

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 70 L/min with a purity up to 99.9%. 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** 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.



Intelligent Quiet Technology

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Main applications

- LCMS
- Solvent evaporation
- Agilent MP AES

Main advantages

- ✓ Compatible with all LCMS
- ✓ 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: NG CASTORE XL iQ	20	40	70
N2 outlet			
Flow rate (Max)	20 l/min	40 l/min	70 l/min
Outlet pressure (Max)	10 Bar	9 Bar	
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		
Communication			
LCD with touch screen	Standard		
RS485	Standard		
RS232	For service		
General data			
Power supply voltage (min..Max)	190..250 Vac 47..63 Hz (190-250 Vac models)		
	100..250 Vac 47..63 Hz (FULL RANGE power supply voltage models)		
Connection type	IEC C20		
Rated power(Max)	1.2 KW	1.4 KW	1.8 KW
Net weight	175 kg (190-250 Vac models)		
	185 kg (FULL RANGE power supply voltage models)		
Noise level	< 45 dB		< 50 dB
Heat value (BTU)	4100	4780	6150
Dimensions (W x D x H)	59 x 92 x 73 cm		
Connections			
N2 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	
6920.70.20	NG CASTORE XL iQ 20
6920.70.40	NG CASTORE XL iQ 40 (190-250 Vac models)
6920.70.70	NG CASTORE XL iQ 70
Accessories	
6920.71.30	Box with 2 pressure regulator
6920.71.40	Box with 3 pressure regulator
Options	
6930.00.018	Electronic flow measurement
6920.71.50	WiFi Module
6920.71.60	Parallel Controller Box with LAN port for NG CASTORE XL
6920.50.012	O2 sensor option (%)
6920.71.80	Carbon column 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 without carbon column installed
6930.00.148	Filter elements for NG CASTORE XL with carbon column installed
6930.00.147	Replacement carbon column for NG CASTORE XL
	NOTE: 8000H for NG CASTORE XL 20 models 4000H for NG CASTORE XL 40 and 70 models



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