AERO50 LS

High-Flow Ultra Zero Air Generator

Leman Instruments

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 5µm 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 0.01µm, and pressure is regulated to the set value, between 0.5 and 7 bar (7 to 102 psig).

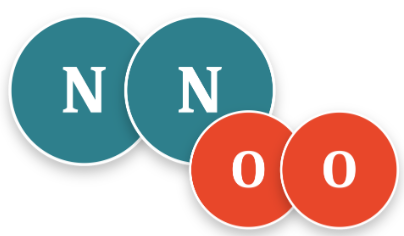
Models with outflows of 20 NL/min air are available.

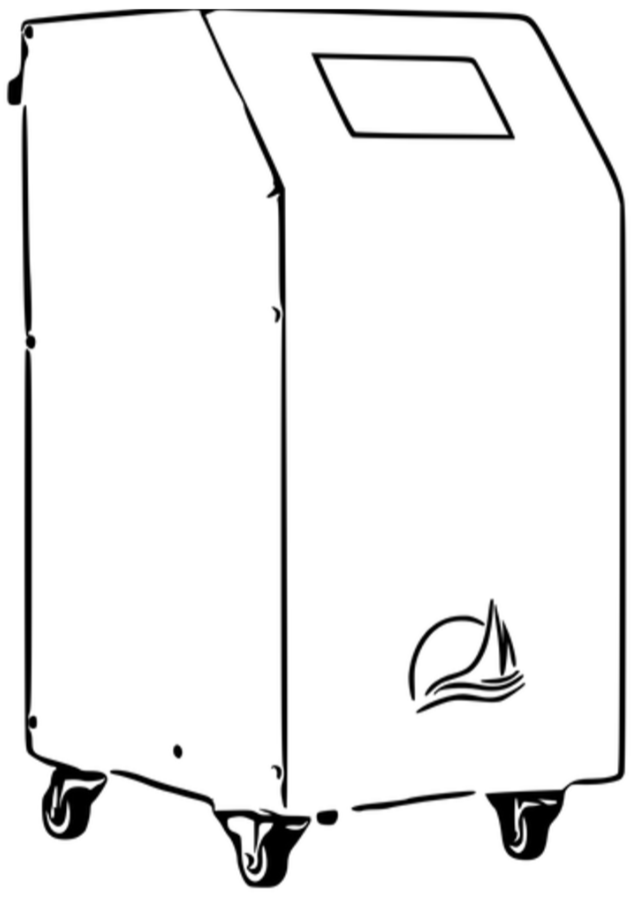
The software's focus on safety, automatic regulation, and reliable communications makes the AERO50LS easy to install, reliable, safe, and pleasant to operate.



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
LPM Outflow @1013 / 20°C	AERO50 LS-20: 20 LPM
AIR purity	<10ppm H2O · <0.5ppm HC · <0.5ppm CO and CH4 · particulates <0.01µm
Dew point	<10ppm H2O
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 1 bar above the AERO50LS output pressure.
AIR pressure	Minimum 1.5 bar (15 psig) over output pressure · 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	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	Maximum 500W
Ambient Temperature	+10 to +40°C