Leman Instruments

AERO50LTOC – UHP AIR FOR TOC / FTIR ANALYZER

AIR

APPLICATIONS

✓ **Burning gas, Zero gas and carrier gas for THC,TOC, BTX Analyzers**

✓ **Purge gas for FTIR**

DESCRIPTION

LEMAN-Instruments designed the **AERO50LTOC** product line of **UHP AIR Generator for TOC/THC** analyzers, to fit almost any application which needs Ultra High Purity AIR close to the consumer in the laboratory environment.

Compressed Air, supplied from central distribution or from the external Air compressor, is first filtered from CO, CH4 and HC ; then based on the field proven Pressure Swing Adsorbtion (PSA) technology, CO2, moisture and remaining HC 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 & 5** L/min AIR are available.

Each instrument is equipped with high performance com-munication interfaces RS485, 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 **AERO50LTOC UHP AIR Generator for TOC** are easy to install, reliable, safe and pleasant to operate.

BENEFITS

✓ Reduces in operation costs. Return on investment within 1.5 year.

✓ NO maintenance.

✓ Improves resolution and detection limit. Provides High pressure stability.

✓ UHP-AIR available 24/7 at constant purity. No contamination.

✓ Independent source of Ultra 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.

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ULTRA HIGH PURITY AIR FOR TOC / FTIR ANALYZER

SPECIFICATIONS

Models	AERO50LTOC-1.5, AERO50LTOC-3, AERO50LTOC-5
AIR Outflow @ 1013/20°C	AERO50LTOC-1.5 = 1.5 L/min ; AERO50LTOC-3 = 3 L/min AERO50LTOC-5 = 5 L/min
Output AIR purity	▪ < 5 ppm H_2O (-65°C DP) ▪ < 1 ppm CO_2 ▪ < 0.05 ppm HC ▪ < 0.05 ppm CO and CH_4 ▪ particulates <0.1µm
Output Pressure	From 0.5 to 5 bar, adjustable by software. (7 to 72psig)
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	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, pressure, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control	■ USB. RS485 (Mod-Bus) or Display.. ■ Trough Ethernet 10/100 network ■ Trough WLAN network, with PC, I-Phone, I-Pad (option) ■ Log book download by USB.
Input and output fittings	Stainless steel, respectively ¼" and 1/8" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	AERO50LTOC-x : maximum 400W
Dimensions	W=230mm/9.1ins, H=275mm/10.8ins, D=360mm/14.2ins
Weight (net)	AERO50LTOC-x :25Kg (55lbs)
Certification	CE

ORDERING NUMBERS

Model	Article #
AERO50LTOC-1.5	734301
AERO50LTOC-3	734302

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AERO50LTOC-5	734303