

AERO70 L

Ultra Zero AIR Generator to fit almost any application



DESCRIPTION:

LEMAN Instruments designed the AERO70L product line of Special Ultra-Zero Air Generators to fit almost any application that needs Ultra-High-Purity Air close to the consumer in the laboratory environment.

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 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 $0.01\mu\text{m}$ of remaining particulates, and pressure is regulated to the set value, between 0.5 and 5 bar (7 to 72 psig).

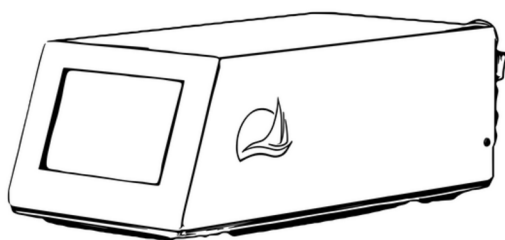
Models with outflow of 1.5 and 3 L/min AIR are available. Each instrument has high-performance communication interfaces, such as Ethernet (RJ45), to create a flexible gas network with local or central control.

The software is focused on safety, automatic regulation, and reliable communications, so the AERO70L Special Ultra Zero AIR Generator is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Combustion gas for FID & GC
- Zero gas for HC calibrators
- Carrier gas for permeation tube systems
- Ultra-Low Detection Gas for any application
- Burning gas, zero gas, and carrier gas for THC, TOC, and BTX Analyzers
- Purge gas for FTIR



FEATURES:

- Reduces in operation costs.
- Return on investment within 1 year.
- No maintenance or consumables
- 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.
- Remote control
- 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	AERO70 L-1.5 AERO70 L-3
LPM Outflow @1013 HPA / 20°C	AERO70 L-1.5: 1.5 LPM AERO70 L-3: 3LPM
AIR purity	• < 1ppm H2O • < 0.5 ppm CO2 • < 0.005 ppm HCnm • < 0.005 ppm CO and CH4 • < 2 ppb NOx • < 1 ppb O3, SO2, NH3 • particulates <0.01µm
Dew point	-70°C
Outlet Pressure	From 0.5 to 5 bar (7 to 72 psig)

Dimensions cm / in	L: 43cm / I: 23.5cm / H: 16cm L: 17in / I: 9in / H: 6.2in
Net weight (kg/lbs)	15kg/33lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3
AIR pressure	Minimum: 2 bar (30 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, Communications	Through Ethernet 10/100 network RJ45
Input & Output fittings	Stainless steel 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 450W
Ambient Temperature	+10 to +35 °C

