NitroGen
AirGen

Intelligent Quiet Technology

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 16 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

Evolution
in Gas Generators

Specifications

Models: NGA CASTORE XL iQ QSight	Single Source		Dual Source	
	6920.70.23	6920.70.23.1	6920.70.24	6920.70.24.1
N2 Outlet				
Flow rate (Max)	16 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)	220-240 Vac (±10%) 50/60 Hz	100-240 Vac (±10%) 50/60 Hz	220-240 Vac (±10%) 50/60 Hz	100-240 Vac (±10%) 50/60 Hz
Connection type	IEC C20			
Nominal power	1.7 kW	1.5 kW	1.9 kW	1.7 kW
Net weight	180 kg	190 kg	180 kg	190 kg
Noise level	< 50 dB			
Heat value (BTU)	5800	5130	6500	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)	80.00% [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 – Min temperature > 10°C (>50°F) to have best performance on O_2 residual content

Ordering codes

Gas Generators

6920.70.23	NGA CASTORE XL iQ QSight Single Source	***(220-240 Vac models)***
6920.70.24	NGA CASTORE XL iQ QSight Dual Source	
6920.70.23.1	NGA CASTORE XL iQ QSight Single Source	***(115-240 Vac models) FULL RANGE power supply voltage***
6920.70.24.1	NGA CASTORE XL iQ QSight Dual Source	

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

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