GCSTATION NEO

Hydrogen, Zero Air & Nitrogen Generator for GC & GC/MS

Leman Instruments

DESCRIPTION:

After more than ten years of successful production, Leman Instruments Engineering updated the famous GCSTATION 50LC to 2026 requirements. Meet the new GCSTATION NEO: the most compact and advanced all-in-one gas solution on the GC market, and the natural companion of every GC and GC/MS system.

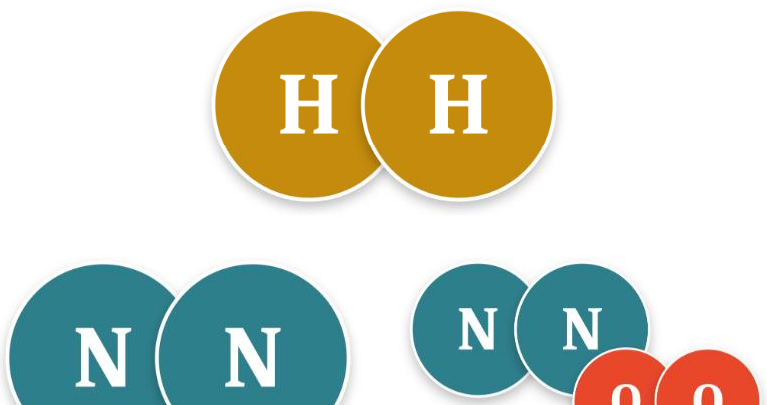
It combines a high-purity Hydrogen generator, a Zero-Air and Nitrogen generator, and an air compressor in a single, elegant casing close to the consumer, controlled through a full-colour touchscreen. A single unit can supply up to 5-6 classic FID detectors.

Hydrogen is produced using field-proven Solid Polymer Electrolyte (PEM) cell technology from electricity and high-quality distilled water, then dried by a passive dryer, delivering a constant purity above 99.9995% around the clock. Output pressure is regulated electronically, from 0.5 to 9 bar for H2 and 0.5 to 6 bar for N2 and Zero Air, each adjustable independently by the user on the touchscreen.



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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MODELS	GCSTATION NEO
Gas Outputs	Hydrogen (H2) Nitrogen (N2) Zero Air (ZA)
Outflow @1013 hPa / 20°C	H2: 0.25 LPM N2: 0.25 LPM Zero Air: 2.5 LPM
H2 Purity	> 99.9995% (maximum HC content: 0.1 ppm)
N2 Purity	> 99.9995% N2
Zero Air Purity	>99.9995% ZA · <10ppm H2O · <50ppb THC, CO and CH4
Dew point	-60°C for all gases
Outlet Pressure	H2: 0.5 to 9 bar (7 to 130 psig) N2 & Zero Air: 0.5 to 6 bar (7 to 87 psig)
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 / l: 22.5cm / H: 50cm L: 23in / l: 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

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