

NGA CASTORE XL iQ SCIEX

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

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

It is engineered to transform standard compressed air into a supply of Nitrogen up to 20 L/min with a purity up to 99.9% and with two additional outlets for dry and clean air. All of these three outlets have its own internal flow/pressure regulator for an appropriate adjustment to guarantee safety and precision.

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

A special carbon filter is used to remove VOC.

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

- SCIEX instruments
- Solvent evaporation
- LCMS

Main advantages

- ✓ Compatible with SCIEX instruments
- ✓ Carbon filter to remove VOC
- ✓ Dual Nitrogen and Air generator
- ✓ 200 cc/min UHP Nitrogen for collision cell
- ✓ 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		SCIEX	
		6920.70.43	6920.70.43.1
N2 outlet			
Flow rate (Max)	20 L/min		
Outlet pressure	8 bar (116 psi)		
N2 purity	LCMS grade (up to 99.9%)		
Dew point ^{*1}	< -60°C (<-76°F)		
Nitrogen for collision cell ^{*2}	200 cc/min @ 99.9999% ^{*3} with option 6920.71.90		
Dry Air outlet 1			
Flow rate (Max)	30 l/min		
Outlet pressure (Max)	7 Bar (101 psi)		
Dew point ^{*1}	< -40°C (<-40°F)		
Dry Air outlet 2			
Flow rate (Max)	30 l/min		
Outlet pressure (Max)	4 Bar (58 psi)		
Dew point ^{*1}	< -40°C (<-40°F)		
Communication			
LCD with touch screen	Standard		
RS485	Standard		
RS232	For service		
WiFi	Optional		
General data			
Power supply voltage (min-Max)	220-240 Vac (±10) 50/60 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		
Connections			
N2 outlet port	¼" SWAGELOK compatible		
Dry Air outlet port	¼" SWAGELOK compatible		
Drain port	¼" BSPP female		
Operating/storage conditions			
Temperature	5-35°C (41-95°F) ^{*4}		
Humidity (max, non condensing)	80% [5-35°C (41-95°F)]		
Altitude	< 2000 m		
Pollution degree rating	2 (with no aromatic compounds)		
IP rating	IP20		

^{*1} – Atmospheric Dew Point (ADP)

^{*2} – Optional, see below

^{*3} – The purity refers to the residual oxygen

^{*4} – Min temperature > 10°C to have best performance on O₂ residual content

Ordering codes

Gas Generators

6920.70.43 NGA CASTORE XL iQ SCIEX **(220-240 Vac models)**

6920.70.43.1 NGA CASTORE XL iQ SCIEX **(115-240 Vac models)**
FULL RANGE power supply voltage

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



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