

H2ZA 65 LC

High-Purity Hydrogen and Zero-Air generator



DESCRIPTION:

LEMAN Instruments designed the H2ZA 65 LC product line of High-Purity Hydrogen and Zero-Air generators with a built-in compressor to independently supply the two gases necessary to the FID detector. The generators are close to the consumer in an elegant casing with a full-color display and touchpad.

The H2ZA 65 LC is composed of a Hydrogen generator, an Ultra-Zero-Air generator, and an 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. It is available 24/7 with a constant purity >99.99995%.

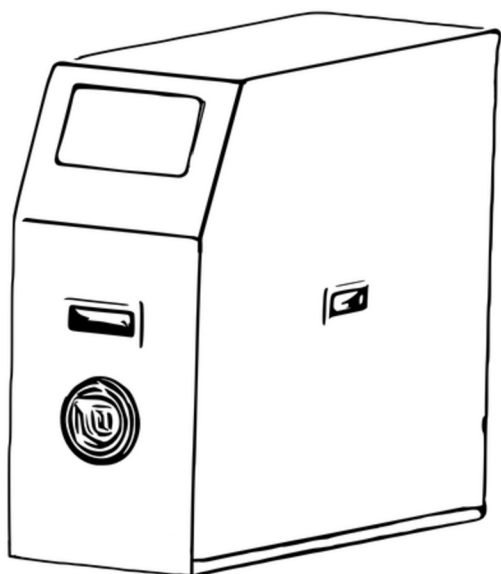
Output pressure is regulated electronically and could be set from 0.5 to 5 bar. This process can be started on demand and does not require any caustic solution.

Based on the Pressure Swing Adsorption (PSA) technology, compressed Air is first dried and filtered from pollutant gases and then passed through a hot catalytic chamber to remove HC, CO, and CH₄. Output pressure is regulated from 0.5 to 5 bar.



APPLICATION TYPES:

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



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 and Zero Air are available 24/7 at constant purity. No contamination
- Independent source of Hydrogen and Zero Air that does not require any complex piping and can be easily moved around the laboratory
- 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. No cylinder rental fee



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MODELS	H2ZA 65 LC-250/3
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	>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

