



Leman Instruments

AEROSTATION 50RC – ZERO AIR GENERATOR WITH ON BOARD COMPRESSOR



AIR

APPLICATIONS

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

DESCRIPTION

LEMAN-Instruments designed the **AEROSTATION 50RC** product line of **Zero AIR Generator with on board compressor**, to fit almost any type of application which needs independent supply of high purity AIR close to the consumer in an elegant 19" casing with full color display and touchpad.

Compressed Air is first filtered from particulates down to 5µm and partially dried; then passes throughout a hot catalytic chamber to remove CO, CH₄ and HC. Based on the field proven Pressure Swing Adsorption (PSA) technology, AIR passes through a set of filters filled up with molecular sieve and activated charcoal, to be dried and cleaned from the last traces of HC.

After the purification process, Air is filtered of remaining particulates down to 0.1µm and pressure is regulated to the set value, between 0.5 and 5 bar (7 to 70 psig).

Models with outflows of **1.5**, and **3L/min** AIR are available.

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

Due to the software being focused on safety, automatic regulation and intuitive and reliable communications, the **AEROSTATION 50RC** are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15months.
- ✓ Improves resolution and detection limit. Provides High pressure stability.
- ✓ ZERO AIR available 24/7 at constant purity. No contamination.
- ✓ Independent source of High Purity AIR. Does not require any piping. Can be easily moved around the laboratory.
- ✓ Low noise compressor < 55dB(A)).
- ✓ Long life compressor with power economy function.
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.

AEROSTATION 50RC

SPECIFICATIONS

Models	AEROSTATION 50RC-1.5, AEROSTATION 50RC-3
AIR Outflow @ 1013/20°C	AEROSTATION 50RC-1.5 = 1.5 L/min ; AERO STATION 50RC-3 = 3 L/min
Output AIR purity	<ul style="list-style-type: none">▪ < 10ppm H₂O (<-60°C DP)▪ < 50 ppb HC▪ < 50 ppb CO and CH₄▪ particulates <0.1µm
Output Pressure	Adjustable from 0.5 to 5 bar. (7 to 72psig)
Compressed AIR	Supplied by internal oil free compressor
Manual control	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control	<ul style="list-style-type: none">■ Through 2 potential free relay contacts (I/O),■ USB. RS485 (Mod-Bus) or Display■ Trough Ethernet 10/100 network■ Log book download by USB.
Sound pressure	< 55 dB(A), measured at 1m
Ambient Temperature	+10 to +35°C
Inlet/Outlet fittings	Stainless steel 1/4" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	AERO STATION 50RC-x : max. 450W
Dimensions	W=483mm/19ins, H=132mm/5.2ins (3U), D=520mm/21ins
Weight (net)	AEROSTATION 50RC-x :16Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
AEROSTATION50RC-3	724211

Model	Article #
AEROSTATION50RC-1.5	724210

LEMAN - INSTRUMENTS SAS

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

info@leman-instruments.com

Telephone: +33 4 50 39 49 22

www.leman-instruments.com