

# Specification manual

## high purity Flex PSA<sup>®</sup>

### Laboratory Nitrogen Generators

## Models

**N2-SIROCCO-NC-Flex**  
**99.9% - 99.999%**

(Requires compressed air)



**LNI Schmidlin AG**

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**NOTICE:** This manual is intended to provide technical specifications of the LNI Schmidlin AG range of Nitrogen Generator SIROCCO Series. If you have any further questions, please contact:

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## ***INTRODUCTION***

### **Product Description**

**LNI SCHMIDLIN AG** high purity nitrogen gas generators (PSA technique) eliminate the need for costly, inconvenient high pressure cylinders in the laboratory. Using compressed air from the customer side, the generators deliver a continuous stream of 99.999%+ pure nitrogen gas with a minimal residual Oxygen content without the need for secondary purification.

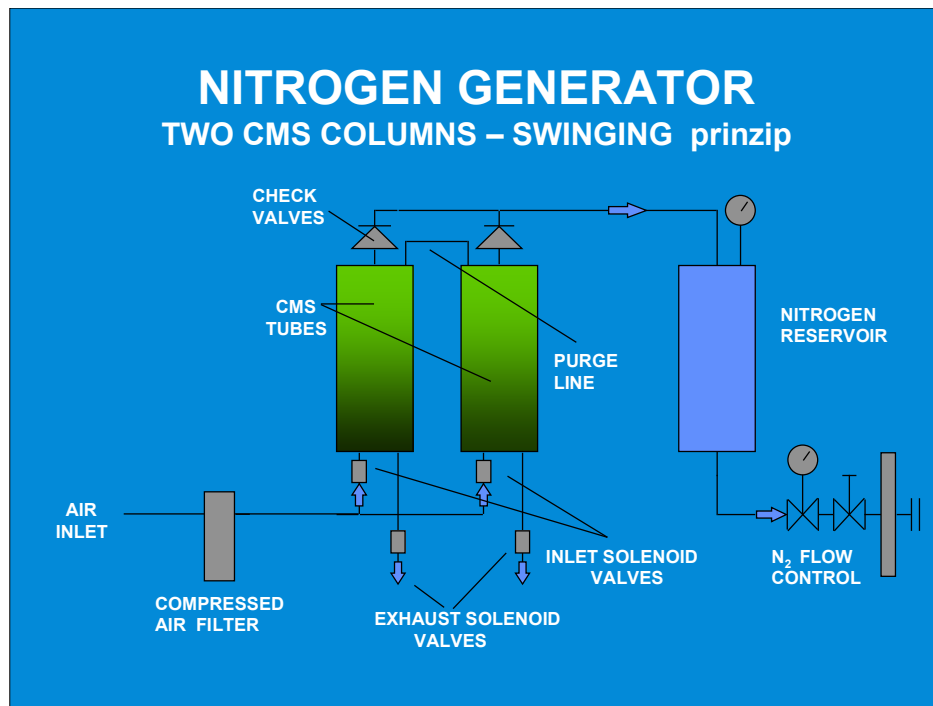
The **LNI SCHMIDLIN AG** SIROCCO-NC-FLEX series of Nitrogen Gas Generators is ideal for operation as nitrogen gas supply for all kind of Laboratory applications.

### **Technical**

**LNI-SCHMIDLIN AG** nitrogen gas generators use the pressure swing adsorption (PSA) system, as used in thousands of systems worldwide to remove oxygen, carbon dioxide and water from compressed air. The resulting stream of nitrogen gas with height purity of 99.995% or better is ideal as source for inert gas, ICP application and any kind of purge gas.

All **LNI-SCHMIDLIN AG** gas generators are designed and manufactured within a rigorous ISO9001 quality system.


## SPECIFICATIONS



***Nitrogen Generator Model N2-Sirocco-NC-Flex performance table  
different Models are available concerning the following table***

N2-Sirocco-NC-flex performance	3 litre	5 litre	8 litre	10 litre	15 litre	20 litre	25 litre
Oxygen contents	20 ppm	30 ppm	40 ppm	50 ppm	200 ppm	400 ppm	1000 ppm
N <sub>2</sub> purity %	>99.995	>99.995	>99.995	99.995	99.98%	>99.95	99.9
min. compressed air requirement ( @ 7 bar)	36 litre	55 litre	80 litre	100 litre	130 litre	170 litre	210 litre
all values are approx values							

## Nitrogen Generator Model N2-Sirocco-NC-flex

Type of production	PSA (pressure swing adsorption)
N <sub>2</sub> purity	See performance table
N <sub>2</sub> delivery pressure	5 barg (standard)
N <sub>2</sub> flow rate	up to 25 l/min see performance table
Compressed air requirement	From external source (approx 100 l/min)
Compressed air pressure	7 bar (100 psig) constant inlet pressure
Compressed air purity	ISO 8573.1 Class 1.2.1 Dirt, Water, Oil (adsorption dryer)
Compressed air purity	Free of Hydrocarbons < 0.1% (no CH <sub>4</sub> (methane))
Indicator lights	Power ON, System OK, System error
Electrical Supply	230V/1ph/50-60Hz or 110V 1ph / 50-60Hz
Noise	< 48 dB
Dimensions	Model N2- Sirocco-NC-Flex
Size in mm	482 x 835 x 641 mm (WxDxH)
Weight	85 kg
Certification	 compliant

## FEATURES

- **Improved safety**

Nitrogen produced at low pressure and ambient temperature removes the need for high pressure cylinders or liquid dewars

- **Increased laboratory efficiency**

A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required

- **Improved economy**

Up to 99.999%+ pure nitrogen gas produced as standard. No need for costly downstream secondary filtration

- **Security of supply**

Integral oil-free air compressor guarantees continuous gas supply, independent of in-house compressed air supply

- **Simple installation**

The gas generators can be installed in the laboratory

## ***MAINTENANCE***

- **Service Kit**

Every 4000 h of operation, the filters and silencer need to be changed. This operation can be performed quite simply by the user, and is described in detail in the user manual.

Every 24000 h of operation, we recommend to service the unit from trained service personal. Pls contact your area representative or LNI Schmidlin AG at [www.lnsgas.com](http://www.lnsgas.com).

An in-built clock informs the user of the current operating hours, and a read light on the front panel indicates when the 4000 h threshold has been reached.