

AERO40L – ZERO AIR GENERATOR MODULES



AIR

APPLICATIONS

- ✓ Combustion gas for GC
- ✓ Zero gas for HC calibrators
- ✓ Carrier gas for permeation tube systems

DESCRIPTION

PEUS-Instruments designed the **AERO40L** product line of **Zero AIR Generator** modules, 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 μ 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 μ m and pressure is regulated to the set value, between 0.5 and 7 bar.(7 to 102 psig).

Models with outflows of **1.5, 3, 6, 10 and 20** 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 software being focused on safety, automatic regulation and reliable communications, the **PEUS-Instruments AERO40L Zero Air Generator** modules 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.





ZERO AIR GENERATOR MODULES

SPECIFICATIONS

| | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Models | AERO40L-1.5, AERO40L-3, AERO40L-6, AERO40L-10, AERO40L-20 |
| 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 ; AERO40L-20 = 20 L/min. |
| Output AIR purity | <ul style="list-style-type: none"> ▪ < 400ppm H₂O (<-30°C DP / -28°F DP), if input Air according ISO8573-1/3 ▪ < 0.05 ppm HC ▪ < 0.05 ppm CO and CH₄ ▪ particulates <0.01µm |
| Output Pressure | Adjustable from 0.5 to 8 bar. (7 to 116psig) |
| 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 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. |
| Inlet & outlet fittings | AERO40L-1.5 to AERO40L-6 : Stainless steel 1/8" compression AERO40L-10 and AERO40L-20 : 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 |
| Dimensions | W=220mm/8.8ins, H=135mm/5.3ins, D=380mm/14.9ins , stackable |
| Weight (net) | AERO40L-1.5 to -6x :9Kg (20lbs), AERO40R-10 to -20x :10.5Kg (23lbs) |
| Certification | CE |

ORDERING NUMBERS

| Model | Article # |
|-----------------------|-----------|
| AERO40L-1.5 | 734101 |
| AERO40L-3 | 734102 |
| AERO40L-6 | 734103 |
| WLAN Interface option | 734181 |

| Model | Article # |
|---------------------------|-----------|
| AERO40L-10 | 734105 |
| AERO40L-20 | 734107 |
| Ethernet Interface option | 734182 |

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