

H2ZAN2 65 RC

High Purity Hydrogen & Zero Air & Nitrogen Generator



DESCRIPTION:

LEMAN Instruments designed the H2ZAN2 65 RC product line of High Purity Hydrogen & Zero Air & Nitrogen Generator with the compressor to supply independently all gases necessary to aliment GC and GC/MS, close to the consumer in 2 elegant 19" Rack casings with full-color display and touchscreen. Only one 3U casing for the smallest capacities.

The H2ZAN2 65 RC comprises a high purity Hydrogen generator, Zero Air and Nitrogen generators, and an air compressor system.

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.

Compressed air passes through a Pressure Swing Adsorption (PSA) module to dry and filter it from pollutant gases. Based on the same concept, Nitrogen is extracted from a set of filters filled with CMS. Both Output pressures are regulated electronically from 0.5 to 5 bar.

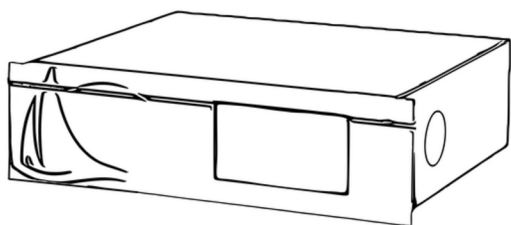


APPLICATION TYPES:

- Combustion gases for FID
- Carrier gases for GC
- Any other analytical application

FEATURES:

- Reduces in operation costs. Return on investment within 12 months
- Improves resolution and detection limit versus Helium-only usage. Provides high pressure stability
- H₂, N₂, and Zero Air are available 24/7 at constant purity. No contamination
- Independent source of Hydrogen, N₂, and Zero Air that does not require complex piping and can be easily moved around the laboratory. Remote control via Ethernet
- Low noise compressor
- 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



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Leman Instruments

MODELS	H2ZAN2 65 RC-250/3/500
LPM O2 Outflow @ 1013/20°C	H2: 0.25 LPM ZA: 3 LPM
H2 Purity	>99.99995% (maximum HC content: 0.1 ppm)
AIR Purity	< 0.05 ppm HCnm; < 0.05 ppm CO and CH4
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 Source	2L tank or auto-refill
Water Consumption	2L water generates about 6000L Hydrogen
Compressed AIR	Built-in compressor / If without built-in compressor: Oil-free, supplied by an external source.
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 750W
Ambient temperature	+5 to +35°C, non-condensing

