

NGA CASTORE XL iQ QSight

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

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

It is engineered to transform standard compressed air into a supply of Nitrogen up to 15 L/min with a purity up to 99.9% and with an additional outlet for dry and clean air. All of these outlets have its own internal flow/pressure regulator for an appropriate adjustment to guarantee safety and precision.

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

- Perkin Elmer QSight instruments
- Solvent evaporation
- LCMS

Main advantages

- ✓ Compatible with QSight instruments
- ✓ Carbon filter to remove VOC
- ✓ Dual Nitrogen and Air generator
- ✓ 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 QSight	Single Source	Dual Source
N2 Outlet		
Flow rate (Max)	15 l/min	
Outlet pressure	8 Bar (116 psi)	
O2 Residual	LCMS grade (up to 99.9%)	
Dew point *1	< -60°C (<-76°F)	
Dry Air outlet		
Flow rate (Max)	34 l/min	67 l/min
Outlet pressure (Max)	8 Bar (116 psi)	
Dew point *1	< -20°C (<-4°F)	
Communication		
LCD with touch screen	Standard	
RS485	Standard	
RS232	For service	
WiFi	Optional	
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	
Nominal power	1.3 kW	1.7 kW
Net weight	180 kg (190-250 Vac models) 190 kg (FULL RANGE power supply voltage models)	
Noise level	< 50 dB	
Heat value (BTU)	4450	5800
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	
Drain port	¼" BSPP female	
Operating/storage conditions		
Temperature	5-35°C (41-95°F) *2	
Humidity (max, non condensing)	80% at 25°C (77°F)	
Altitude	up to 4000 m	
Pollution degree rating	2 (with no aromatic compounds)	
IP rating	IP20	

*1 – Atmospheric Dew Point (ADP)

*2 – Min temperature > 10°C (>50°F) to have best performance on O₂ residual content

Ordering codes

Gas Generators

6920.70.23	NGA CASTORE XL iQ QSight Single Source	(190-250 Vac models)
6920.70.24	NGA CASTORE XL iQ QSight Dual Source	

6920.70.23.1	NGA CASTORE XL iQ QSight Single Source	(100-250 Vac models)
6920.70.24.1	NGA CASTORE XL iQ QSight Dual Source	FULL RANGE power supply voltage

Options

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

Consumable

6930.00.141	Service Kit 8000H for NG CASTORE XL models
6930.00.147	Replacement carbon column for NG CASTORE XL



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