

NG CASTORE XL iQ 3D PRINTING

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



H
N₂
A

The NitroGen series **NG CASTORE XL iQ 3D PRINTING** 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%. The generator produces a continuous flow of Nitrogen with Laser grade in 24/7 production process worldwide, even under the most challenging environments to guarantee frictionless industrial use.

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 for Laser applications.

Main applications

- 3D laser printing
→ Reducing the oxygen amount in building chamber to prevent material from oxidation

Main advantages

- ✓ Easy use and quick installation
- ✓ Compatible with 3D Laser Printer
- ✓ 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



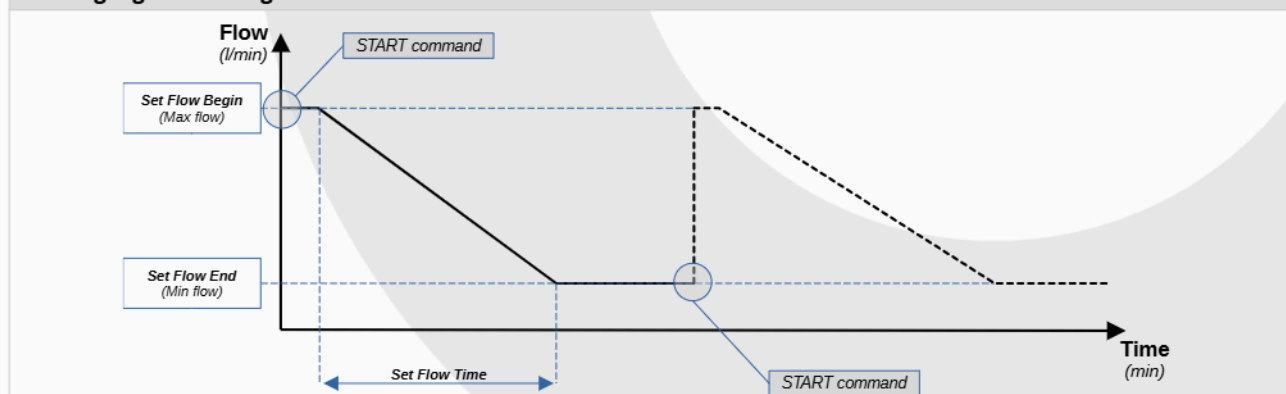
Specifications



Models: 6920.70.130	NG CASTORE XL iQ 3D PRINTING
N2 outlet	
Flow rate (Max)	70 L/min
Outlet pressure (Max)	9 bar (130 psi)
Nitrogen purity ⁽¹⁾	< 500 ppm @ 10 L/min < 0.5% @ 30 L/min
Communication	
LCD with touch screen	Standard
RS485	Standard
RS232	For service
General data	
Power supply voltage (min-Max)	220-240 Vac (±10%) 50/60 Hz
Connection type	IEC C20
Rated power(Max)	2.2 KW
Net weight	175 kg
Noise level	< 50 dB(A)
Heat value (BTU)	7510
Dimensions (W x D x H)	59 x 92 x 73 cm
Connections	
N2 outlet port	¼" BSPP female (Installed fitting: Double ferrule compression fitting, tube 1/4")
Drain port	¼" BSPP female
Operating/storage conditions	
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)
Altitude	< 2000 m

(1) The purity refers to the residual oxygen, depends on flow and working pressure

Working algorithm diagram



Ordering codes

Gas Generators

6920.70.130 NG CASTORE XL iQ 3D PRINTING | (220-240 Vac models)

Accessories

6920.71.30 Box with 2 pressure regulator

6920.71.40 Box with 3 pressure regulator

Consumable

6930.00.141 Filter elements for NG CASTORE XL without carbon column installed



LNI S.r.l.
www.lni-swissgas.eu
info@lni-swissgas.eu