



Leman Instruments

TRIO18LCMS – GAS STATION FOR AB-SCIEX LC/MS SERIES



N₂ + AIR

APPLICATION

- ✓ **N₂ + ZERO AIR Generator for AB-SCIEX 3200 to 5500 LC/MS**
 - Curtain gas (UHP N₂)
 - Source gas (Zero Air)
 - Exhaust gas (Dry Air)

DESCRIPTION

LEMAN-Instruments designed the **TRIO18LCMS Gas Station** to meet the Nitrogen and Air flows, purities and pressures required by the AB-SCIEX API3200 to Q-TRAP 5500 LCMS Series.

Functioning Principle : Partially dried compressed Air is provided by the internal oil-free scroll, low noise and low vibration compressor module. The line of compressed Air is filtered from HC down to < 0.1ppm through a catalytic oven and then stored in a tank; it alimnts a first single stage Pressure Swing Adsorbtion (PSA) unit, where Nitrogen with purity >99.5% is then extracted from AIR by a set of filters filled up with CMS; a second single stage PSA unit dries Air. Output lines are regulated to the set values and filtered of remaining particulates down to 0.1µm. The TRIO18LCMS Gas Station is equipped with a Power Economy Function which switches off the compressor when Air consumption is reduced or stopped.

Each instrument is equipped with high performance communication interfaces RS485,USB, (Ethernet, WLAN as options) 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 **TRIO18LCMS Gas Station** is easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 18 months. Integrated Power Economy function.
- ✓ Gas sources available 24/7 at constant purity. No contamination.
- ✓ Independent sources of High Purity N₂ and Zero Air. No phtalates, no liquid in suspension.
- ✓ Integrated oil-free scroll Air compressor with Air treatment. Can be easily moved around the laboratory.
- ✓ Low functioning noise
- ✓ Remote control from PC, I-phone and tablett.(options)
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.
- ✓ Long life compressor.

GAS STATION FOR AB-SCIEX LC/MS SERIES

SPECIFICATIONS

Model	TRIO18LCMS-24/12/8
Gas outflows @ 1013/20°C	Gas1-Source gas : 24 NI/min ZERO AIR Gas2-Curtain Gas :12 NI/min N2 Gas3-Exhaust Gas : 8 NI/min dry AIR
Gases purity	Gas1 : dry Zero Air, <0.1ppm HC, phthalates and suspended liquid free Gas2 : >99.5% N2, <0.1ppm HC, phthalates and suspended liquid free Gas3 : dry compressed Air
Output Pressures	Gas1 : 7 to 7.5 bar Gas2 : 2.5 to 4.5 bar Gas3 : 3.5 to 4.5 bar
Compressed AIR	Supplied by internal Oil free scroll compressor. Automatic drying. Power Economy function.
Manual control	Through a 4.3" TFT-LCD color display with touch screen, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control, Communications	<ul style="list-style-type: none">■ USB. RS485 (Mod-Bus) or Display..■ Trough Ethernet 10/100 network (option)■ Log book download by USB.
Outlet fittings	BSP female 1/4" cylindrical
Noise level	< 59 dB(A) @ 1m
Power supply	100 to 120 VAC 50-60 Hz or 220 to 240VAC, 50 to 60 Hz
Power consumption	max. 2000W
Dimensions	W=55cm, H=100cm, D=80cm (castors included)
Weight (net)	180Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
TRIO18LCMS-24/12/8-230V	757202

LEMAN - INSTRUMENTS SAS

Archamps Technopole, 60 Avenue Marie-Curie
F – 74160 ARCHAMPS

info@leman-instruments.com

Telephone: +33 4 50 39 49 22

www.leman-instruments.com