

# Specification manual

## LNI-SCHMIDLIN AG

### MINI Nitrogen Generators

## Models

**N2-BORA-750-C**

**Table top unit**



## 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. Including an integral oil-free air compressor as standard, the generators deliver a continuous stream of 99.999%+ pure nitrogen gas with a residual Oxygen content of less than 10 ppm without the need for secondary purification.

The **LNI-SCHMIDLIN AG** Bora series of mini Nitrogen Gas Generators is ideal for operation as nitrogen gas supply for all kind of Laboratory and Chromatography applications.

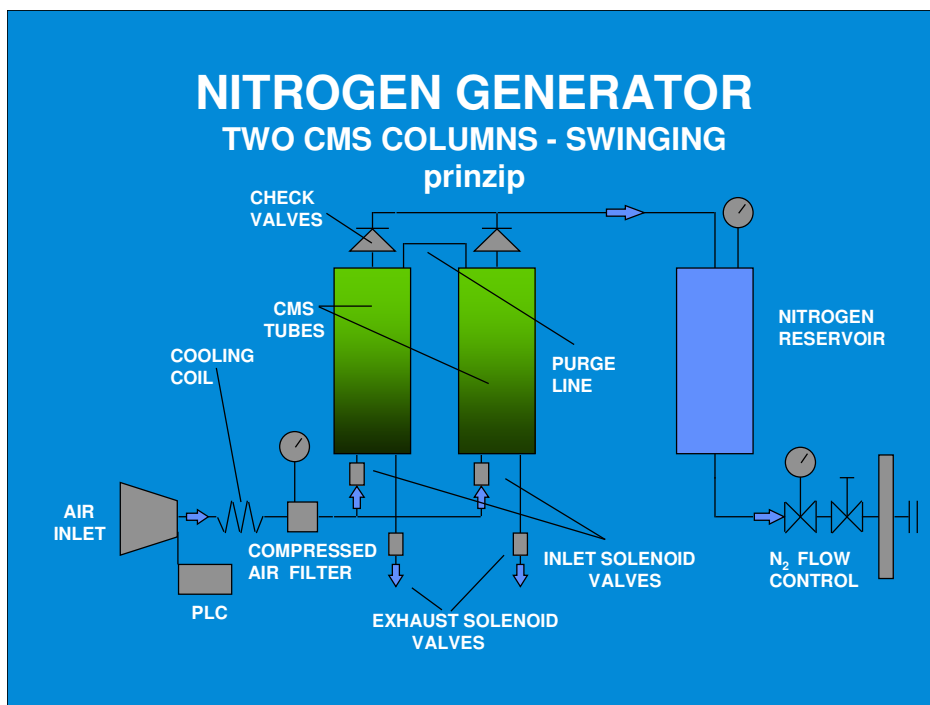
### **Technical**

**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 high purity nitrogen gas 99.999% is ideal for applications including GC carrier, make-up gas, generally for all the low flow applications.

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 Bora series is the smallest sized high purity nitrogen generator worldwide.

## SPECIFICATIONS



### Nitrogen Generator Model N2-Bora-750-C

Type of production	<b>PSA (pressure swing adsorption)</b>	
N <sub>2</sub> purity	<b>&gt;99.999%</b>	
Delivery pressure	<b>5 barg (standard)</b>	
N <sub>2</sub> flow rate	<b>Up to 750 ml/min</b>	
Oxygen content	<b>&lt; 10 ppm</b>	
Outlet pressure	<b>5 barg (standard) 58 psig</b>	
Integral Air Compressor	<b>yes</b>	
Indicator lights	<b>Power ON, System OK, System error</b>	
Electrical Supply	<b>230V/1ph/50-60Hz or 110V 1ph / 50-60Hz</b>	
Noise	<b>&lt; 50 dB</b>	
Dimensions	<b>Model Bora</b>	
Height in mm	<b>300</b>	
Width in mm	<b>350</b>	
Depth in mm	<b>400</b>	
Weight	<b>18 kg</b>	
Certification	<b>CE compliant</b>	

## ***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**

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 8000 h of operation, the on board air compressor need to be serviced. Service Kits are available for both type of services.

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.