



Leman Instruments

AERO60LS – SPECIAL ULTRA ZERO AIR GENERATOR



AIR

APPLICATIONS

- ✓ **Special life science experiments**
- ✓ **Ultra low level GC detection**

DESCRIPTION

LEMAN-Instruments designed the **AERO60LS** product line of **Special Ultra Zero AIR Generator**, to fit almost any type of application which needs a **high flow of very pure AIR** in laboratory environment.

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, CH₄ and HC. The final traces of moisture and CO₂ are removed by passive absorbing columns.

After the purification process, Air is filtered of remaining particulates down to 0.1µm and pressure is regulated electronically to the set value, between 0.5 and 6 bar.(7 to 87 psig).

Models with outflows of **40, 80, 100 and 120 L/min AIR** are available.

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

Due to the softwares being focused on safety, automatic regulation and reliable communications, the **LEMAN-Instruments AERO60LS Special Ultra Zero Air Generator** are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs.
Return on investment within 24 months.
- ✓ Improves resolution and detection limit.
- ✓ AIR available 24/7 at constant purity.
No contamination.
- ✓ Independent source of Very High Purity AIR. Needs only dry oil-free compressed Air supply and electricity. Can be easily moved around the laboratory.
- ✓ Low functioning noise (< 47dBA)
- ✓ Remote control from PC, I-phone and I-pad.(options)
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.

AERO60LS SPECIAL ULTRA ZERO AIR GENERATOR

SPECIFICATIONS

Models	AERO60LS-40, AERO60LS-80, AERO60LS-100, AERO60LS-120
AIR Outflow @ 1013/20°C	AERO60LS-40 = 40 L/min ; AERO60LS-80 = 80 L/min ; AERO60LS-100 = 100 L/min ; ; AERO60LS-120 = 120 L/min
Output AIR purity	<ul style="list-style-type: none">▪ < 2 ppm H₂O (-70°C DP/-95°F DP)▪ < 0.5 ppm CO₂▪ < 0.01 ppm HCnm▪ < 0.03 ppm CO and CH₄▪ < 2 ppb NO_x▪ < 1 ppb O₃, SO₂, NH₃▪ particulates <0.1µm
Output Pressure	From 0.5 to 6 bar, adjustable by software. (7 to 87psig)
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
Input AIR Pressure	2 bar(30 psig) minimum over output pressure. Maximum 10 bar (145psig)
Manual control	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, pressure, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control	<ul style="list-style-type: none">■ RS485 (Mod-Bus), USB.■ Trough Ethernet 10/100 network■ Trough WLAN network, with PC, I-Phone, I-Pad (option)■ Log book download by USB.
Inlet & outlet fittings	AERO60LS-xx0 : Stainless steel 3/8" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	AERO60LS-40 : max. 500W; AERO60LS-80 : max. 1000W;
Dimensions	W=60cm/23.6ins, H=112cm/44ins, D=80cm/31.5ins
Weight (net)	AERO60LS-40: 80Kg, AERO60LS-80:125Kg, AERO60LS-100 & 120 : 200Kg
Certification	CE, UL

ORDERING NUMBERS

Model	Article #
AERO60LS-40	754401
AERO60LS-80	754402

Model	Article #
AERO60LS-100	754403
AERO60LS-120	754404

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