



N<sub>2</sub>

Air

# NGA CASTORE XL iQ EVOQ

Membrane Nitrogen generator with  
integrated direct drive Scroll compressor.  
Electronic controlled

**NGA CASTORE XL iQ EVOQ** is a Nitrogen Generator with Membrane technology.

It is engineered to transform standard compressed air into a safe, regulated supply of Nitrogen up to 32 l/min with a purity up to 99.95% plus a second outlet of dry and clean air up to 50 l/min. A special carbon filter is used to remove VOC.

The CASTORE XL iQ EVOQ with its dual Nitrogen and Air outlets has been developed to meet specific requirements in term of gas, flow, purity and pressure for Bruker EVOQ solutions.

It can be used for LC-MS and the evaporation of solvents in samples being analysed.

The new **iQ** generators are equipped with an innovative direct drive motor-scroll compressor system (oil less) with inverter technology.

The exclusive electronic flow control combined with the compressor control by the inverter allows to generate Nitrogen with a higher purity using a smaller volume at less pressure of air which results in reduced energy costs and increase the life time of the compressor. Continuous control of the operating parameters of Nitrogen allows to maintain the system at its maximum efficiency.

## Main applications

- Bruker EVOQ
- Solvent evaporation
- LCMS

## Main advantages

- ✓ Compatible with Bruker EVOQ Solutions
- ✓ Carbon filter to remove VOC
- ✓ Dual Nitrogen and Air generator
- ✓ Plug & Play
- ✓ Low noise
- ✓ Low maintenance
- ✓ No belts, direct drive
- ✓ Generates nitrogen on demand
- ✓ Exclusive electronic flow control with automatic Stand-by function
- ✓ Ultra silent technology: 50 dB(A)
- ✓ Reliable – No vibrations
- ✓ Designed to run 24 hours a day



## Specifications



Models: NGA CASTORE XL iQ	EVOQ	
	6920.70.45	6920.70.45.1
<b>N2 outlet</b>		
Flow rate (Max)	32 l/min	
Outlet pressure (Max)	6.5 Bar (94 psi)	
O2 Residual	< 500ppm @ 10 L/min < 0.5% @ 30 L/min	
<b>Dry Air outlet</b>		
Flow rate (Max)	50 l/min	
Outlet pressure (Max)	6.5 Bar (94 psi)	
Dew point *1	< -30°C (<-22°F)	
<b>Communication</b>		
LCD with touch screen	Standard	
RS485	Standard	
RS232	For service	
WiFi	Optional	
<b>General data</b>		
Power supply voltage (min-Max)	220-240 Vac (±10%) 56/60 Hz	115-240 Vac (±10%) 50/60 Hz
Connection type	IEC C20	
Rated power	1.9 KW	1.7 KW
Net weight	180 kg	190 kg
Noise level	< 50 dB	
Heat value (BTU)	6500	5800
Dimensions (W x D x H)	59 x 92 x 73 cm	
<b>Connections</b>		
N2 outlet port	¼" SWAGELOK compatible	
Dry Air outlet port	¼" SWAGELOK compatible	
Drain port	¼" BSPP female	
<b>Operating/storage conditions</b>		
Temperature	5-35°C (41-95°F) *2	
Humidity (max, non condensing)	80% [5-35°C (41-95°F)]	
Altitude	< 2000 m	
Over-voltage category	II	
Pollution degree rating	2 (with no aromatic compounds)	
IP rating	IP20	

\*1 - Atmospheric Dew Point (ADP)

\*2 - Min temperature > 10°C to have best performance on O<sub>2</sub> residual content

### Ordering codes

#### Gas Generators

6920.70.45 NGA CASTORE XL iQ EVOQ **(220-240 Vac models)**

6920.70.45.1 NGA CASTORE XL iQ EVOQ **(115-240 Vac models)**  
**FULL RANGE power supply voltage**

#### Accessories

6920.71.30 Box with 2 pressure regulator

6920.71.40 Box with 3 pressure regulator

#### Options

6920.71.50 WiFi Module for NG CASTORE XL

6920.71.80 Carbon column for NG CASTORE XL

#### Consumable

6930.00.141 Filter elements for NG CASTORE XL without carbon column installed

6930.00.148 Filter elements for NG CASTORE XL with carbon column installed

6930.00.147 Carbon filter column for NG CASTORE XL

LNI Swissgas

www.lni-swissgas.eu



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LNI Swissgas Srl

Registered office: Via Sassoferato 1, 20135 Milano MI

Logistics centre: Via E. Mattei 9, 35038 Torreglia PD