

# NG CASTORE PRO

Membrane Nitrogen generator  
electronic controlled

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



Models: NG CASTORE PRO	25	25.40	45	45.40	60	60.40
<b>N2 outlet</b>						
Flow rate (Max)	25 l/min		45 l/min		60l/min	
Outlet pressure (min; Max)	2.0 bars; Inlet pressure – 1.0 bar					
Nitrogen purity	> 98.5 % @ 25 l/min		> 98.5 % @ 45 l/min		> 98.5 % @ 60 l/min	
Inlet Pressure > 8 bar (116 psi)	> 99.5 % @ 10 l/min		> 99.5 % @ 25 l/min			
<b>Dry Air outlet</b>						
Flow rate (Max)	-	40 l/min	-	40 l/min	-	40 l/min
Outlet pressure	-	Inlet press. - 1bar	-	Inlet press. - 1bar	-	Inlet press. - 1bar
Dew point *1	-	< -40°C (-40°F)	-	< -40°C (-40°F)	-	< -40°C (-40°F)
<b>Air inlet</b>						
Air inlet requirement	ISO 8573-1:2010 Class [2:4:1]					
Flow rate (Max)	115 l/min	155 l/min	135 l/min	175 l/min	150 l/min	190 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)					
<b>Communication</b>						
LCD with touch screen	Standard					
RS485	Standard					
RS232	For service					
<b>General data</b>						
Supply rating	100-240 Vac (±10%) 47..63 Hz					
Connection type	IEC320-C14					
Nominal power (max)	25W (30VA)					
Fuse rating (5x20mm)	1A (250 Vac – T)					
Net weight	< 30 kg		< 35 kg			
Dimensions (W x D x H)	28 x 32 x 120 cm					
<b>Connections</b>						
N2 outlet port	¼" BSPP female					
Dry Air outlet (only in xx.40)	¼" BSPP female					
Inlet port	¼" BSPP female					
Drain port	¼" BSPP female					
<b>Operating/storage conditions</b>						
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

6920.50.025	CASTORE PRO 25
6920.50.125	CASTORE PRO 25.40
6920.50.045	CASTORE PRO 45
6920.50.145	CASTORE PRO 45.40
6920.50.060	CASTORE PRO 60
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 25L Nitrogen + 25L Air Tank With pressure regulator and safety valve
6920.50.012	O2 sensor option (%)

#### Consumable

6930.00.140	Service Kit 8000H for CASTORE models
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