AERO FTIR L

UHP Air Generator for FTIR Spectrometers

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the AERO FTIR L product line of UHP Air Generators for FTIR spectrometers to fit almost any application that needs CO2- and moisture-free purge air close to the consumer in the laboratory environment.

Compressed air, supplied from central distribution or an 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 remaining HC are 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.

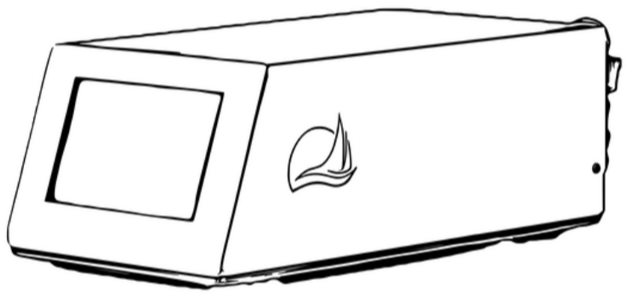
The software is focused on safety, automatic regulation, and reliable communications, so the AERO FTIR L Generator is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Purge gas for FTIR
- CO2-free Zero Air





FEATURES:

- Reduces in operation costs. Return on investment within 1 year.
- No maintenance or consumables.
- Improves resolution and detection limit. Provides high pressure stability.
- 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.
- Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- No handling, no storage, no cylinder rental fee.



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MODELS	AERO FTIR L-1.5 AERO FTIR L-3
LPM Outflow @1013 / 20°C	AERO FTIR L-1.5: 1.5 LPM AERO FTIR L-3: 3 LPM
AIR purity	<5ppm H2O · <1ppm CO2 · <0.25ppm HC · <0.25ppm CO and CH4 · particulates <0.01µm
Dew point	-60°C
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)
Dimensions cm / in	L: 43cm / l: 23.5cm / H: 16cm (17in / 9in / 6.2in)
Net weight (kg/lbs)	12kg / 26lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3
AIR pressure	Minimum 2 bar (29 psig) over outlet pressure · 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	Through Ethernet 10/100 network RJ45
Input & Output fittings	Stainless steel, respectively 1/4" and 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption	50W maximum at full flow
Ambient Temperature	+10 to +35°C