

AEROTOC/FTIR LC

UHP Air Generators for TOC/THC/FTIR analyzers



DESCRIPTION:

LEMAN Instruments designed the AEROTOC/FTIR LC product line of UHP Air Generators for TOC/THC/FTIR analyzers with compressors to fit almost any application that needs Ultra-High-Purity Air close to the consumer in the laboratory environment.

Compressed air, supplied from central distribution or the external Air compressor, is first filtered from CO, CH₄, and HC; then, based on the field-proven Pressure Swing Adsorption (PSA) technology, CO₂, moisture, and the remaining HC is removed. After the purification process, UHP Air is filtered of remaining particulates down to 0.1µm, and pressure is regulated electronically to the set value, between 0.5 and 5 bar.

Models with outflows of max 1.5 & 3 L/min AIR are available.

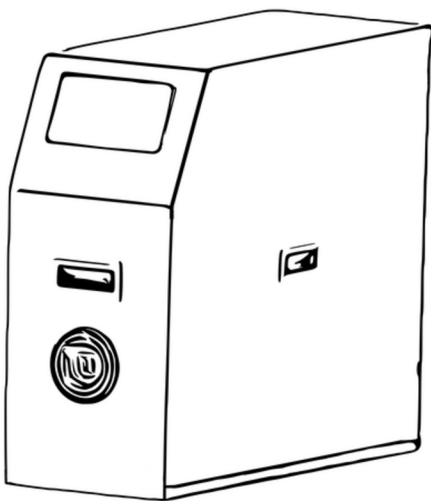
Each instrument has high-performance communication interfaces (Ethernet) to create a flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation, and reliable communications, the AEROTOC/FTIR LC Generator for TOC/THC/FTIR is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Burning gas, zero gas, and carrier gas for THC, TOC, and BTX Analyzers
- Purge gas for FTIR
- CO₂ Free ZA



FEATURES:

- Reduces in operation costs. Return on investment within 15 months.
- No maintenance or consumables
- Improves resolution and detection limit. Provides high pressure stability.
- Silicon free air
- UHP-Air is available 24/7 at constant purity. No contamination.
- Independent source of Ultra High Purity Air. Needs only a dry, oil-free compressed air supply and electricity. It can be easily moved around the laboratory.
- Remote control
- Low noise compressor
- Long-life compressor with power economy function.
- No handling, No storage, No cylinder rental fee



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MODELS	AEROTOC/FTIR LC-1.5 AEROTOC/FTIR LC-3
LPM Outflow @1013 HPA / 20°C	AEROTOC/FTIR LC-1.5: 1.5 LPM AEROTOC/FTIR LC-3: 3 LPM
AIR purity	< 5 ppm H₂O < 1 ppm CO₂ < 0.25 ppm HC < 0.25 ppm CO and CH₄ - particulates <0.01µm
Dew point	-60°C
Outlet Pressure	From 0.5 to 5 bar (7 to 72 psig)

Dimensions cm / in	L: 61cm / l: 22.5cm /H: 36.5cm L: 24in / l: 8.6in /H: 14.1in
Net weight (kg/lbs)	25kg/55lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3
AIR pressure	Minimum: 1.5 bar (20 psig) Maximum 10 bar (145 psig)
Manual control	Through a 7" TFT-LCD color display with a touchpad located 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	Through Ethernet 10/100 network RJ45
Input & Output fittings	Stainless steel 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	700W
Ambient Temperature	+10 to +35°C

