



Leman Instruments
SWISS TECHNOLOGY

AERO50L2 – ULTRA ZERO AIR GENERATOR



AIR

APPLICATIONS

- ✓ Combustion gas for FID & GC
- ✓ Zero gas for HC calibrators
- ✓ Carrier gas for permeation tube systems

DESCRIPTION

LEMAN-INSTRUMENTS designed the **AERO50L2** product line of **Zero AIR Generators**, to fit almost any type of application which needs high purity AIR close to the consumer in laboratory environment, without trouble of regular maintenance.

Compressed Air, supplied from central distribution or from the external Air compressor, is first filtered from CO, CH₄ and HC; then based on the field proven Pressure Swing Adsorption (PSA) technology, CO₂, moisture and remaining HC are removed. After the purification process, UHP Air is filtered of remaining particulates down to 0.1µm and pressure is regulated electronically to the set value, between 0.5 and 5bar.

Models with outflows of **20, 30 NI/min** ZERO AIR are available.

Each instrument is equipped with high performance communication interfaces (RS485, USB, Ethernet, WLAN) to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation and reliable communications, the **AERO50L2 Zero Air Generators** are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs.
Return on investment within 1 year.
- ✓ NO maintenance.
- ✓ Improves resolution and detection limit.
Provides High pressure stability.
- ✓ AIR available 24/7 at constant purity.
No contamination.
- ✓ Independent source of High Purity AIR.
Needs only dry oil-free compressed Air supply and electricity. Can be easily moved around the laboratory.
- ✓ Remote control from PC, I-phone, Tablett and Internet.
- ✓ 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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SPECIFICATIONS

Models	AERO50L2-20, AERO50L2-30
AIR Outflow @ 1013/20°C	AERO50L2-20 = 20 L/min ; AERO50L2-30 = 30 L/min
Output AIR purity	<ul style="list-style-type: none">▪ < 10ppm H₂O (<-60°C DP)▪ < 50 ppb HC▪ < 50 ppb CO and CH₄▪ particulates <0.1µm
Output Pressure	From 0.5 to 5 bar, adjustable by software. (7 to 72psig)
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
Input AIR Pressure	1 bar(15 psig) minimum over output pressure. Maximum 8 bar
Manual control	Through a 4.3" TFT-LCD color display with touch screen, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control, Communications	<ul style="list-style-type: none">■ USB. RS485 (Mod-Bus) or Display.■ Trough Ethernet 10/100 network■ Trough WLAN network, with PC, I-Phone, tablet (option)■ Log book download by USB.
Inlet & outlet fittings	Stainless steel 1/4" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	AERO50L2-20: max. 300W; AERO50L2-30 max. 500W
Ambient temperature	+5 to +40°C, non condensing.
Dimensions	W=23cm, H=60cm, D=50cm
Weight (net)	AERO50L2-20&30 :40Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
AERO50L2-20	734311

Model	Article #
AERO50L2-30	734312

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