



Leman Instruments
SWISS TECHNOLOGY

AERO40LS – 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 **AERO40LS** 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 then passes throughout a hot catalytic chamber to remove CO, CH₄ and HC.

After the purification process, Zero Air is stored in a 5 L buffer and filtered of remaining particulates down to $0.01\mu\text{m}$. Pressure is regulated to the set value, between 0.5 and 10 bar. (7 to 140 psig).

Models with outflows of **40, 80, and 120 L/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 **AERO40LS** 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.

AERO40LS - ZERO AIR GENERATOR

SPECIFICATIONS

Models	AERO40LS-40, AERO40LS-80, AERO40LS-120
AIR Outflow @ 1013/20°C	AERO40LS-40 = 40 L/min ; AERO40LS-80 = 80 L/min; AERO40LS-120=120 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 (option) ■ 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	AERO40LS-40: max. 300W; AERO40LS-80 and -120 : max. 500W
Ambient temperature	+5 to +40°C, non condensing.
Dimensions	W=60cm/23.6ins, H=81cm/32ins, D=80cm/31.5ins ,
Weight (net)	AERO40LS-40 : 95Kg, AERO40LS-80 & 120 : 120Kg
Certification	CE

ORDERING NUMBERS

Model	Article #	Model	Article #
AERO40LS-40	734123	AERO40LS-120	734125
AERO40LS-80	734124		

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