

H2N2 65 LC

High-Purity Hydrogen and nitrogen generator



DESCRIPTION:

LEMAN Instruments designed the H2N2 65 LC product line of High-Purity Hydrogen and nitrogen generators with compressors to supply H₂ and N₂ independently, carrier gas for GC, close to the consumer in an elegant casing with a full-color display and touchscreen. The H2N2 65 LC is composed of a high-purity Hydrogen and Nitrogen generator and an oil-free piston air compressor.

Based on the field-proven Solid Polymer Electrolyte (PEM) cell technology, pure Hydrogen is produced at low pressure from electricity and high-quality distilled water. After production, H₂ is dried by a passive dryer. It is available 24/7 with a constant purity >99.99995%. Output pressure is regulated electronically and could be set from 0.5 to 5 bar. This process can be started on demand without an acidic solution.

N₂ is dried and purified or extracted using Pressure Swing Adsorption (PSA) technology. Output pressures are regulated from 0.5 to 5 bar.

Gases are available 24/7 with constant purity.

Each instrument is equipped with high-performance communication interfaces, USB, RS485, and Ethernet, to create a very flexible gas network with local or central control.

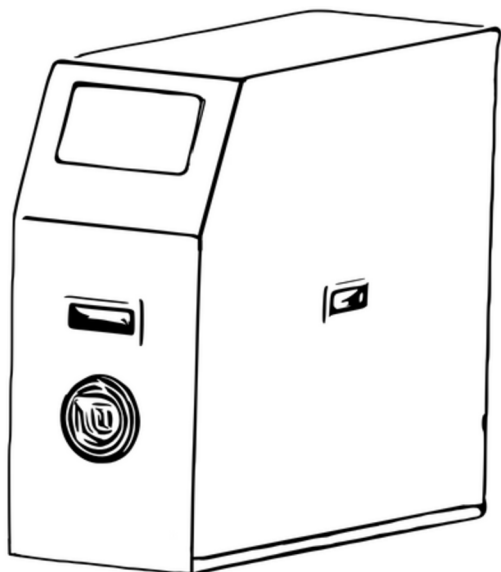


APPLICATION TYPES:

- Makeup gas, GC-FID
- Carrier gas for GC

FEATURES:

- Reduces in operation costs. Return on investment within 15 months.
- Improves resolution and detection limit versus Helium-only usage. Provides high pressure stability.
- N₂ and N₂ are available 24/7 at constant purity. No contamination.
- Independent source of Nitrogen that does not require complex piping and can be easily moved around the laboratory.
- Very safe operation, internal leak-test, automatic shut-down, over-pressure valve, current and voltage limits.
- No handling and storage of cumbersome gas cylinders. No cylinder rental fee.
- Long-life compressor with power economy function.



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MODELS	H2N2 65 LC-250/500
LPM O2 Outflow @ 1013/20°C	H2: 0.25 LPM N2 : 0.5 LPM
H2 Purity	>99.99995% (maximum HC content: 0.05 ppm)
N2 Purity	>99.99995%
Dew point	-70°C / -70°C / -70°C or <1ppm H2O for each gas
Outlet Pressure	0.5 – 5 bar (7 – 72 psig) for 2 gases

Dimensions cm / in	L: 55cm / l: 41.5cm / H: 12cm (3U) L: 21.6in / l: 16.1in / H: 4.7in (3U)
Net weight (kg/lbs)	35kg/77lbs

Water Quality	High-purity distilled filtered water. TOC free.
Water Consumption	5L external tank. Generates about 6000L of Hydrogen
Compressed AIR	Supplied by internal oil-free piston compressor
Manual control	Through a 7" TFT-LCD color display with a touch screen on the front panel. Display of major parameters, pressure, functioning status, and alarms. Intuitive navigation to functions by menus and sub-menus
Remote control, Communications	• RJ45 / USB / RS485 • Through Ethernet 10/100 network • Log book download by USB
Input & Output fittings	Stainless steel 1/8" compression / any connector requested by the customer
Power supply	260 VAC & 63 Hz
Power consumption (max at full flow)	Maximum 650W
Ambient temperature	+5 to +35°C, non-condensing

