Self-Contained FT-IR Purge Gas Generator

- ▲ **Less expensive and more convenient than nitrogen cylinders and dewars**
- ▲ **Includes state-of-the-art, oil-less compressor**
- ▲ **Compact, portable design is ideal for mobile labs**
- ▲ **Improves signal-to-noise ratio even on non-purge systems**
- ▲ **Increases FT-IR sample thru-put and maximizes up-time**
- ▲ **Special sound insulation design ensures quiet operation**

Model 74-5041NA

The Parker Balston® Model 74-5041NA FT-IR Purge Gas Generator is specifically designed for use with FT-IR spectrometers to provide a purified purge and air bearing gas supply from compressed air. The Parker Balston model 74-5041NA provides instruments with CO_2-free compressed air at less than -100°F (-73°C) dew point with no suspended impurities larger than 0.01 micron 24 hours/day, 7 days/week. The Parker Balston Self-Contained FT-IR Purge Gas Generator completely eliminates the inconvenience and the high costs of nitrogen cylinders and Dewars, and significantly reduces the costs of operating FT-IR instruments.

The Parker Balston unit generates cleaner background spectra 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 generator is quiet, very reliable, and easy to install - simply attach the outlet air line, plug the electrical cord into a wall outlet, and the unit is ready for trouble-free operation.

Here's what your colleagues say:

"A Parker 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, June 2000 (organized by Dr. James A de Haseth and Dr. Peter R. Griffiths). The Self-Contained Lab Gas Generator provided excellent purge for six spectrometers. The organizers were so pleased with the performance of the Parker Balston® systems, they have requested that Parker Hannifin Corporation, Inc. participate in future workshops."

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

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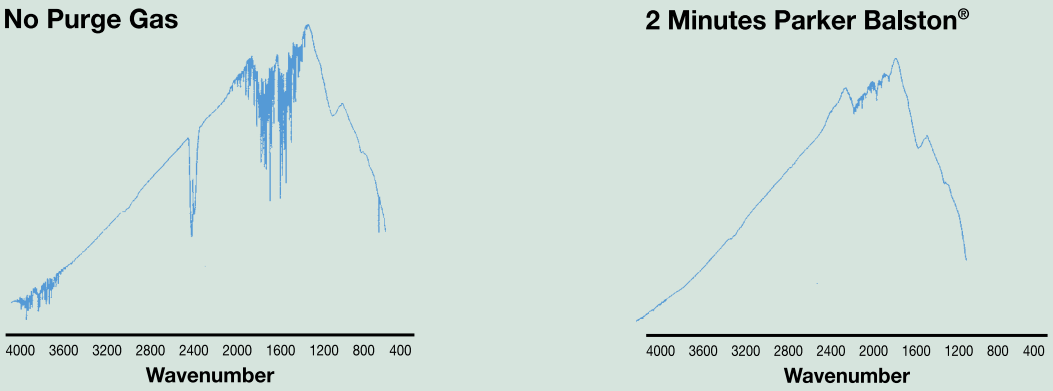
Self-Contained FT-IR Purge Gas Generator

Comparative Spectral Analysis in Purging an FT-IR Sample Chamber



This spectra comparison illustrates that a Parker 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 Parker Balston unit if free of CO_2 and water faster than the sample chamber purged by nitrogen.

Principal Specifications

Self-Contained FT-IR Purge Gas Generator	**74-5041NA**
Maximum Flow Rate (at 80 psig)	60 SCFH (28 lpm)
Maximum Output Pressure	80 psig
CO_2 Concentration	< 1 ppm
Dew Point	-100°F (-73°C)
Outlet Port Size	1/4" NPT (female)
Min/Max Ambient Temperature	30°F/90°F (-1°C/32°C)
Electrical Requirements (single phase)	120 VAC/60 Hz, 20 amps
Compressor	3/4 hp
Dimensions	18"w x 31"h x 32"d (46 cm x 76 cm x 81 cm)
Shipping Weight	250 lbs. (114 kg)

Ordering Information for assistance, call 800-343-4048, 8 to 5 Eastern Time

Description	**Model Number**
FT-IR Purge Gas Generator	74-5041NA
Annual Maintenance Kit	74065
Replacement Compressor	74156
Preventative Maintenance Contract	SCFTIR-PM
Extended Support with 24 Month Warranty	74-5041-DN2