



NitroGEN

The NitroGen series **CASTORE PRO** are Membrane Nitrogen Generators. They are engineered to transform standard compressed air into a safe, regulated supply of Nitrogen with a purity up to 99.5%. An optional channel can provide up to 45 l/min of compressed, dry and regulated air.

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** with its dual Nitrogen and Air outlets has been developed to meet specific requirements in term of gas, flow, purity and pressure in LC-MS applications. It can be used for the evaporation of solvents in samples being analysed.

Main applications

- LCMS
- Solvent evaporation

Main Advantages

- Compatible with all LCMS
- Dual Nitrogen and Air generator
- Low noise
- Low maintenance
- Generates nitrogen on demand
- Exclusive electronic flow control
- Designed to run 24 hours a day

Specifications

NG CASTORE PRO

Membrane Nitrogen generator
electronic controlled

NG CASTORE PRO	25	25-40	45	45-40	60
N₂ outlet					
Flow rate (Max)	25 l/min		45 l/min		60 l/min
Outlet pressure (Min; Max)	2.0 bars; Inlet pressure – 1.0 bar				
Nitrogen purity (Inlet Pressure >8 bar)	>98.5% @ 25 l/min		>98.5% @ 45 l/min		>98.5% @ 60 l/min
	>99.5% @ 10 l/min		>99.5% @ 25 l/min		
Dry Air outlet					
Flow rate (Max)	40 l/min		40 l/min		
Outlet pressure	Inlet pres. 1 bar		Inlet pres. 1 bar		
Dew point	<-20°C (-4°F)		<-20°C (-4°F)		
Air inlet					
Air inlet requirement	Particulate: <1 micron Dewpoint: <20°C (68°F) Oil: <0.01 mg/m ³				
Flow rate (Max)	125 l/min	140 l/min	190 l/min	215 l/min	205 l/min
Supply pressure (Min; Max)	5 bars; 10 bars				
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 50/60Hz – 1 A				
Connection type	IEC320-C13				
Installation power (Max)	25 W (30 VA)				
Fuse rating	2 x 1 A -240 VAC (5x20 mm)				
Net weight	<23 kg				<25 kg
Dimensions (W x D x H)	260 x 280 x 1200 mm				
Connections					
N ₂ outlet port	¼" BSPP female				
Dry Air 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	<25 dB(A)				
IP rating	IP20				
Pollution degree rating	2 (with no aromatic compounds)				
Altitude	<2000 m				

Gas Generators

6920.50.025	CASTORE PRO 25	6920.50.145	CASTORE PRO 45-40
6920.50.125	CASTORE PRO 25-40	6920.50.060	CASTORE PRO 60
6920.50.045	CASTORE PRO 45	6920.50.160	CASTORE PRO 60-40

Accessories

6920.50.000	50 l Nitrogen tank with pressure regulator and safety valve
6920.50.005	Dual 25 l Nitrogen + 25 l Air Tank with pressure regulator and safety valve

Consumable

6930.00.140	Service Kit 8000H for CASTORE models
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Ordering codes