AERO50 L

Ultra Zero Air Generator

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the AERO50L product line of 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 7 bar (7 to 102 psig).

Models with outflow of 1.5 and 3 L/min air are available.

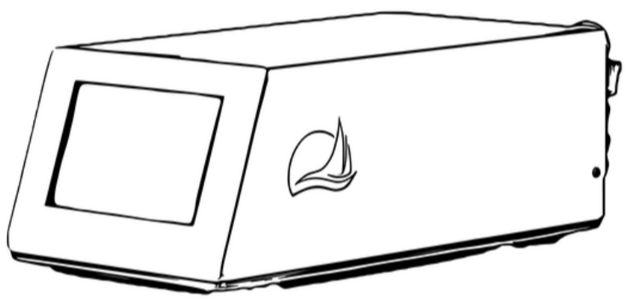
Due to the software being focused on safety, automatic regulation, and reliable communications, the AERO50L Ultra Zero Air Generator is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Combustion gas for Gas Chromatographs
- Zero gas for AQM calibrators
- Carrier gas for permeation tube systems

N N O O



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.
- Remote control.
- Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- No handling, no storage, no cylinder rental fee.



AERO50 L

Ultra Zero Air Generator

Leman Instruments

MODELS	AERO50 L-1.5 AERO50 L-3
LPM Outflow @1013 / 20°C	AERO50 L-1.5: 1.5 LPM AERO50 L-3: 3 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: 43cm / l: 23.5cm / H: 16cm (17in / 9in / 6.2in)
Net weight (kg/lbs)	12kg / 26lbs

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 AERO50L output pressure.
AIR pressure	Minimum 1.5 bar (20 psig) · maximum 11 bar (159 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.
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
Ambient Temperature	+10 to +40°C