

Membrane Nitrogen Generators

PerkinElmer offers customers a new line of nitrogen generators to meet the growing need for cost effective and pure nitrogen. Membrane Nitrogen Generators are designed to supply single or multiple LC/MS instruments with dry nitrogen at purities of 98% to 99.5%. The generator can also be used for solvent evaporation as well as supplying dry nitrogen to analytical instruments.

Nitrogen is produced by utilizing a combination of filtration and membrane separation technologies. A high efficiency pre-filtration system pre-treats the compressed air to remove all contaminants down to 0.01 micron. Hollow fiber membranes subsequently separate the clean air into a concentrated nitrogen output stream and an oxygen enriched permeate stream, which is vented from the system. The combination of these technologies produces a continuous on demand supply of pure nitrogen.

LC/MS Nitrogen Generators with Integrated Compressors

Description	Specification
Purity	>98%
Min/Max Operating Pressure	101.5 psi/g
Height	70.1 cm (27.8 in.)
Width	51.1 cm (20.1 in.)
Depth	58.2 cm (22.9 in.)
Weight	135.2 kg (298 lbs)
Operating Temperature	+5 °C to +40 °C (+41 °F to +104 °F)
Port Connection Outlet	1/4 in. Compression Fitting
Electrical Requirements	120 V/60 Hz or 230 V/50 – 60 Hz ± 10%
Air Compressor	Yes
Flow Rates	30 L/min
Part No.	N9303223 (120 V) ; N9303224 (230 V)



Technical Specifications

Description	Low Flow NitroFlow Lab with built in compressor	N ₂ -22 Mid Flow	N ₂ -35 Mid Flow	N ₂ -45 High Flow
Purity	94.0 – 99.5%	95.0 – 99.5%	95.0 – 99.5%	95.0 – 99.5%
Min/Max Operating Pressure	8 bar (116 bar)	60/145 psig (4.0/10 barg)	60/145 psig (4.0/10 barg)	60/145 psig (4.0/10 barg)
Height	70 cm (27.6 in.)	13 cm (5.1 in.)	13 cm (5.1 in.)	140 cm (55.1 in.)
Width	31 cm (12.2 in.)	45 cm (17.8 in.)	45 cm (17.8 in.)	61 cm (24.0 in.)
Depth	90 cm (35.4 in.)	41 cm (16.1 in.)	41 cm (16.1 in.)	50 cm (20.0 in.)
Weight	127.4 kg (280 lbs)	36 kg (80 lbs)	41 kg (90 lbs)	114 kg (250 lbs)
Operating Temperature	+10 °C to +35 °C (+50 °F to +95 °F)	+15 °C to +35 °C (+60 °F to +95 °F)	+15 °C to +35 °C (+60 °F to +95 °F)	+15 °C to +35 °C (+60 °F to +95 °F)
Electrical Requirements	120 V/60 Hz, 20 Amp Nema 5	None	None	None
Air Compressor	Yes	No	No	No
Flow Rates	32 L/min	100 psi inlet – 20 L/min output – 99.0% purity	100 psi inlet – 30 L/min output – 99.0% purity	100 psi inlet – 53 L/min output – 99.0% purity
Part No.	N9306213 (120 V) N9306214 (230 V)	N9306210	N9306211	N9306212