

# 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, FULL RANGE models (115-240 Vac)



Models: NG CASTORE XL iQ	20	40	70
	6920.70.20.1	6920.70.40.1	6920.70.70.1
<b>N2 outlet</b>			
Flow rate (Max)	20 l/min	40 l/min	70 l/min
Outlet pressure (Max)	9 Bar	8 Bar	
Nitrogen purity	LCMS grade (up to 99.9% <sup>*1</sup> )		
Nitrogen for collision cell <sup>*2</sup>	200 cc/min @ 99.9999% <sup>*3</sup> with option <b>6920.71.90</b>		
<b>Communication</b>			
LCD with touch screen	Standard		
RS485	Standard		
RS232	For service		
<b>General data</b>			
Power supply voltage (min-Max)	115-240 Vac (±10%) 50/60 Hz		
Connection type	IEC C20		
Rated power(Max)	1.3 KW	1.5 KW	1.9 KW
Net weight	185 kg	185 kg	185 kg
Noise level	< 45 dB		< 50 dB
Heat value (BTU)	4440	5130	6500
Dimensions (W x D x H)	59 x 92 x 73 cm		
<b>Connections</b>			
N2 outlet port	¼" BSPP female		
N2 UHP outlet port	¼" BSPP female		
Drain port	¼" BSPP female		
<b>Operating/storage conditions</b>			
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

### Ordering codes

#### Gas Generators

6920.70.20.1	NG CASTORE XL iQ 20
6920.70.40.1	NG CASTORE XL iQ 40
6920.70.70.1	NG CASTORE XL iQ 70

**(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 CASTORE XL
6920.50.012	O2 sensor option (%) for CASTORE XL
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	Carbon filter 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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