

AERO50 LS

Ultra Zero AIR Generator to fit almost any application



DESCRIPTION:

LEMAN Instruments designed the AERO50LS product line of High-Flow Ultra-Zero Air Generators to fit almost any type of laboratory application that needs an independent ultra-pure and dry air source.

Compressed air is first filtered from particulates down to $5\mu\text{m}$ and partially dried. Then, it passes through a hot catalytic chamber to remove CO, CH₄, and HC. Based on the field-proven Pressure Swing Adsorption (PSA) 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 of remaining particulates down to $0.01\mu\text{m}$, and pressure is regulated to the set value, between 0.5 and 7 bar (7 to 102 psig).

Models with outflows of 20 NL/min AIR are available.

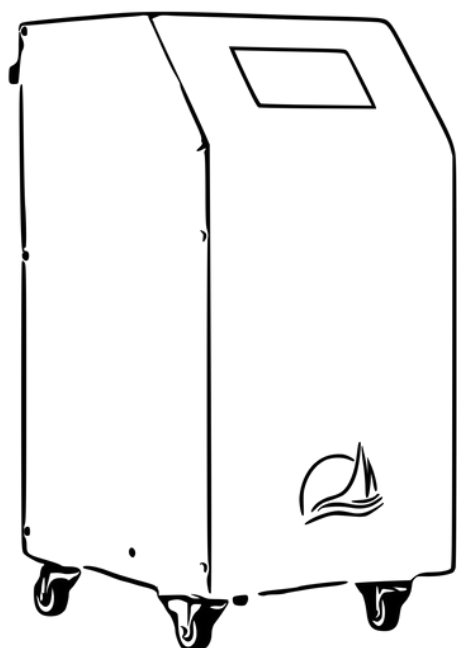
Each instrument has high-performance communication interfaces (Ethernet) to create a flexible gas network with local or central control.

The software's focus on safety, automatic regulation, and reliable communications makes the AERO50LS easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Combustion gas for FID & GC
- Zero gas for HC calibrators
- HC-free AIR for general purpose scientific experiments



FEATURES:

- Reduces in operation costs. Return on investment within 1.5 years.
- 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.
- Stackable casing for low-footprint gas generator network assembly.
- 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	AERO50 LS-20
LMP Outflow @1013 HPA / 20°C	AERO50 LS-20: 20 LPM
AIR purity	• < 10ppm H₂O • < 0.5 ppm HC • < 0.5 ppm CO and CH₄ • particulates <0.01µm
Dew point	< 10ppm
Outlet Pressure	0.5 – 7 bar (7 – 102 psig)

Dimensions cm / in	L: 40.5cm / I: 32.5cm / H: 69cm L: 15.7in / I: 12.5in / H: 27.1in
Net weight (kg/lbs)	45kg / 99lbs

Compressed AIR	Oil-free, dried compressed air according to DIN ISO 85/5-1 Class 3
AIR pressure	Minimum over-output pressure: 1.5 bar (15psig) Maximum: 10 bar
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, respectively 1/4" and 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 500W
Ambient Temperature	+10 to +40°C

