



## AERO STATION 50LC TOC – UHP AIR FOR TOC / FTIR ANALYZERS WITH ON BOARD COMPRESSOR



# AIR

### APPLICATIONS

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

### DESCRIPTION

**PEUS-Instruments** designed the **AERO STATION 50LC TOC** product line of **UHP AIR Generator for TOC/THC/FTIR analyzers with compressor**, to fit almost any application which needs independent supply of Ultra High Purity AIR ( **<1ppm CO<sub>2</sub>, < 0.05ppm HC, -70° Dew point** ), close to the consumer in the laboratory environment.

Compressed Air, issued from the internal Silicon and oil free compressor, is first filtered from CO, CH<sub>4</sub> and HC by passing throughout a hot catalytic chamber; then based on the field proven Pressure Swing Adsorption (PSA) technology, CO<sub>2</sub> 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, 2.0 and 3.0 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 **AERO STATION 50LC 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.
- ✓ Low noise compressor < 58dB(A)).
- ✓ Long life compressor with power economy function.
- ✓ No handling, No storage, No cylinder rental fee.

# AERO STATION 50LC TOC

## SPECIFICATIONS

<b>Models</b>	<b>AERO STATION 50LC TOC-1.5, AERO STATION 50LC TOC-2 and AERO STATION 50LC TOC-3.</b>
AIR Outflow @ 1013/20°C	AEROSTATION 50LC TOC-1.5 = 1.5 L/min ; AERO STATION 50LC TOC-2 = 2 L/min; AERO STATION 50LC TOC-3 = 3 L/min;
Output AIR purity	<ul style="list-style-type: none"> <li>▪ &lt; 5 ppm H<sub>2</sub>O (-70°C DP)</li> <li>▪ &lt; 1 ppm CO<sub>2</sub></li> <li>▪ &lt; 0.05 ppm HC</li> <li>▪ Silicon free</li> <li>▪ &lt; 0.05 ppm CO and CH<sub>4</sub></li> <li>▪ particulates &lt;0.1µm</li> </ul>
Output Pressure	From 0.5 to 6 bar, adjustable by software. (7 to 85psig)
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.(option)
Remote control, Communications	<ul style="list-style-type: none"> <li>■ USB. RS485 (Mod-Bus) or Display</li> <li>■ Trough Ethernet 10/100 network (option) or WLAN (option)</li> <li>■ Log book download by USB.</li> </ul>
Sound pressure	< 58 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	AEROSTATION 50LC TOC-x : maximum 700W
Dimensions	W=220mm, H=540mm, D=500mm with castors
Weight (net)	AEROSTATION50LC TOC-x :35Kg
Certification	CE

## ORDERING NUMBERS

Model	Article #
AEROSTATION 50L TOC-1.5	744301
AEROSTATION 50L TOC-2	744302
AEROSTATION 50L TOC-3	744303

Model	Article #
RS485 Interface option	744380
Ethernet Interface option	744381
WLAN Interface option	744382

### PEUS- INSTRUMENTS GmbH

Max-Roth-Strasse 1  
D – 76571 GAGGENAU, GERMANY  
[www.peus-instruments.com](http://www.peus-instruments.com)

Telephone: +49 7225 9636 3800  
Telefax : +49 7225 9636 3899