



Leman Instruments

AERO STATION 50RC2 – HIGH FLOW ZERO AIR GENERATOR



AIR

APPLICATIONS

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

DESCRIPTION

LEMAN-Instruments designed the **AEROSTATION 50RC2** product line of **HIGH FLOW ZERO AIR Generator**, to fit almost any type of application which needs independent supply of high flow high purity AIR close to the consumer in an elegant 19" casing with full color display and touchpad.

Compressed Air, issued from network or a compressor, 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 0.1 µm and pressure is regulated to the set value, between 0.5 and 5 bar.

Models with outflows of **10, 15 and 20L/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 50RC2** 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 < 48dB(A)(No compressor).
- ✓ 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 50RC2

SPECIFICATIONS

Models	AEROSTATION 50RC2-10, AEROSTATION 50RC2-15, AEROSTATION 50RC2-20
AIR Outflow @ 1013/20°C	AEROSTATION 50RC2-10 = 10 L/min ; AERO STATION 50RC2-15 = 15 L/min AERO STATION 50RC2-20 = 20 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.
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
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■ Through Ethernet 10/100 network■ Log book download by USB.
Sound pressure	< 57 dB(A), measured at 1m
Ambient Temperature	+10 to +35°C
Inlet/Outlet fittings	Stainless steel 1/4" compression
Power supply	90-115VAC/50-60Hz or 230VAC/50-60Hz
Power consumption	AERO STATION 50RC2-x : max. 650W
Dimensions	W=483mm, H=177mm (4U), D=550mm
Weight (net)	AEROSTATION 50RC2-x :36Kg with compressor
Certification	CE

ORDERING NUMBERS

Model	Article #
AEROSTATION50RC2-10	724221
AEROSTATION50RC2-15	724222
AEROSTATION50RC2-20	724224

Model	Article #
RS485 Interface (option)	724280
Ethernet Interface (option)	724281
4.3" Display with touchpad (Option)	724289

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