TRIO LCMS

N2 + Zero Air Gas Station

Designed for the AB-SCIEX LC/MS Series

Leman Instruments

DESCRIPTION:

Leman Instruments designed the TRIO LCMS Gas Station to deliver, from a single unit, the Nitrogen and Air flows, purities and pressures required by the AB-SCIEX API 3200 to QTRAP 5500 LC/MS Series.

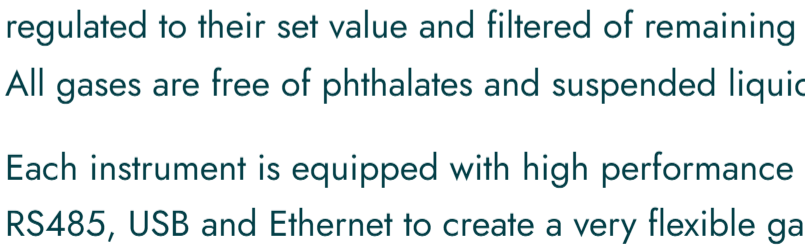
Compressed Air, supplied by an external source, is first filtered, then stored in a buffer tank. A first single-stage Smart PSA unit extracts Nitrogen at >99.999% purity through a set of filters filled with carbon molecular sieve. A second single-stage Smart PSA unit dries and cleans the Air.

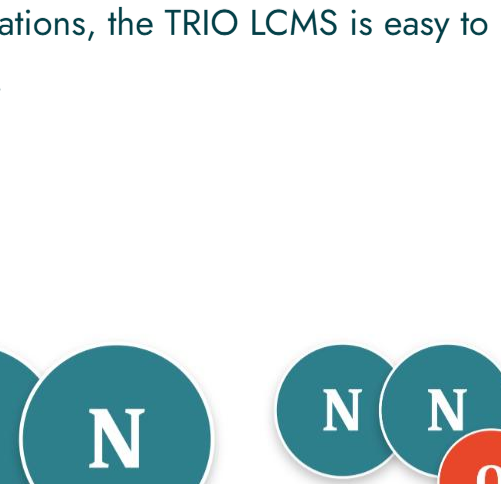
The three output lines — Source gas, Curtain gas and Exhaust gas — are each regulated to their set value and filtered of remaining particulates down to 0.1µm. All gases are free of phthalates and suspended liquid.

Each instrument is equipped with high performance communication interfaces RS485, USB and Ethernet to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation and reliable communications, the TRIO LCMS is easy to install, reliable, safe and pleasant to operate.





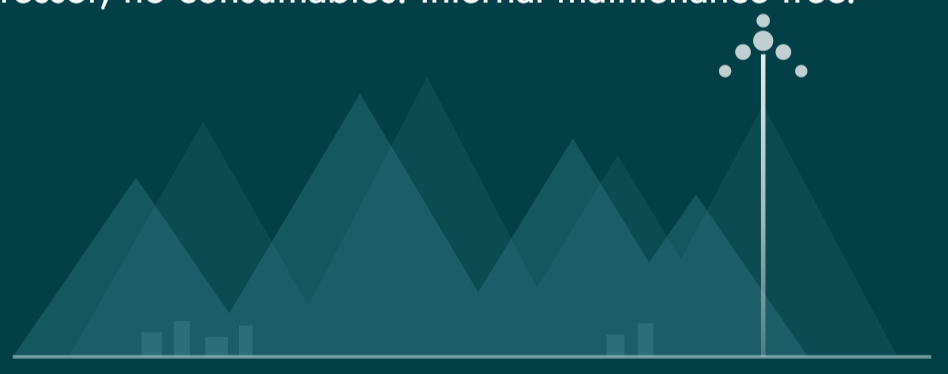


APPLICATION TYPES:

- N2 + Zero Air supply for AB-SCIEX 3200 to 5500 LC/MS
- Curtain gas (UHP N2)
- Source gas (Zero Air)
- Exhaust gas (Dry Air)

FEATURES:

- Reduces operation costs. Return on investment within 12 months maximum (exact estimate with our ROI calculator). Integrated Power Economy function.
- Three gases from one unit: Curtain, Source and Exhaust gas for AB-SCIEX LC/MS.
- Gases available 24/7 at constant purity. No phthalates, no liquid in suspension.
- Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- No handling, no storage, no cylinder rental fee.
- No compressor, no consumables. Internal maintenance free.



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MODELS	TRIO LCMS-25/20/25
Max Outflow @1013 / 20°C	Source gas: 25 NL/min Zero Air Curtain gas: 20 NL/min N2 Exhaust gas: 25 NL/min dry air
Gases purity	Source: dry Zero Air, <0.1ppm HC Curtain: >99.999% N2, <0.1ppm HC, -45°C dew point Exhaust: dry compressed air
Contaminants	Phthalates and suspended liquid free
Outlet Pressure	Individually controlled and adjustable via touchscreen from 0.5 to 8 bar (7 to 116 psig)
Dimensions cm / in	L: 70cm / l: 48cm / H: 69cm (27.5in / 18.8in / 27.1in)
Net weight (kg/lbs)	Max. 100kg / 220lb

Compressed AIR	Supplied by external compressed air supply
Separation process	Two single-stage Smart PSA units
Manual control	Through a 7" TFT-LCD color display with touch screen on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub-menus.
Remote control, Communications	• USB, RS485 (Mod-Bus) or Display • Through Ethernet 10/100 network • Logbook download by USB
Output fittings	BSP female 1/4" cylindrical
Power supply	100 to 120VAC or 220 to 240VAC, 50 to 60 Hz
Power consumption	Maximum 500W
Sound pressure	<59 dB(A) @ 1m
Certification	CE, UL and CSA