Membrane Nitrogen Generators



Applications: LCMS / Solvent Evaporation / ELSD Detectors / Corona Detectors

IATT offer a range of Membrane Nitrogen Generators that use membrane filtration technology as the core of the process based on the selective permeation principle.

Membrane Nitrogen Generators uses filtration to separate nitrogen from atmospheric air that is passed through an air compressor into the generator. The dry compressed air stream is passed through bundles of semi-permeable hollow fibre filtration membranes that are configured into a cartridge style. Under pressure oxygen, water vapour and other trace gases, which are fast gases, readily permeate through the micro porous structure of the hollow fibre filtration membranes. The nitrogen molecules which present a speed of slower distribution stay within the membrane and pass along the hollow fibres to the outlet to be further filtered and used in the application.

The low pressure drop of Membrane Nitrogen Generators allows the unit to be connected to an existing clean, dry and oil-fee compressed air supply in the laboratory. Combined nitrogen/dry air is available to meet the requirements in terms of flow, purity and pressure for ABI LC-MS applications.

Features

- Constant high purity Nitrogen.
- Saves space in the laboratory.
- Minimal maintenance.
- Touch screen control option.
- No need to handle gas cylinders.

IATT provide Rapid Responsive Maintenance programmes to ensure laboratory downtime is minimised Purity N2: >99.5%

AiroGen





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Technical

Flow Rates: 8, 40, 80, 120 L/min. N2 / Dry Air flow rates available for ABI SIEX LCMS. Nitrogen purity: > 99%. N2 Dewpoint < -40°C. Outlet Pressure: 4.2 – 7 bargg depending on flow rate

COMBINED N2/AIR FOR ABI LC-MS SYSTEMS								
Specifi cations	STREAM-TF							
N2 for curtain gas	12 l/min N2 @ 5.5 bar							
Dry Air for source gas	24 l/min @ 7.6 bar							
Dry Air for exhaust gas	8 l/min @ 4.2 bar							
Residual particulates	< 0.01 µ							
Dewpoint at operating pressure	-40°C							
Maximum operating temperature	10°C –35°C							
Electrical specifi cation	none							
Inlet/outlet connections	1/4 G							
Weight (Kg)	26 kg							

Specifications	Flow rate (Max.)	N2 Outlet pressure	Air fl ow rate Required @ 8 bar	Pressure loss	Air inlet pressure Min/max	Particles	N2 dewpoint at operating pressure	Maximum operating temperature	Electrical specifi cation	Inlet/outlet connections	Weight
STREAM-8	8 L/min >99%	7 bar	28 l/min	< 0.8 bar	5-13 bar	< 0.01 micron	-40 °C	10°C – 35°C	none	1/4G	15 Kg
STREAM -40	40 L/min >99%		140 l /min	(10 psig)							22 Kg
STREAM-80	80 L/min >99%		280 l /min								26 Kg
STREAM-120	120 L/min >99%		420 l/min								30 Kg



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