

Hydrogen Generator

NM-H₂ Series

The NM-H₂ series hydrogen generators use the latest polymer electrolyte membrane (PEM) technology to produce high purity hydrogen. The exclusive “No Maintenance” gas column dryer regeneration system eliminates all down time for maintenance that is typical of other systems on the market, guaranteeing the best hydrogen purity at all times.

Features

Superior Chromatograph 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.

Improved 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.

Cost Saving

- 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.
- The patented automatic regeneration system ensures the maximum grade of hydrogen purity with no expense for change of cartridge and Deionized bag.

Extended Analytical Column Life

- The use of hydrogen as a carrier gas allows lower temperature elution, thus extending the life of the chromatograph column.

Excellent 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.
- The exclusive cascading option allows up to 10 units to be connected in series, producing flow rates of up to 10 liters.

Intuitive Control

- LCD display interface: real time outlet pressure, water quality, auto diagnostics with alarms
- Outlet pressure: adjustable by electronic controller up to 10 bar

PG-H₂ Series

The PG-H₂ series hydrogen generators use the latest polymer electrolyte membrane (PEM) technology to produce high purity hydrogen. It meets most features of NM-H₂ series except for automatic regeneration system at economic cost. Supplying ultra pure water, DI(Deionized) bag is not to be replaced.

NM-H₂ Series Specification

Model	NM-H ₂ -100	NM-H ₂ -160	NM-H ₂ -250	NM-H ₂ -300	NM-H ₂ -500	NM-H ₂ -600	NM-H ₂ -1000
Flow rate (ml/min)	100	160	250	300	500	600	1000
Technology	Polymer Electrolyte Membrane (PEM)						
Dryer	Exclusive Dual Automatic Regeneration System						
Purity	99.9999%						
Cascading	NO	NO	YES	YES	YES	YES	YES
Water quality	Deionized or Demineralized						
Outlet pressure	1~155psi / 0.1~10bar						
Internal vol.	< 50ml at max pressure						
Display	Operating parameters, System status, Alarms						
Dimension(mm)	230W x 430H x 353D						
Weight (kg)	17	17	17	17	18	18	20
Options	RS 232C or RS 485, Autorefill, external contacts, PC control						
Applications	<ul style="list-style-type: none"> - Ionization Flame Detector (FID), Carrier gas : GC & CG-MS - Fast GC, Collisions : ICP-MS - Small Fuel-Cell Cylinder Refills 						

PG-H₂ Series Specification

Model	PG-H ₂ -Series
Flow rate (ml/min)	100-160-250-500-600
Electrolysis Cell	Membrane Type
Delivery Pressure	100psi - 7bar(Max.)
Purity	99.9999%
Safety	Auto Shut-off
Water	Deionized or Distilled
Dimension(mm)	200W x 410H x 400D
Weight (kg)	16
Options	Remote Control

