



# Leman Instruments

SWISS TECHNOLOGY

## AERO50LS – HIGH FLOW ULTRA ZERO AIR GENERATOR



# AIR

### APPLICATIONS

- ✓ Combustion gas for FID & GC
- ✓ Zero gas for HC calibrators
- ✓ HC free AIR for general purpose scientific experiments

### DESCRIPTION

Leman-Instruments designed the **AERO50LS** product line of **High Flow Ultra Zero AIR generator**, to fit almost any type of application which needs an independent **ultra pure and dry AIR** source in laboratory.

Pre conditioned compressed Air is provided by external oil-free compressor. Based on the field proven Pressure Swing Adsorption (PSA) technology, compressed Air is first dried and filtered from pollutant gases and then passes throughout a hot catalytic chamber to remove CO, CH<sub>4</sub> and HC. Remaining traces of HC and moisture are removed by passive filters. After the purification process, Air is stored in a 5L tank and filtered of remaining particulates down to 0.1µm. Outlet pressure is regulated electronically to the set value, between 1 and 7 bar.(14 to 100 psig). The AERO50LS line is equipped with an Economy function which stops the PSA module when Ultra Zero Air consumption is reduced or stopped.

Models with outflows of **40, 80 and 120 NL/min AIR** are available.

Each instrument is equipped with high performance communication interfaces USB and RS485, (Ethernet, WLAN as options) 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 **AERO50LS** are easy to install, reliable, safe and pleasant to operate.

### BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15 months. Integrated Economy function.
- ✓ Improves resolution and detection limit.
- ✓ AIR available 24/7 at constant purity. No contamination.
- ✓ Independent source of High Purity AIR.
- ✓ Low functioning noise
- ✓ Remote control from PC, I-phone and I-pad.(options) and Internet
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.

# HIGH FLOW ULTRA ZERO AIR GENERATOR

## SPECIFICATIONS

<b>Models</b>	<b>AERO50LS-40, AERO50LS-80, AERO50LS-120</b>
AIR Outflow @ 1013/20°C	AERO50LS-40 = 40 L/min ; AERO50LS-80 = 80 L/min ; AERO50LS-120 = 120 L/min
Output AIR purity	<ul style="list-style-type: none"><li>▪ &lt; 10ppm H<sub>2</sub>O (&lt;-60°C DP)</li><li>▪ &lt; 50 ppb HC</li><li>▪ &lt; 50 ppb CO and CH<sub>4</sub></li><li>▪ particulates &lt;0.1µm</li></ul>
Output Pressure	From 1 to 7 bar, adjustable by software. (15 to 100psig)
Input compressed AIR	Supplied by external source, dried and oil free according to DIN ISO8578-3
Manual control	Through a 4.3" TFT-LCD color display with touchscreen, 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"><li>■ USB, RS485 (Mod-Bus) or Display</li><li>■ Trough Ethernet 10/100 network or WLAN (option)</li><li>■ Log book download by USB.</li></ul>
Outlet fitting	Stainless steel 1/4" compression
Power supply	90 to 240VAC, 47 to 63 Hz
Power consumption	max 500W
Dimensions	W=60cm, H=81cm, D=160cm for AERO50LS-120
Weight (net)	AERO50LS-40 and 80 : 80Kg, AERO50LS-120 : 160Kg
Certification	CE

## ORDERING NUMBERS

<b>Model</b>	<b>Article #</b>
AERO50LS-40	754333
AERO50LS-80	754335
AERO50LS-120	754337

<b>Model</b>	<b>Article #</b>
30L External Buffer	754362
50L External Buffer	754364

### LEMAN - INSTRUMENTS SAS

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

[info@leman-instruments.com](mailto:info@leman-instruments.com)

Telephone: +33 4 50 39 49 22

[www.leman-instruments.com](http://www.leman-instruments.com)