



Leman Instruments

AERO50R TOC – UHP AIR FOR TOC / FTIR ANALYZERS



AIR

APPLICATIONS

- ✓ Burning gas, Zero gas and carrier gas for THC, TOC, BTX Analyzers
- ✓ Purge gas for FTIR

DESCRIPTION

LEMAN-Instruments designed the **AERO50R TOC** product line of **UHP AIR Generator for TOC/THC/FTIR analyzers with compressor**, to fit almost any application which needs on demand independent supply of Ultra High Purity AIR close to the consumer in the laboratory environment.

Compressed Air, issued from the internal Silicon and oil free compressor, is first filtered from CO, CH₄ and HC by passing throughout a hot catalytic chamber; then based on the field proven Pressure Swing Adsorption (PSA) technology, CO₂ and moisture are removed. After the purification process, UHP Air is filtered of remaining particulates down to 0.1µm and pressure is regulated electronically to the set value, between 0.5 and 5bar.

Models with outflows of **1.5, 3 and 5 L/min AIR** are available.

Each instrument is equipped with high performance communication interfaces RS485 and USB, (Ethernet, WLAN as options) 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 **AERO 50R TOC UHP AIR station for TOC/THC/FTIR** are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ NO maintenance.
- ✓ Improves resolution and detection limit. Provides High pressure stability.
- ✓ Silicon free AIR
- ✓ UHP-AIR available 24/7 at constant purity. No contamination.
- ✓ Independent source of Ultra High Purity AIR. Does not require any piping. Can be easily moved around the laboratory.
- ✓ Remote control from PC, I-phone and I-pad.
- ✓ Long life compressor with power economy function.
- ✓ No handling, No storage, No cylinder rental fee.

AERO50R TOC

SPECIFICATIONS

Models	AERO50R TOC-1, AERO50R TOC-3, AERO50R TOC-5
AIR Outflow @ 1013/20°C	AERO50R TOC-1 = 1 L/min ; AERO50R TOC-3 = 3 L/min; AERO50R TOC-5 = 5 L/min;
Output AIR purity	<ul style="list-style-type: none">▪ < 5 ppm H₂O (-65°C DP)▪ < 1 ppm CO₂▪ < 0.05 ppm HC▪ < 0.05 ppm CO and CH₄▪ particulates <0.1µm
Output Pressure	From 0.5 to 5 bar, adjustable by software.
AIR supply	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, Communications	<ul style="list-style-type: none">■ USB. RS485 (Mod-Bus) or Display■ Trough Ethernet 10/100 network or WLAN (option)■ Log book download by USB.
Sound pressure	< 50 dB(A), measured at 1m
Ambient Temperature	+10 to +35°C
Output fitting	Stainless steel, 1/8" compression
Power supply	From 90VAC 120VAC and from 210 to 260VAC, 47 to 63 Hz
Power consumption	AERO50R TOC-x : maximum 700W
Dimensions	W=483mm/19ins, H=132mm/5.2ins (3U), D=520mm/21ins
Weight (net)	AERO50R TOC-x : 35Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
AERO50R TOC-1	724301
AERO50R TOC-3	724302

Model	Article #
AERO50R TOC-5	724303

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