

# Self-Contained FT-IR Purge Gas Generator

Model 74-5041NA



The Parker Self-Contained FT-IR Purge Gas Generator completely eliminates the inconvenience and the high costs of nitrogen cylinders and dewars, while significantly reducing operating costs of the costs of operating FT-IR instruments. The Model 74-5041NA generates cleaner background spectra in a shorter period of time as well as more accurate analysis by improving the signal-to-noise ratio. It provides instruments with CO<sub>2</sub>-free compressed air at less than -100°F (-73°C) dewpoint with no suspended impurities larger than 0.01 micron, is quiet, reliable, and easy to install. Simply attach the outlet airline, plug the electrical cord into a wall outlet, and the unit is ready for operation.

## Product Features:

- Includes state-of-the-art and 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 throughput and maximizes up-time
- Special sound insulation design ensures quiet operation



## Ordering Information

Description	Model
FT-IR Purge Gas Generator	74-5041NA
Annual Maintenance Kit	74065
Annual Maintenance Kit Part Number	74065
Preventive Maintenance Plan	74-5041-PM
Extended Support with 24 Month Warranty	74-5041-EN2



ENGINEERING YOUR SUCCESS.

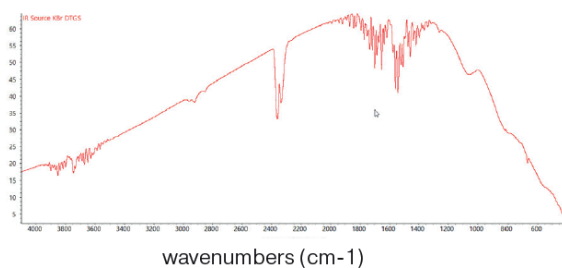
## Principal Specifications

Model 74-5041NA	
Maximum Flow Rate (at 80 psig)	60 SCFH (28 lpm)
Maximum Output Pressure	80 psig
CO2 Concentration	< 1 ppm
Dewpoint	-100°F (-73°C)
Outlet Port Size	Female 1/4" NPT
Minimum/Maximum 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	250 lbs (114 kg)

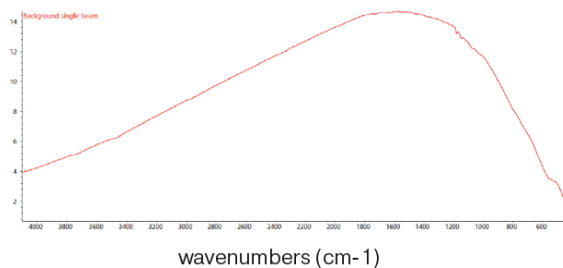
## Comparative Spectral Analysis in Purging an FT-IR Sample Chamber

The spectrum collected without purge gas is extremely noisy in several regions. When the sample is purged with a Parker Purge Gas Generator, water vapor and CO<sub>2</sub> are removed and the noise in the spectrum is removed so that important features in the spectrum can be observed.

**Single Beam Unpurged**



**Single Beam Purged**



Both samples were created using a Thermo-Nicolet iS 10 FTIR Spectrometer.