

# SynX Zero Air Generator

ZERO AIR GENERATOR

SYNSPEC

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## AIR APPLICATION

- ✓ Gases for gaschromatographs
- ✓ Zero gas for AQM calibrators
- ✓ Mix-up gas for permeation tube systems

### Description

Synspec produces the **SynX Zero Air Generator**, a zero air generator with an internal compressor which supplies high purity zero air close to the analyzer. The generator comes in an elegant 19" casing, with a full-color touchscreen.

To generate zero air, compressed air is dried and filtered, followed by a Pressure Swing Absorption (PSA) step, and finally flows through a hot catalytic chamber to remove CH<sub>4</sub>, CO and other Non-Methane HydroCarbons (NMHC).

It is then stored in a buffer vessel to stabilize output pressure. Finally output pressure is regulated electronically to a set value, between 0.5 and 5 bar (7 to 72 psi).

The generator generates 2.000 ml/min of zero air.

As an option, ethernet communication is possible to create a flexible gas network with local or central control.

Because the software focuses on safety, automatic control and reliable communication, the **SynX Zero Air Generator** is easy to install, reliable, safe and pleasant to use.

### Benefits

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ Improves resolution and detection limit while providing high pressure stability.
- ✓ Zero Air available 24/7 at constant purity.
- ✓ Functions as an independent high purity air source, removing the need for piping. Easily movable within the laboratory.
- ✓ Equipped with low noise < 55 dB (A) and long life compressor with power saving economy function.
- ✓ The operation has internal leak test, automatic shut-down and protections against over temperature making the equipment safe to operate.
- ✓ No handling, storage of gas cylinders. No cylinder rental fee.

# Specifications

<b>MODELS</b>	<b>SynX Zero Air Generator with catalyst to remove HC</b>	
<b>OUTFLOW @ 1013/20°C</b>	2.000 ml/min zero air.	
<b>AIR PURITY</b>	< 250 ppm H <sub>2</sub> O (< -40°C DP ) if input Air is according ISO8573-1/3 < 0.05 ppm NMHC ; < 0.05 ppm CO and CH <sub>4</sub> with catalyzer option	
<b>OUTLET PRESSURES</b>	Zero air: from 0.5 to 5 bar (7 to 72 psi), adjustable by software.	
<b>COMPRESSED AIR</b>	Internal oil free compressor.	
<b>SAFETY</b>	Over pressure valve, internal leak test, automatic shut down, maximum current limit, water quality test, temperature control.	
<b>SOUND PRESSURE</b>	< 57 dB (A), measured at 1 m	
<b>MANUAL CONTROL</b>	A 7" touchscreen displays major parameters like functioning status and alarms. Intuitive navigation to functions by menus and sub menus.	
<b>REMOTE CONTROL, COMMUNICATIONS</b>	✓ RS485 and Ethernet 10/100 network (option)	
<b>OUTLET FITTINGS</b>	Stainless steel 1/8" Swagelok	
<b>POWER SUPPLY</b>	210 to 260 VAC 50/60 Hz standard and 100 to 130 VAC / 60 Hz as option.	
<b>POWER CONSUMPTION ( MAX AT FULL FLOW)</b>	maximum 600 W	
<b>DIMENSIONS</b>	W = 485 mm / 19 inch, H = 135 mm / 5.3 inch (3 U), D = 535 mm / 21,1 inch	
<b>NET WEIGHT</b>	15 kg (33 lb)	Vs 2.4.1

Model	Article #
SynX Zero Air Generator	8800

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