AERO FTIR LS

UHP Air Generator for FTIR Spectrometers

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the AERO FTIR LS product line of UHP Air Generators for FTIR spectrometers 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, 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 20 L/min air are available.

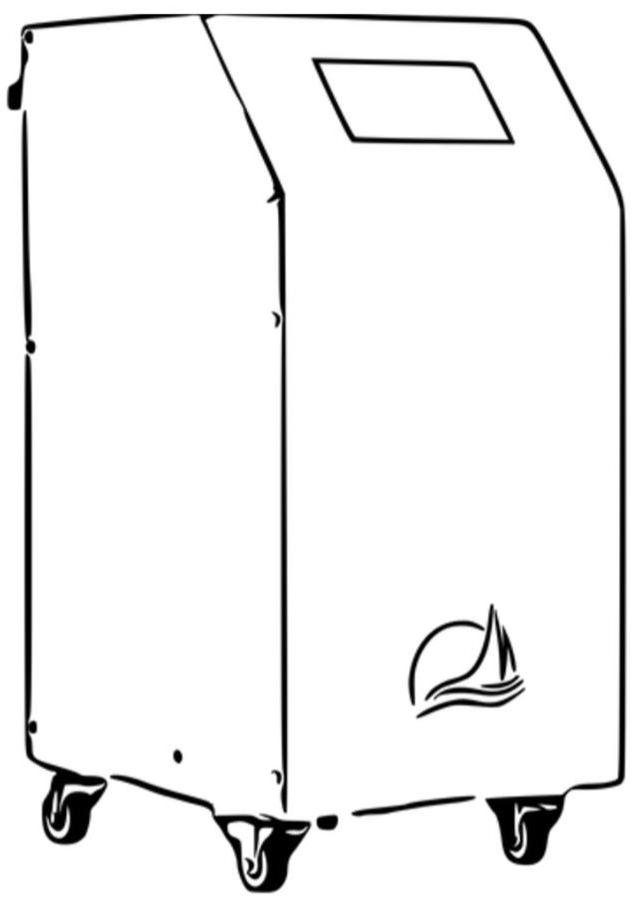
Each instrument has high-performance communication interfaces (Ethernet) to create a flexible gas network with local or central control.

The software is focused on safety, automatic regulation, and reliable communications, so the AERO FTIR LS 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 15 months.
- No maintenance or consumables.
- Improves resolution and detection limit. Provides high pressure stability.
- Silicone-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	AERO FTIR LS-20
LPM Outflow @1013 / 20°C	AERO FTIR LS-20: 20 LPM
AIR purity	<5ppm H2O · <1ppm CO2 · <0.25ppm HC · <0.25ppm CO and CH4 (optional hot-catalysis CH4 scrubber) · particulates <0.01µm
Dew point	-60°C
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)
Dimensions cm / in	L: 40.5cm / l: 32.5cm / H: 69cm (15.7in / 12.5in / 27.1in)
Net weight (kg/lbs)	45kg / 99lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3. Inlet pressure must be at least 2 bar above the AERO FTIR LS output pressure.
AIR pressure	Minimum 2 bar (29 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	Through Ethernet 10/100 network
Input & Output fittings	Stainless steel 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption	Maximum 350W
Ambient Temperature	+10 to +35°C