

NG CASTORE PRO HP

Membrane Nitrogen generator
electronic controlled

The NitroGen series CASTORE PRO HP are Membrane Nitrogen Generators. They are engineered to transform standard compressed air into a safe, regulated supply of Nitrogen with a purity greater than 99.5%.

The exclusive electronic flow control allows to generate Nitrogen with a higher purity using a smaller volume of air which results in reduced energy costs and maintenance of any external compressor. Continuous control of the operating parameters allows to maintain the system at its maximum efficiency.

The CASTORE PRO HP has been developed to meet specific requirements in term of gas, flow, purity and pressure for ELSD, TOC, ICP, DSC/TGA and other applications. It can be used for the evaporation of solvents in samples being analysed.

Main applications

- ELSD
- TOC
- ICP
- DSC/TGA

Main advantages

- ✓ Nitrogen purity >99.5%
- ✓ Low noise
- ✓ Low maintenance
- ✓ Generates nitrogen on demand
- ✓ Smart energy save mode
- ✓ Exclusive electronic flow control
- ✓ Designed to run 24 hours a day





Specifications

Models: NG CASTORE PRO HP	4	8
N2 outlet		
Flow rate (Max)	4 l/min	8 l/min
Outlet pressure (min / Max)	2.0 bars / Inlet pressure – 0.5 bar	
Nitrogen purity	> 99.5 % @ 4 l/min	> 99.5 % @ 8 l/min
Inlet Pressure \geq 8 bar (116psi)	Dew-point* ¹ < -40°C (-40°F)	Dew-point* ¹ < -40°C (-40°F)
Air inlet		
Air inlet requirement	ISO 8573-1:2010 Class [2:4:1]	
Flow rate Max (@7 Bar)	40 L/min	45 L/min
Supply pressure (min / Max)	5 bars (72.5 psi) / 10bars (145 psi)	
Temperature (min / Max)	1°C (34°F) 45°C (113°F)	
Communication		
LCD with touch screen	Standard	
RS485	Standard	
RS232	For service	
General data		
Supply rating	100-240Vac (\pm 10%) 47..63Hz	
Connection type	IEC320-C14	
Nominal power (Max)	25W (30VA)	
Fuse rating (5x20mm)	1A (250Vac – T)	
Net weight	< 35 kg	
Dimensions (W x D x H)	28 x 32 x 120 cm	
Connections		
N2 outlet port	¼" BSPP female	
Inlet port	¼" BSPP female	
Drain port	¼" BSPP female	
Operating/storage conditions		
Temperature	5-35°C (41-95°F)	
Humidity (max, non condensing)	80% at 25°C (77°F)	
Noise	< 35dB(A)	
IP rating	IP20	
Pollution degree rating	2 (with no aromatic compounds)	
Altitude	< 2000m	

*¹ Atmospheric Dew Point (ADP)

Ordering codes

Gas Generators

6920.50.004 CASTORE PRO HP 4

6920.50.008 CASTORE PRO HP 8

Accessories

6920.50.012 O2 sensor option (%)

Consumable

6930.00.140 Service Kit 8000H for CASTORE models



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