

AEROTOC/FTIR RC

UHP Air Generators for TOC/THC/FTIR analyzers



DESCRIPTION:

LEMAN Instruments designed the AEROTOC/FTIR R product line of UHP Air Generators for TOC/THC/FTIR analyzers 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 from 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 1.5 and 3 L/min AIR are available.

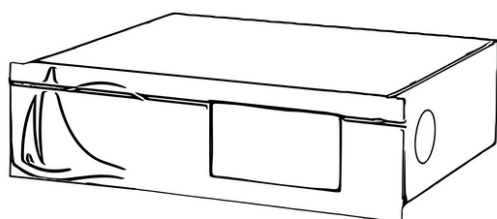
Each instrument has high-performance communication interfaces (Ethernet) to create a flexible gas network with local or central control.

The software is focused on safety, automatic regulation, and reliable communications, so the AEROTOC/FTIR R 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
- No handling, No storage, No cylinder rental fee



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

Dimensions cm / in	L: 35cm / l: 41.5cm / H: 12cm (3U) L: 13.7in / l: 16.1in / H: 4.7in (3U)
Net weight (kg/lbs)	19kg/41lbs

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	From 90 to 120 VAC OR 210 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	700W
Ambient Temperature	+10 to +35°C

