

NG CASTORE XL iQ

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

The NitroGen series **NG CASTORE XL iQ** use Membrane technology.

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%. This NG 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** is LNI's proven solution for customers requiring nitrogen for their **GCxGC modulators**.



Intelligent Quiet Technology

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Main applications

- GCxGC

Main advantages

- ✓ Compatible with all GCxGC modulators
- ✓ 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
- ✓ Plug & Play system





Specifications

Models: NG CASTORE XL iQ		40
N2 outlet		
Heating Gas Flow (Max)		25 l/min
Cooling Gas Flow (Max)		15 l/min (requires option 6920.71.30)
Outlet pressure (Max)		9 Bar
Nitrogen purity		up to 99.8% ^{*1}
Nitrogen for collision cell ^{*2}		200 cc/min @ 99.9999% ^{*3} with option 6920.71.90
Communication		
LCD with touch screen		Standard
RS485		Standard
RS232		For service
General data		
Power supply voltage		220-240 Vac 47..63 Hz (230 Vac only models) 100-250 Vac 47..63 Hz (full range power supply voltage models)
Connection type		IEC C20
Rated power(max)		1.6 KW
Net weight		175 kg (230 Vac only models) 185 kg (full range power supply voltage models)
Noise level		< 50 dB
Dimensions (W x D x H) mm		590 x 920 x 730
Connections		
Heating Gas outlet port		¼" BSPP female
Cooling Gas 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% at 25°C (77°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

Ordering codes		
Gas Generators		
6920.70.40	NG CASTORE XL iQ 40	230 Vac only
6920.70.40.1	NG CASTORE XL iQ 40	100-240 Vac Full range power supply voltage
Accessories		
6920.71.30	Box with 2 pressure regulators	
Options		
6920.71.50	WiFi Module	
6920.71.60	Parallel Controller Box with LAN port for NG CASTORE XL	
6920.71.90	Ultra High Purity N2 module 200 cc/min	
Consumable		
6930.00.141	Filter elements for NG CASTORE XL	
	NOTE: 4000H service interval	



LNI Swissgas
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For further
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trial the equipment,
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