AERO70 L

Special Ultra Zero Air Generator

Leman Instruments

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 5µm 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 0.01µm 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.

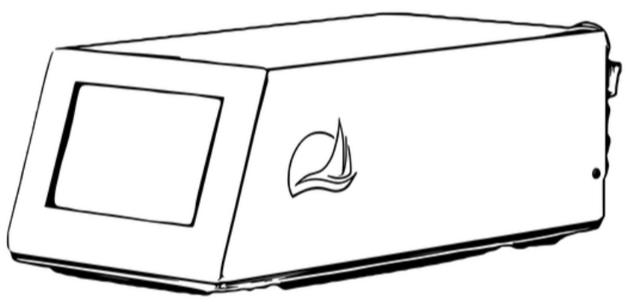
The software is focused on safety, automatic regulation, and reliable communications, so the AERO70L Special Ultra Zero Air Generator is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

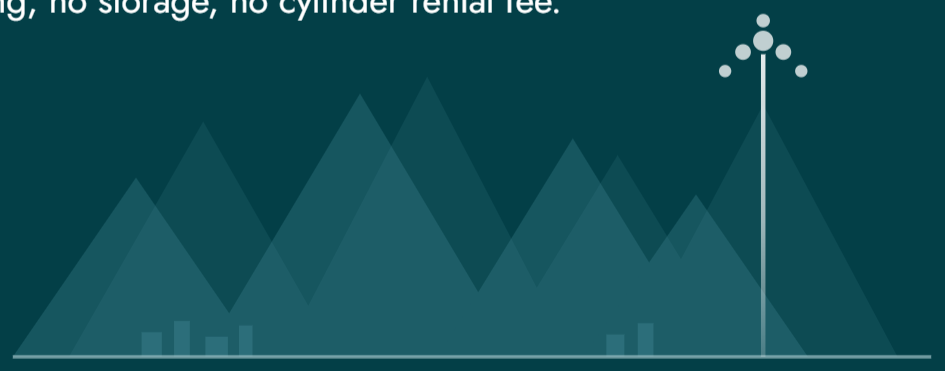
- Combustion, zero, and carrier gas for FID, GC, THC, TOC, and BTX Analyzers
- Carrier gas for permeation tube systems
- Purge gas for FTIR
- Ultra-Low Detection Gas for any application

N N O O



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 / 20°C	AERO70 L-1.5: 1.5 LPM AERO70 L-3: 3 LPM
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 (7 to 72 psig)
Dimensions cm / in	L: 43cm / l: 23.5cm / H: 16cm (17in / 9in / 6.2in)
Net weight (kg/lbs)	15kg / 33lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3. Inlet pressure must be at least 2 bar above the AERO70L output pressure.
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	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	Maximum 450W
Ambient Temperature	+10 to +35°C