

# NG CASTORE 3G

## Membrane Nitrogen generator

The NitroGen series **NG CASTORE 3G** 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 26 L/min of compressed, dry and regulated air.

The NG CASTORE 3G with it's 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
- ✓ Generates Nitrogen on demand
- ✓ Designed to run 24 hours a day
- ✓ No electrical parts
- ✓ Low noise with no mechanical moving parts
- ✓ Low maintenance
- ✓ Wall or floor mounting



## Specifications



Models: NG CASTORE 3G	10	25	45	60
<b>N2 outlet (CURTAIN GAS)</b>				
Flow rate (Max)	10 l/min	25 l/min	45 l/min	60 l/min
Outlet pressure	Up to 7.5 bars			
Nitrogen purity (Inlet Pressure > 8 bar)	> 98.5% @ 10l/min > 99.5% @ 5l/min	> 98.5% @ 25l/min > 99.5% @ 10l/min	> 98.5% @ 45l/min > 99.5% @ 25l/min	> 98.5% @ 60l/min > 99.5% @ 45l/min
<b>AIR outlet (GAS1 / GAS2)*</b>				
Flow rate (Max)	26 l/min	26 l/min	26 l/min	26 l/min
Outlet pressure	Up to 7.5 bars			
<b>AIR outlet (EXHAUST)*</b>				
Flow rate (Max)	25 l/min	25 l/min	25 l/min	25 l/min
Outlet pressure	Up to 7.5 bars			
<b>Air inlet</b>				
Air inlet requirement	Particulate: <1 micron			
	Dewpoint: < -20°C (-4°F)			
	Oil: <0.01 mg/m <sup>3</sup>			
Flow rate (Max)	110 l/min	125 l/min	190 l/min	205 l/min
Supply pressure (min; Max)	8 bars; 10 bars			
Temperature (min; Max)	1°C (34°F) / 45°C(113°F)			
<b>General data</b>				
Net weight	<35 kg			
Dimensions (W x D x H)	280 x 350 x 1200 (mm)			
<b>Connections</b>				
GAS1 / GAS2 port	¼" BSPP female			
EXHAUST port	¼" BSPP female			
CURTAIN GAS port	¼" BSPP female			
Air Inlet port	¼" BSPP female			
Drain port	¼" BSPP female			
<b>Operating/storage conditions</b>				
Temperature	5-35°C (41-95°F)			
Humidity (Max)	80% at 25°C (77°F) (non condensing)			
Noise	No noise (no mechanical moving parts)			
IP rating	IP20			
Pollution degree rating	2 (with no aromatic compounds)			
Altitude	< 2000m			

### Ordering codes

#### Gas Generators

6920.51.010	CASTORE 3G 10
6920.51.025	CASTORE 3G 25
6920.51.045	CASTORE 3G 45
6920.51.060	CASTORE 3G 60

#### 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

#### Consumable

6930.00.140	Service Kit 8000H for CASTORE models
-------------	--------------------------------------



LNI Swissgas  
www.lni-swissgas.eu