AERO FTIR LS2

High Flow UHP Air Generator for FTIR Spectrometers

Leman Instruments

DESCRIPTION:

Leman Instruments designed the AERO FTIR LS2 product line of UHP Air Generators for FTIR spectrometers to fit almost any type of application which needs a high flow of CO2- and moisture-free purge air in a laboratory environment.

Compressed Air, supplied by an external source, 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 and pressure is regulated electronically to the set value.

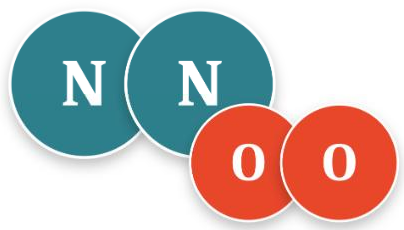
Models with outflows of 50, 100, 200, 300, 500 and 750 NL/min air are available.

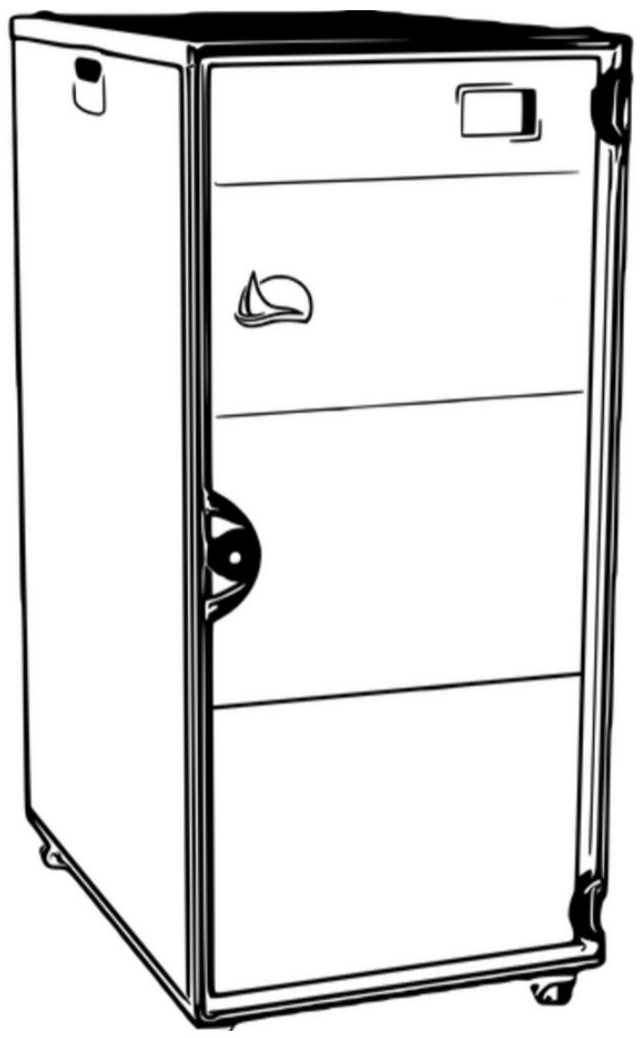
Each instrument is equipped with modern and high-performance communication interfaces RJ45 and USB as standard to create a very flexible gas network with local or central control.



APPLICATION TYPES:

- Purge gas for FTIR
- CO2-free Zero Air





FEATURES:

- Reduces operation costs. Return on investment within 1 year.
- UHP-Air available 24/7 at constant purity, improving resolution and detection limit.
- Independent source of Air. Needs only dry oil-free compressed Air supply and electricity.
- No handling, no storage, no cylinder rental fee, no maintenance or consumables.
- Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- Local and remote control via Ethernet RJ45, standard on every unit.

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MODELS	AERO FTIR LS2-50 AERO FTIR LS2-100 AERO FTIR LS2-200 AERO FTIR LS2-300 AERO FTIR LS2-500 AERO FTIR LS2-750
AIR Outflow @1013 / 20°C	LS-50: 50 L/min LS-100: 100 L/min LS-200: 200 L/min LS-300: 300 L/min LS-500: 500 L/min LS-750: 750 L/min
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, adjustable by software (7 to 100 psig)
Dimensions	LS-50 & -100: W55/H120/D60cm LS-200 & -300: W55/H220/D80cm LS-500 & -750: W110/H220/D80cm
Net weight (kg)	LS-50: 75 · LS-100: 85 · LS-200: 142 LS-300: 182 · LS-500: 325 · LS-750: 430

Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class 3
Input AIR Pressure	≥2 bar over set outlet pressure · 14 bar max
AIR consumption	Maximum ratio of 5. Air flow consumption for AIR flow generated.
Manual control	Through a 7" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub-menus.
Remote control	• RS485 or USB (Mod-Bus) • Through Ethernet 10/100 network
Inlet & outlet fittings	Inlet G1/2" · outlet steel 3/8" BNP
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	Maximum 150W