

NM Plus Hydrogen Generator
230W x 480H x 370D (9W x 19H x 15D)



NM PLUS LAB HYDROGEN GENERATOR

The new NM PLUS LAB hydrogen generator series uses the latest polymer electrolyte membrane (PEM) technology to produce high purity hydrogen. The exclusive "No Maintenance" gas column cold dryer regeneration system eliminates all down time for maintenance that is typical of other systems on the market, assuring the best hydrogen purity at all times.

The NM-H2 series generators are ideal for:

- New design
- Flame ionization detector (FID)
- Carrier gas for GC and GC-MS
- Fast GC
- Collisions on ICP-MS
- Small fuel-cell cylinder refills

NM PLUS LAB HYDROGEN GENERATORS

SPECIFICATIONS

- Models available: 100, 160, 250, 300, 500, 600, 1000 ml / min.
- Purity: 99.99996%
- Outlet pressure adjustable by electronic controller up to 11 barg (160 psig)
- Full microprocessor control
- LCD touch screen interface or push buttons: real time outlet pressure, water quality, autodiagnosics with alarms / flowmeter
- Leak detectors, water level and quality sensors
- Optimized powerful water pump for PEM cell
- Easy and quick use: no caustic solution used and automatic cold dryer regeneration
- Earthquake / shock sensor
- Low energy consumption
- Software upgrade by standard USB
- Certification: CE, CSA, FCC

BENEFITS

IMPROVED CHROMATOGRAPHY RESULTS

Hydrogen as a carrier gas is faster and more sensitive than the more expensive helium. Run time savings of 25% to 35% without a decline in resolution.

SAFETY

The very limited internal volume (less than 50 ml) allows safe use of the gas generators where the use of cylinders is risky or prohibited. The application of tested safety technologies stops the unit in the event of leaks or malfunctions.

SAVINGS

Hydrogen gas generators avoid the need for expensive installation of gas pipelines from the cylinder storerooms to the labs, as well as the need to repeatedly change the bottles. Longer analytical column life The use of hydrogen as a carrier gas allows lower temperature elution, thus extending the life of the chromatograph column.

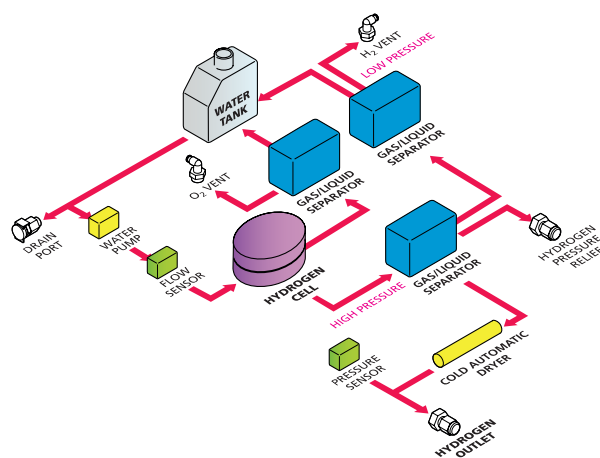
LAB PRODUCTIVITY

Continuous operation 24 hours a day allows maximum lab productivity, cutting dead time for gas bottle changeover and maintenance of the drying system.

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OPERATING DIAGRAM

Hydrogen is produced using distilled or deionized water from hydrolysis, through a polymer membrane. Electrolytic dissociation separates the water into its two main components: hydrogen ready for analytical use, and oxygen that is released into the air. No acid no alkaline solutions are used in the hydrogen generation cycle. The patented automatic drying system ensures the maximum grade of hydrogen purity. The exclusive cascading option allows up to 32 units to be connected in series, producing flow-rates of up to 32 litres also via Intranet!



MODELS	NM-100 PLUS	NM-160 PLUS	NM-250 PLUS	NM-300 PLUS	NM-500 PLUS	NM-600 PLUS	NM-1000 PLUS
Flow ml / min.	100	160	250	300	500	600	1000
Weight (kg)	17	17	17	17	18	18	20
Cascading	YES (Up to 32 units)						
Technology	polymer electrolyte membrane (PEM)						
Dryer	exclusive cold dual dynamic regeneration system						
Purity	99.99996%						
Outlet pressure	1-160 psig / 0.1-11 barg						
Internal volume	< 50 ml at max pressure						
Display	touch screen with operating parameters, system status, alarms						
LED indicators	power on / off, system ready, errors						
Options	RS232 / RS485 and USB, autorefill, external contacts, PC control, intranet						
Water quality	Deionized or demineralized (<10uS)						
Power	110-120V 60Hz / 220-240V 50Hz						
Dimensions (mm)	230W x 450H x 370D						
Connections	1 / 8 swagelock						
Certification	CE, CSA, FCC						