

H2N2 65 RC

High-Purity Hydrogen and nitrogen generator



DESCRIPTION:

LEMAN Instruments designed the H2N2 RC product line of a High-Purity Hydrogen and nitrogen Generator with a compressor to supply independently H2 and N2, carrier gas for GC, close to the consumer in an elegant casing with a full-color display and touchscreen.

The H2N2 RC 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 and does not require any caustic 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.

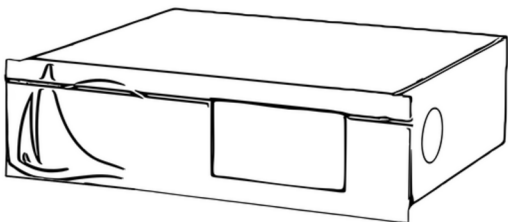


APPLICATION TYPES:

- 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.
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- Very safe operation, internal leak-test, automatic shut-down, over-pressure valve, current and voltage limits.
- No handling and storage of cumbersome gas cylinders. There is no cylinder rental fee.
- Long-life compressor with power economy function



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MODELS	H2N2 65 RC-250 H2N2 65 RC-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

