

AERO50L – ULTRA ZERO AIR GENERATOR MODULES



AIR

APPLICATIONS

- ✓ Carrier gas for FID Analyzers
- ✓ Zero gas for THC, TOC Analyzers
- ✓ Nebulization gas for ELSD, CAD
- ✓ Carrier gas for calibrators

DESCRIPTION

PEUS-Instruments designed the **AERO50R** product line of **Ultra Zero AIR Generator** modules, to fit almost any type of application which needs very high purity AIR close to the consumer in the 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.

After the purification process, Air is filtered of remaining particulates down to 0.01µm and pressure is regulated electronically to the set value, between 0.5 and 7 bar. (7 to 102 psig).

Models with outflows of **1.5, 3 and 6 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 **PEUS-Instruments AERO50L Ultra Zero Air Generator** modules are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs.
Return on investment within 2 years.
- ✓ Improves resolution and detection limit. Provides High pressure stability.
- ✓ 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.
- ✓ 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. Internal maintenance free.





ULTRA ZERO AIR GENERATOR MODULES

CHARACTERISTICS

Models	AERO50L-1.5, AERO50L-3, AERO50L-6.
AIR Outflow @ 1013/20°C	AERO50L-1.5 = 1.5 L/min ; AERO50L-3 = 3 L/min AERO50L-6 = 6 L/min
Output AIR purity	<ul style="list-style-type: none"> ▪ < 50 ppm H₂O (-50°C DP/-60°F DP) ▪ < 5 ppm CO₂ ▪ < 0.05 ppm HC ▪ < 0.05 ppm CO and CH₄ ▪ < 20 ppb NO_x ▪ < 1 ppb O₃, SO₂, NH₃ ▪ particulates <0.01µm
Output Pressure	From 0.5 to 7 bar, adjustable by software. (7 to 102psig)
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
Input AIR Pressure	1.5 bar(20 psig) minimum over outlet pressure. Maximum 10 bar (145psig)
Manual control	ON-OFF power switch
Remote control	<ul style="list-style-type: none"> ■ By PEUS-Instruments Gas Network Controller, (communication by RS485), maximum distance to module : 100m ■ Through 2 potential free relay contacts (I/O), ■ RS485 (Mod-Bus), USB. ■ Trough Ethernet 10/100 network (option) ■ Trough WLAN network, with PC, I-Phone, I-Pad (option) ■ Log book download by USB.
Input and output fittings	Stainless steel 1/8" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	AERO50L-x : maximum 300W
Dimensions	W=210mm/8.3ins, H=135mm/5.3ins, D=360mm/14.2ins , stackable
Weight (net)	AERO50L-x :13.5Kg (29.7lbs)
Certification	CE, UL

ORDERING NUMBERS

Model	Article #
AERO50L-1.5	734201
AERO50L-3	734202
WLAN Interface option	734281

Model	Article #
AERO50L-6	734204
Ethernet Interface option	714282

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