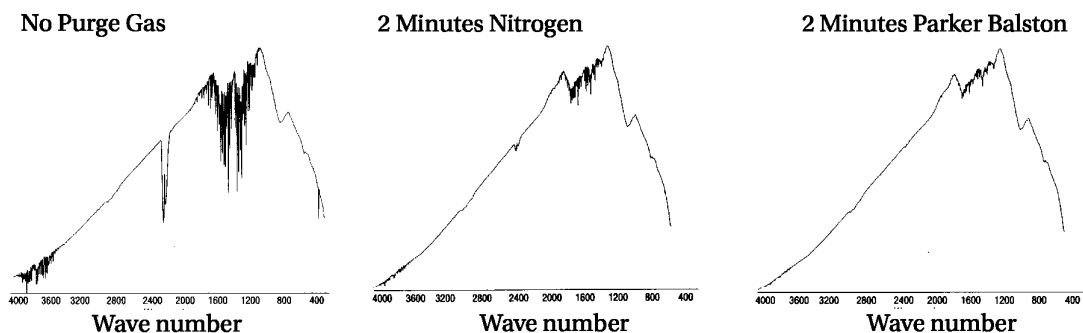


ENGINEERING YOUR SUCCESS.

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 |