

# Specification manual

## LNI-SCHMIDLIN AG

### MINI Nitrogen Generator

## Model

**N2-BORA-500-NC**

**Table top  
Nitrogen Generator  
Need external source  
of compressed air**



## LNI-Schmidlin AG

MD Scientific is authorized distributor in Denmark for LNI-Schmidlin  
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**NOTICE:** This manual is intended to provide technical specifications of the LNI-SCHMIDLIN AG range of Mini Nitrogen Generator Bora Series. If you have any further questions, please contact:

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## ***INTRODUCTION***

### **Product Description**

**LNI-SCHMIDLIN AG** mini nitrogen gas generators BORA eliminate the need for costly, inconvenient high pressure cylinders in the laboratory. The N2-BORA-500-NC requires compressed air from the factory and generate a continuous stream of > 99.9995% pure nitrogen gas with flow rates up to 500 cc / minutes ( 0.5 litre / min.).

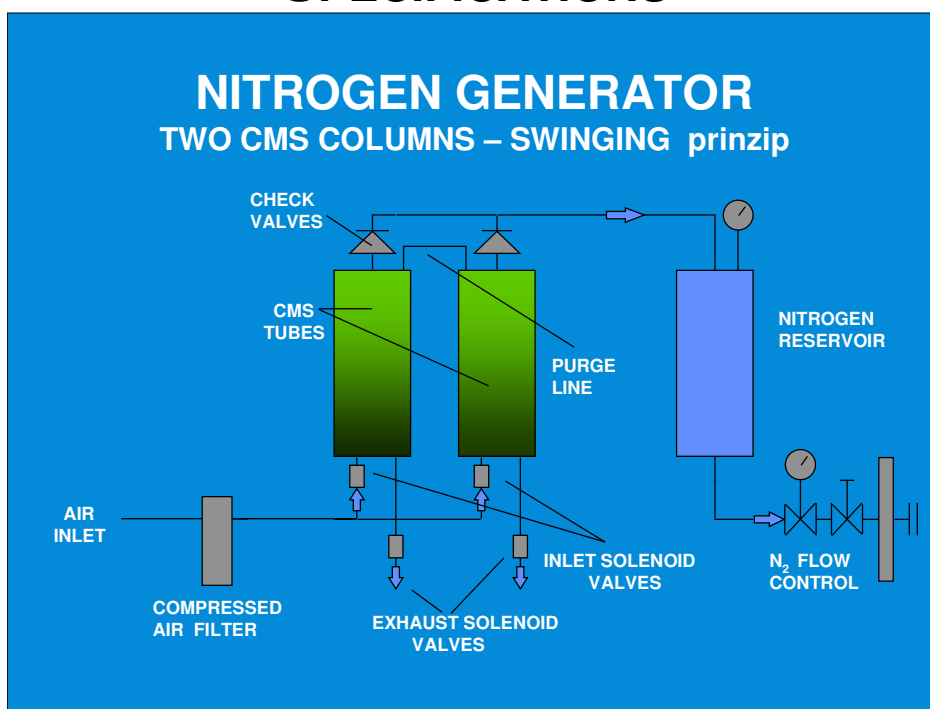
### **Technical**

**LNI-SCHMIDLIN AG** mini 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 99.9995% or better is ideal as source for inert gas, carrier gas and any kind of purge gas.


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

The Bora series of Nitrogen Gas Generators is incredibly miniaturized and very silent, ideal to be placed in a little space like under a on the bench. The N2-Bora-500-NC series is the smallest sized Nitrogen generator in he's class worldwide.

## SPECIFICATIONS



### Nitrogen Generator Model N2-Bora-500-NC

Type of production	PSA (pressure swing adsorption)
N <sub>2</sub> purity	99.9995%
N <sub>2</sub> delivery pressure	5 barg (standard)
N <sub>2</sub> flow rate	up to 500 ml/min
Compressed air requirement	From external source (approx 7 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- Bora-500-NC
Height in mm	300
Width in mm	350
Depth in mm	400
Weight	16 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**

98% or better pure nitrogen gas produced as standard. Requires only compressed air from an external source.

- **Security of supply**

No high pressure cylinder requirement and very little moving part for long term stable run without frequent maintenance demand. Profit from in-house compressed air supply

- **Simple installation**

The gas generators can be installed in the laboratory, next to the consumer.

## ***MAINTENANCE***

- **Service Kit**

Every 4000 h of operation, (approx. 6 month of continuous 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.

An in-built clock informs the user of the current operating hours.