

GCSTATION NEO

A high-purity Hydrogen generator, zero-air & Nitrogen generator.



DESCRIPTION:

After more than ten years of successful production, Leman Instruments Engineering decided to update the famous GCSTATION 50LC to 2026 requirements. Meet the new GCSTATION NEO.

The GCSTATION is a High-Purity Hydrogen, Zero-Air, and nitrogen Generator with a compressor that supplies independently all gases necessary to aliment GC and GC/MS. The generator is close to the consumer in an elegant casing with a full-color display and touchscreen.

The GCSTATION NEO comprises a high-purity Hydrogen generator, zero-air and Nitrogen generator 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 >99.9995%. Output pressure is regulated electronically and could be set from 0.5 to 5 bar (depending on the gas).

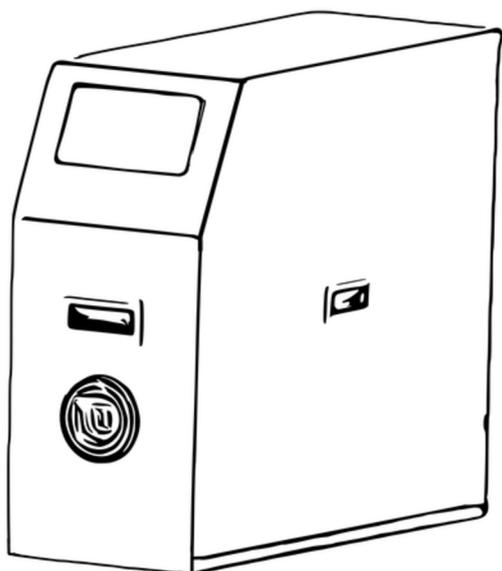


APPLICATION TYPES:

- Combustion, carrier and make-up gases for GC and GC/MS

FEATURES:

- Reduces in operation costs. Return on investment within 12 months
- Improves resolution and detection limit versus Helium-only usage. Provides high-pressure stability and constant purity of gases
- H₂, Zero Air, and N₂ are available 24/7 at constant purity. No contamination
- An independent source of Hydrogen, Zero Air, and Nitrogen does not require complex piping and can be easily moved around the laboratory. It can be controlled remotely from a PC
- 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	GCSTATION NEO
Gas Outputs	Hydrogen (H2) Nitrogen (N2) Zero Air (ZA)
Outflow @1013 hPa / 20°C	H2: 300 cc/min N2: 500 cc/min Zero Air: 3 LPM
H2 Purity	> 99.9995% (maximum HC content: 0.1 ppm)
N2 Purity	> 99.9995% N2
Zero Air Purity	< 10 ppm
Dew Point	-60°C for all gases
Outlet pressure	0.5 – 5 bar (7 – 72 psig) for 3 gases
Water Quality	High-purity distilled filtered water. TOC free
Water Source	2L tank or auto-refill
Water Consumption	2L water generates approx. 2500L Hydrogen

Dimensions cm / in	L: 60cm / I: 22.5cm / H: 50cm L: 23in / I: 9in / H: 20in
Net weight (kg/lbs)	39kg/85lbs

Compressed AIR	Built-in compressor included
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 Logbook download by USB
Input & Output fittings	Stainless steel 1/8" compression (or connector as requested)
Power supply	260 VAC & 63 Hz
Power consumption (max at full flow)	Maximum 650W
Ambient temperature	+5°C to +35°C, non-condensing

