



Leman Instruments

AERO40L – 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 **AERO40L** 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 is first filtered from particulates down to $5\mu\text{m}$ and dried; then passes throughout a hot catalytic chamber to remove CO, CH₄ and HC.

After the purification process, Air is filtered of remaining particulates down to $0.01\mu\text{m}$ and pressure is regulated to the set value, between 0.5 and 10 bar. (7 to 140 psig).

Models with outflows of **1.5, 3, 6, 10L/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 **AERO40L 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.
- ✓ Stackable casing for low footprint gas generator network assembly..
- ✓ Remote control from PC, I-phone and I-pad.
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.

AERO40L- ZERO AIR GENERATOR

SPECIFICATIONS

Models	AERO40L-1.5, AERO40L-3, AERO40L-6, AERO40L-10
AIR Outflow @ 1013/20°C	AERO40L-1.5 = 1.5 L/min ; AERO40L-3 = 3 L/min; AERO40L-6 = 6 L/min AERO40L-10 = 10 L/min
Output AIR purity	<ul style="list-style-type: none"> ▪ < 400ppm H₂O (<-30°C DP / -28°F DP), if input Air is according ISO8573-1/3 ▪ < 0.05 ppm HC ▪ < 0.05 ppm CO and CH₄ ▪ particulates <0.01µm
Output Pressure	Adjustable from 0.5 to 10 bar. (7 to 140psig)
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 11 bar (160psig)
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	AERO40L-1.5 to AERO40L-6 : Stainless steel 1/8" compression AERO40L-10: Stainless steel 1/4" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	AERO40L-1.5 to -6 : max. 300W; AERO40L-10 to -20 : max. 500W
Ambient temperature	+5 to +40°C, non condensing.
Dimensions	W=230mm/8.8ins, H=135mm/5.3ins, D=380mm/14.9ins , stackable
Weight (net)	AERO40L-1.5 to -6x :9Kg (20lbs), AERO40R-10:10.5Kg (23lbs)
Certification	CE

ORDERING NUMBERS

Model	Article #
AERO40L-1.5	734101
AERO40L-3	734102
AERO40L-6	734103

Model	Article #
AERO40L-10	734105
AERO40L-20	734107

LEMAN - INSTRUMENTS SAS

Archamps Technopole, 60 Avenue Marie-Curie
F – 74160 ARCHAMPS

info@leman-instruments.com

Telephone: +33 4 50 39 49 22

www.leman-instruments.com