

SONIMIX 3060

Nitrogen Generator (optional) Zero Air Generators

The **SONIMIX 3060** is a nitrogen generator using the well known Pressure Swing Adsorption (PSA) technology to produce continuous flow of high purity **Nitrogen**.

The SONIMIX 3060 is the ideal device to aliment in high purity **Nitrogen** all PID or other devices needing Nitrogen. As option, it is possible to integrate a Zero Air Generator

The PSA technology used together with specific molecular sieve able the selectively removal of Oxygen, humidity, CO2 and non methane hydrocarbons.

If the CH4 (methane) must be removed, a heated catalytic oven can be installed in the device (Option 1)

The software of the SONIMIX control the Nitrogen generator and able to check all important functioning parameters as : outlet pressure, oven temperature (if OP1 is installed),...

The display and keyboard allow a simple and intuitive use of the instrument. The functioning parameters and the alarm can be monitored through the RS 232 remote command as well as through one dry relay.

The utilisation of the SONIMIX 3060 avoid the use of cumbersome and expensive gas cylinders.



- ✓ **Compact / small in size**
- ✓ **No cylinders**
- ✓ **Economic**
- ✓ **Original / Swiss made**

Nitrogen Generator	Zero air generator
<p>The Nitrogen generator main function is to filter, pump dry and remove from the ambient AIR the following gas components : Humidity, Oxygen, CO2 BTEX and hydrocarbons (as well as CH4 (methane) if the option 1 has been installed.))</p>	<p>The Zero Air generator main function is to filter, pump dry and purify the ambient AIR of the Hydrocarbon (as well as the CH4 if the option 11 is installed) and the humidity.</p>
<p>This high quality Nitrogen, produced by separation from Air, can be used to aliment any PID or other analytical device which need a continuous flow of Nitrogen.</p>	<p>This purified AIR can be used to aliment with quality Zero air (combustive) an FID or Chromatograph. Or if the OP 12 is installed to aliment a calibration system or perform the Zero of the Analyser.</p>
<p>Functioning's principal : The ambient air, cleaned of its dust, is pumped to 8 bar, it goes through a cooler and a condenser with automatic drain system. The filtration of the various pollutants and non-methane hydrocarbons is made with the help of an self regenerable system functioning on the pressure swing and reverse flow principle. When a part of the generator is filtering, the other part regenerates itself. In option (Op1), a catalysis oven allow to eliminate the traces of CH4.</p>	<p>Functioning's principals : The ambient air, cleaned of its dust, is pumped to 8 bar, it goes through a cooler and a condenser with automatic drain system. The filtration of the various pollutants and non-methane hydrocarbons is made with the help of an self regenerable system functioning on the pressure swing and reverse flow principle. When a part of the generator is filtering, the other part regenerates itself. In option (Op11), a catalysis oven allow to eliminate the CH4 and the CO.</p>
<p>A fine dust filter and an pressure regulator terminate to condition the Nitrogen.</p>	<p>A fine dust filter and an electronic pressure regulator terminate to condition the Air.</p>



Technical characteristics

Nitrogen generator		Zero air generator	
Outflow generated	200 Ncc/min, purity : N5.5 500 Ncc/min, purity : N4.7	Outflow of generated Zero air	1 to 5 litres/minute at the atmospheric conditions
Outlet pressure	adjustable between 0.5 and 4.5 bar rel	Outlet pressure	1 outlet Adjustable between 1 and 3.5 bar Internal tank 1.5 L
Purity	>99.9995% (N5.5) O2 < 5 ppm H2O < DP -50°C VOC and BTEX < 1ppb	Remaining pollutants level	HCnm < 50 ppb HCm < 50 ppb (if OP11 installed) BTEX < 1 ppb
	>99.997% (N4.7) O2 < 30 ppm H2O < DP -50°C VOC and BTEX < 1ppb	Remaining Humidity level	H2O < 100 ppm
Approximate life time of filters	Preventive maintenance, once every 3 years	Approximate life time of filters	Preventive maintenance, once a year

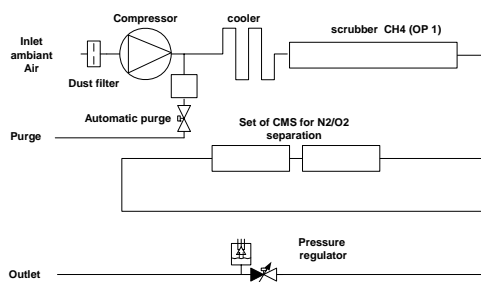
Display / Keyboard	Vacuum Fluorescent Display 2x20 lines /18 keys
Remote command	RS 232
Weight	15 to 30 Kg (depending on options)
Case	19" , 3U, 500mm

Article Numbers, Options and accessories:

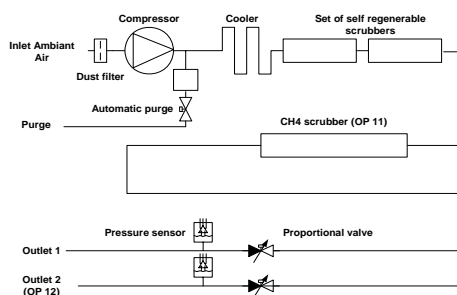
Description	Description
SX 3060 : Nitrogen Generator	SX 3060OP10 : Zero Air Generator (5NI/min)
SX 3060OP1 : Scrubber for CH4	SX 3060OP10AC1 : consumables for the annual maintenance of the ZAG
SX 3060AC1 : consumables for the annual maintenance	SX 3060OP10AC2 : membranes of the compressor
SX 3060AC2 : membranes of the compressor	SX 3060OP11 : Scrubber for CH4
SX 3060OP1AC1 : consumables for CH4 scrubber	SX 3060OP11AC1 : consumables for CH4 scrubber
SX 3060OP1AC2 : Heating element / CH4	SX 3060OP11C2 : Heating element / CH4
	SX 3060OP12 : additional outlet to alimnt a calibration system or perform the zero of the FID
	SX 3060OP13 : External tank 16 litres atm / casing 19'
SX 3060OP97 : Voltage 230VAC /50Hz	SX 3060OP97 : Voltage 230VAC /50Hz
SX 3060OP98 : Voltage 230VAC /60Hz	SX 3060OP98 : Voltage 230VAC /60Hz
SX 3060OP99 : Voltage 117VAC /60Hz	SX 3060OP99 : Voltage 117VAC /60Hz

FLUIDIC SCHEME :

Nitrogen



Zero Air



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