

# FT-IR Purge Gas Generators

for Fourier Transform-Infrared

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ADVANCED APPLIED TECHNOLOGIES

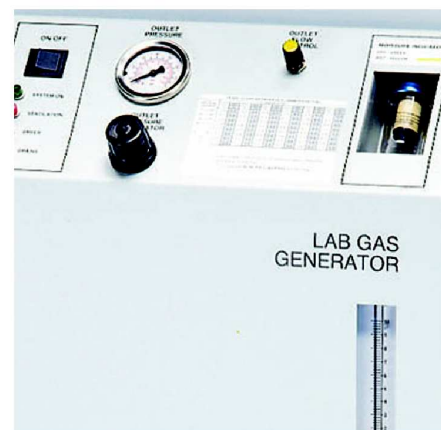
Contact Us:

Irl Ph: 01 4523432

UK Ph: 08452 30 40 30

Web: [www.carlstuart.com](http://www.carlstuart.com)

Email: [info@carlstuart.com](mailto:info@carlstuart.com)



## FT-IR Purge Gas on Demand, up to 28 lpm

The Parker Balston 'plug and play' FT-IR purge gas generator is engineered to transform standard compressed air from an integral state of the art oil-free compressor, into a safe regulated supply of dry (-73°C), CO<sub>2</sub> 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 CO<sub>2</sub> 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.



## Contact Information:

Parker Hannifin (UK) Limited  
**Process Air and Gas Business Unit**  
Hermitage Court, Hermitage Lane  
Maidstone, Kent ME16 9NT

phone +44 (0)1622 723300  
fax +44 (0)1622 728703  
[balstonukinfo@parker.com](mailto:balstonukinfo@parker.com)

[www.parker.com/pag](http://www.parker.com/pag)

## Product Features:

- Produces a continuous supply of purge gas for FT-IR's at a fraction of the cost of nitrogen
- Complete 'Plug and Play' generator
- Improve signal-to-noise ratio even on non-purge systems - cleaner spectra in a shorter time
- Recommended and used by all leading FT-IR manufacturers
- Eliminate costly nitrogen cylinders from the laboratory
- Internal acoustic dampening ensures quiet operation

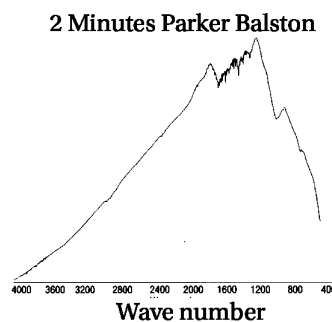
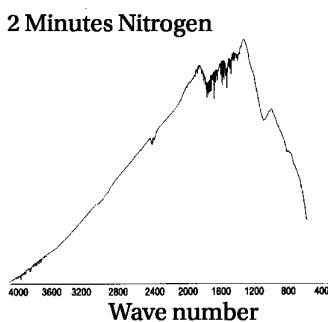
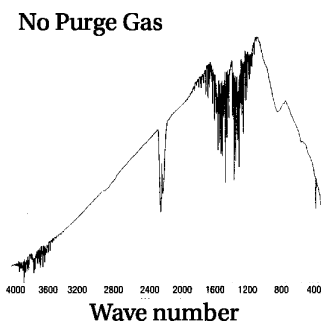
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Analytical Gas Systems

**ENGINEERING YOUR SUCCESS.**

FT- IR purge gas is produced by utilising a combination of compressor, filtration and pressure swing adsorption (PSA) technology. Compressed air is produced from an oil free compressor and then 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 CO<sub>2</sub>, moisture and hydrocarbons.

These are desorbed to atmosphere during the pressure swing cycle leaving a supply of ultra pure air. Simply connect to the instrument for a continuous supply of FT-IR purge gas.



### Principal Specification

<b>Model</b>	<b>74-5041</b>
<b>Dew Point</b>	<b>-73°C</b>
<b>Carbon Dioxide Concentration</b>	<b>&lt; 1.0 ppm</b>
<b>Delivery Pressure</b>	<b>5.5 bar</b>
<b>Ambient Temperature</b>	<b>10 to 35°C</b>
<b>Electrical Requirements</b>	<b>230VAC- 50Hz</b>
<b>Power Consumption</b>	<b>1.8 Kw</b>
<b>Dimensions (H x W x D)</b>	<b>700 x 310 x 900 mm</b>
<b>Weight (Shipping)</b>	<b>93 Kg (98)</b>

### Ordering Information

<b>Description</b>	<b>Model Number</b>
28 lpm FT-IR Purge Gas Generator	74-5041
Installation Kit	IK7572

<b>Maintenance Items</b>	<b>Model Number</b>	<b>Change Frequency</b>
Maintenance Kit	74065	12 Months
Replacement Compressor	74155	18 Months