AERO70 LS2

High Flow Special Ultra Zero Air Generator

Leman Instruments

DESCRIPTION:

Leman Instruments designed the AERO70LS2 product line of Special Ultra Zero Air Generators to fit almost any type of application which needs a high flow of Ultra High Purity Air in a laboratory environment.

Dry and clean compressed Air, supplied by an external source, is first filtered from particulates down to 5µm and partially dried. It then passes through a hot catalytic chamber to remove CO, CH4, and HC. Based on the field-proven Smart Pressure Swing Adsorption (SPSA) technology, air passes through a set of filters filled with molecular sieve and activated charcoal to be dried and cleaned from the last traces of HC. After the purification process, air is filtered down to 0.01µm of remaining particulates and pressure is regulated electronically to the set value.

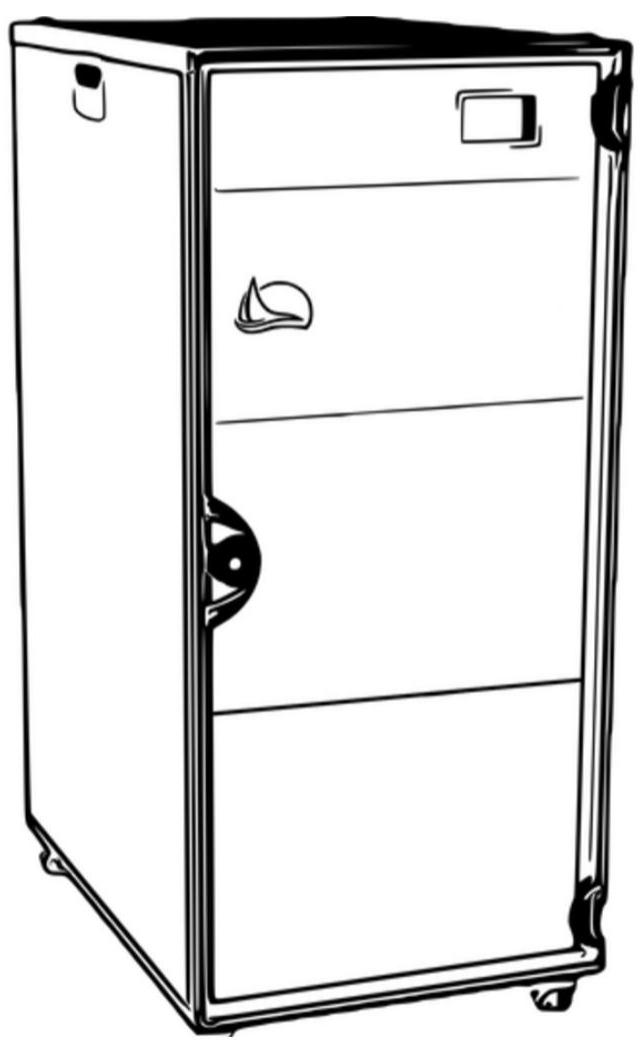
Models with outflows of 50, 100, 200, 300, 500 and 750 NL/min air are available.

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:

- Zero-air source for ambient air quality monitoring stations
- EPA reference-method analyzer calibration
- Central distribution to multiple THC, TOC, and BTX Analyzers
- Environmental chamber purge and dilution air
- Ultra-Low Detection Gas for any application



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	AERO70LS2-50 AERO70LS2-100 AERO70LS2-200 AERO70LS2-300 AERO70LS2-500 AERO70LS2-750
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	<10ppm H2O · <0.5ppm CO2 · <0.005ppm HC · <0.005ppm CO and CH4 · <2ppb NOx · <1ppb O3, SO2, NH3 · particulates <0.01µm
Dew point	-70°C
Outlet Pressure	From 0.5 to 5 bar, adjustable by software (7 to 72 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