

## Ultra Zero Air Station Air Station

### Description

The LNI SCHMIDLIN SA Ultra Zero Air Station produces laboratory high grade purified air to aliment most of the testing equipment. Designed with safety and convenience in mind, this system generates purified air eliminating the need for inconvenient cumbersome high-pressure gas cylinders.

The Ultra Zero Air Station removes CO, CO<sub>2</sub>, HC, NO<sub>x</sub>, SO<sub>2</sub> and O<sub>3</sub>.  
 The flows are 6 NL/min and 30 NL/min.

**Ultra Zero Air Station DO NOT requires external compressed air supply.**

#### Functioning principle:

The internal pump compresses the ambient air. Once compressed, the air is cooled and dried by an automatic coalescent filter. Air is passed into a dual column pressure swing adsorption air dryer to remove water vapor and carbon dioxide. While one of the dryer columns is active, the other is regenerating by back purging the excess air.

Air is next channeled into a stainless steel catalyst chamber where any background hydrocarbons and carbon monoxide are removed. This chamber is heated to very high temperature to insure hydrocarbon removal to less than 0.1 ppm. A final high-grade filter remove particulates greater than 0.5 microns. The compressor stops once the tank has reached its upper pressure level and starts again, once the tank has reached its lower pressure level.



- ✓ **Smart compressor management**
- ✓ **Co<sub>2</sub>, CO, HC free**
- ✓ **Low maintenance**

### Applications

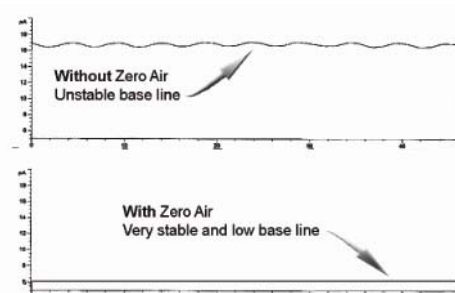


The Ultra Zero Air Station is mainly used to aliment the Flame of GC with hydrocarbon free Air. By using the Ultra Zero Air Station generator, the base line of the GC will be very low and stable, giving the best possible accurate measurement.

The Ultra Zero Air Station can also be used to perform the Zero of Total Hydrocarbon Analyzers. Due to its high filtration level, it can also be used in Total Sulfur and Total Organic Compounds (TOC) analysis. It's also the ideal accessory to aliment in pure air any LNI Schmidlin calibration system.

#### Application of Zero Air:

- Flame Gas for GC-FID / GC-FPD / THC
- Zero Air for THC / TOC / COT / DSC / TGA / ELSD
- Zero Air to aliment permeation device or any calibration system



## Specifications

Flowrate :	6NL/min or 30NL/min	
Delivery pressure :	Up to 5 barg (75 Psig)	
Air purity :	< 0.1 ppm Total Hydrocarbons < 0.05 ppm CO / < 5 ppm CO2 / < 0.05 ppm NOx / < -50°C DP (-58°F)	
Particle filtration level :	0.5 µm	
Sound level :	< 65 dbA	
Fittings :	Outlet Air 1/4" swagelock	
User interface :	Pressure setting, system status, user parameter / Touch screen / LCD graphic display	
Dimensions [cm] :	36x64x67	(WxDxH)
Shipping Dim [cm] :	45x80x80	(WxDxH)
Power requirements :	230V/50Hz - 230V/60Hz - 115V/60H	

Air flow rate [NI/min] max	6	30
Net weight [Kg]	55	70
Shipping weight [Kg]	65	90
Power consumption [Watt]	420	570

## Options – Accessories – Spare parts

### Models:

6911 03 040	Ultra zero air station 6NI/min. Floor casing. 230V/50-60Hz
6911 03 042	Ultra zero air station 6NI/min. Floor casing. 115V/60Hz
6911 03 080	Ultra zero air station 30NI/min. Floor casing. 230V/50-60Hz
6911 03 082	Ultra zero air station 30NI/min. Floor casing. 115V/60Hz

### Consumables:

6711 02 224	Air : set of filters (coalescent V5 + dust)
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**Schmidlin**  
Swiss Made  Innovation

46 chemin de l'étang  
1219 Geneva - Switzerland

Phone +41 22 979 37 24  
Fax +41 22 979 37 20

info@lni-schmidlin.com  
www.lni-schmidlin.com

