

FT-IR Purge Gas

Description: The Airgas® FT-IR Purge Gas Generator is specifically designed for use with FT-IR Spectrometers to provide a purified purge gas and air bearing gas from compressed air. The Generators supply carbon dioxide-free air at less than -100° F (-73° C) dew point with no suspended impurities larger than 0.01 µm. The units are designed to operate continuously 24 hours/day, 7 days/week. The Airgas® FT-IR Purge Gas Generator eliminates the need for nitrogen cylinders and dewars, and significantly reduces the costs of operating all FT-IR instrumentation. Each system offers 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 Generators are also ideally suited for use with CO₂ Analyzers in addition to supplying other laboratory instruments.

Each Generator is quiet, reliable, and easy to install - simply attach the inlet air and outlet purge lines, plug the power cord into a wall outlet, and enjoy trouble-free operation.

FT-IR Purge Gas Generators

GENERATORS



The Airgas® Self Contained FT-IR Purge Gas Generator includes a state-of-the-art compressor on Model Y80-745041NA.

Design Features

Improve Instrument Accuracy, Sensitivity, and Performance
system offers cleaner background Spectra.

State-of-the-Art
includes oil-less compressor (on Model Y80-745041NA) only.

Safe and Trouble-Free
reliable, easy to install and operates at low pressure.

Cost Effective
payback typically less than one year.

Compact Design
frees up valuable laboratory floor space.

Ordering Information		
Product Number	Flow Capacity (lpm/lpm)	Max Outlet Pressure (psig)
Y80-7545NA	9 lpm/ 17 lpm	125
Y80-7552NA	17 lpm/ 34 lpm	125
Y80-7562NA	57 lpm/ 102 lpm	125
Y80-745041NA	28 lpm	80

Specifications		
Inlet Air Pressure Range		60–125 psig
Max Outlet Air Pressure 7545NA, 7552NA, 7562NA 745041NA		125 psig 80 psig
Flow Rate for Specified Dew Point	7545NA	36 scfh (17 lpm) Inlet Pressure 125 psig 18 scfh (9 lpm) Inlet Pressure 60 psig
	7552NA	72 scfh (34 lpm) Inlet Pressure 125 psig 36 scfh (17 lpm) Inlet Pressure 60 psig
	7562NA	216 scfh (102 lpm) Inlet Pressure 125 psig 120 scfh (57 lpm) Inlet Pressure 60 psig
	745041NA	60 scfh (28 lpm) Max Flow Rate at 80 psig
CO₂ Concentration		< 1 ppm
Dew Point Down To		-100° F (-73° C)*
Max Inlet Air Temperature (1) 7545NA, 7552NA, 7562NA 745041NA (Ambient)		78° F (25° C) 90° F (32° C)
Air Consumption for regeneration (2)	7545NA	30 scfh (14 lpm)
	7552NA	60 scfh (28 lpm)
	7562NA	120 scfh (57 lpm)
	745041NA	N/A
Nitrogen Outlet Port		1/4" FNPT
Electrical Requirements		120V/60Hz
Dimensions (HxWxD)	7545NA	13" H x 7" W x 6" D (33cm x 18cm x 15cm)
	7552NA	28" H x 13" W x 9" D (71cm x 32cm x 23cm)
	7562NA	42" H x 13" W x 9" D (71cm x 32cm x 23cm)
	745041NA	31" H x 18" W x 32" D (76cm x 46cm x 81cm)
Weight	7545NA	25 lbs (11kg)
	7552NA	40 lbs (20kg)
	7562NA	80 lbs (36kg)
	745041NA	250 lbs (114kg)

*at atmospheric pressure