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NGA CASTORE XL iQ

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

The NitroGen series **NGA CASTORE XL iQ** are Membrane Nitrogen and dry air Generators. They are engineered to transform standard compressed air into a safe, regulated supply of Nitrogen up to 40 L/min with a purity up to 99.8%. A channel can provide up to 60 L/min of compressed, dry and regulated air.

This NGA series is equipped with a scroll built-in oil less compressor with inverter technology.

The new **iQ** series is equipped with the innovative direct drive motor-compressor system that result in lower noise than the previous version.

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.

The **CASTORE XL iQ** with its dual Nitrogen and Air outlets has been developed to meet specific requirements in term of gas, flow, purity and pressure in LC-MS applications. It can be used for the evaporation of solvents in samples being analysed.

Main applications

- LCMS
- Solvent evaporation
- Agilent MP AES

Main advantages

- ✓ Compatible with all LCMS
- ✓ Dual Nitrogen and Air generator
- ✓ 200 cc/min UHP Nitrogen for collision cell
- ✓ Low noise
- ✓ Low maintenance
- ✓ No belts, direct drive
- ✓ Generates nitrogen on demand
- ✓ Exclusive electronic flow control
- ✓ Ultra silent technology: 50 dB(A)
- ✓ Reliable – No vibrations
- ✓ Designed to run 24 hours a day





Specifications

Models: NGA CASTORE XL iQ	20.40 6920.70.21	40.40 6920.70.41	20.60 6920.70.22
N2 outlet			
Flow rate (Max)	20 l/min	40 l/min	20 l/min
Outlet pressure (Max)		8 Bar (116 psi)	
Nitrogen purity		LCMS grade (up to 99.9%* ¹)	
Nitrogen for collision cell* ²		200 cc/min @ 99.9999%* ³ with option 6920.71.90	
Dry Air outlet			
Flow rate (Max)		40 l/min	60 l/min
Outlet pressure (Max)		8 Bar (116 psi)	
Dew point * ⁴		< -40°C (< -40°F)	
Communication			
LCD with touch screen		Standard	
RS485		Standard	
RS232		For service	
General data			
Power supply voltage (min-Max)		220-240 Vac (±10%) 50/60 Hz	
Connection type		IEC C20	
Nominal power	1.8 KW	2.0 KW	2.0 KW
Net weight		180 kg	
Noise level (Max)		< 50 dB	
Heat value (BTU)	6150	6830	6830
Dimensions (W x D x H)		59 x 92 x 73 cm	
Connections			
N2 outlet port		¼" BSPP female	
Dry Air outlet port		¼" BSPP female	
N2 UHP outlet port		¼" BSPP female	
Drain port		¼" BSPP female	
Operating/storage conditions			
Temperature		5-35°C (41-95°F)	
Humidity (max, non condensing)		80% [5-35°C (41-95°F)]	
IP rating		IP20	
Pollution degree rating		2 (with no aromatic compounds)	

*¹ The purity refers to the residual oxygen, depends on flow and working pressure

*² Optional, see below

*³ The purity refers to the residual oxygen

*⁴ Atmospheric Dew Point (ADP)

Ordering codes

Gas Generators

6920.70.21	NGA CASTORE XL iQ 20.40
6920.70.41	NGA CASTORE XL iQ 40.40
6920.70.22	NGA CASTORE XL iQ 20.60

(220-240 Vac models)

Accessories

6920.71.30	Box with 2 pressure regulator
6920.71.40	Box with 3 pressure regulator

Options

6920.71.50	WiFi Module for CASTORE XL
6920.50.012	O2 sensor option (%) for CASTORE XL
6920.71.80	Carbon column for CASTORE XL
6920.71.90	Ultra High Purity N2 module 200 cc/min

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

Asynt

Asynt Ltd
T: +44 (0)1638 781709
E: enquiries@asynt.com
W: Asynt.com