

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	40	60
N2 outlet (CURTAIN GAS)				
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
AIR outlet (GAS1 / GAS2)*				
Flow rate (Max)	26 l/min	26 l/min	26 l/min	26 l/min
Outlet pressure	Up to 7.5 bars			
AIR outlet (EXHAUST)*				
Flow rate (Max)	25 l/min	25 l/min	25 l/min	25 l/min
Outlet pressure	Up to 7.5 bars			
Air inlet				
Air inlet requirement	Particulate: <1 micron Dewpoint: < 20°C (68°F) Oil: <0.01 mg/m ³			
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)			
General data				
Net weight	<25 kg			
Dimensions (W x D x H)	260 x 280 x 1200 (mm)			
Connections				
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			
Operating/storage conditions				
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
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NG CASTORE BASIC

Membrane Nitrogen generator
pneumatic controlled

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

The NitroGen series NG CASTORE BASIC 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%.

The NG CASTORE BASIC has been developed to meet specific requirements in terms of gas, flow, purity and pressure in LC-MS applications. It can be also used for the evaporation of solvents in samples being analysed.



Specifications



Models: NG CASTORE BASIC	10	25	45	60
N2 outlet				
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
Air inlet				
Air inlet requirement	Particulate: <1 micron Dewpoint: < 20°C (68°F) Oil: <0.01 mg/m ³			
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)			
General data				
Net weight	<25 kg			
Dimensions (W x D x H)	260 x 280 x 1200 (mm)			
Connections				
N2 Outlet port	¼" BSPP female			
Air Inlet port	¼" BSPP female			
Drain port	¼" BSPP female			
Operating/storage conditions				
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

6920.52.010	CASTORE BASIC 10
6920.52.025	CASTORE BASIC 25
6920.52.045	CASTORE BASIC 45
6920.52.060	CASTORE BASIC 60

Accessories

6920.50.000 50 L Nitrogen tank with pressure regulator and safety valve

Consumable

6930.00.140 Service Kit 8000H for CASTORE models



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NG CASTORE MP 4000

Gas station for Agilent hybrid system
pneumatic controlled with tanks

The NitroGen series CASTORE MP 4000 are Membrane Nitrogen Generators. They are engineered to transform standard compressed air into a safe and regulated supply of Nitrogen with a purity up to 99.9%.

An optional channel can provide up to 30 L/min of compressed, dry and regulated air.

The CASTORE MP 4000 with it's dual Nitrogen and Air outlets has been developed to meet specific requirements in term of gas, flow, purity and pressure for Agilent MP AES 4xxx series. It can be used for the evaporation of solvents in samples being analysed.

Main applications

- Agilent MP AES 4xxxx
- LCMS
- Solvent evaporation

Main advantages

- ✓ Nitrogen + Air generator for Agilent MP AES 4xxx
- ✓ Compatible with all LCMS
- ✓ Dual Nitrogen and Air generator
- ✓ Low noise with no mechanical moving parts
- ✓ Low maintenance
- ✓ Generates nitrogen on demand
- ✓ Designed to run 24 hours a day



Specifications



Model: NG CASTORE MP 4000

N2 outlet

Flow rate (Max)	30 l/min
Outlet pressure (min / Max)	2.0 bars / Inlet pressure – 1.0 bar
Nitrogen purity (Inlet Pressure >= 8 bar)	> 99.9 % @ 25 l/min > 99.7 % @ 30 l/min
Internal tank capacity	10 L + 10 L

Dry Air outlet

Flow rate (Max)	30 l/min
Outlet pressure	Inlet pres. - 1.0bar
Dew point	< -20°C (-4°F)
Internal tank capacity	10 l

Air inlet

Air inlet requirement	Particulate: <1 micron Dewpoint: < 5°C (41°F) Oil: <0.01 mg/m ³
Flow rate (Max)	170 l/min
Supply pressure (min / Max)	7 bars / 10bars
Temperature (min / Max)	1°C (34°F); 45°C(113°F)

General data

Net weight	<30 kg
Dimensions (W x D x H) mm	400 x 280 x 1200

Connections

N2 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	<25dB(A)
IP rating	IP20
Pollution degree rating	2 (with no aromatic compounds)
Altitude	< 2000m

Ordering codes

Gas Generators

6920.51.030D CASTORE MP4000

Consumable

6930.00.140 Service Kit 8000H for CASTORE models



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NG CASTORE PRO 120

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%.

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 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
N2 outlet					
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)	> 99.5 % @ 10 l/min		> 99.5 % @ 25 l/min		min
Dry Air outlet					
Flow rate (Max)	-	40 l/min	-	40 l/min	-
Outlet pressure	-	Inlet press. - 1bar	-	Inlet press. - 1bar	-
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)	115 l/min	155 l/min	135 l/min	175 l/min	150 l/min
Supply pressure (min; Max)	5 bars; 10bars				
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 – 1A				
Connection type	IEC320-C13				
Installation power (max)	25W (30VA)				
Fuse rating	2 x 1A -240Vac (5x20mm)				
Net weight	<30 kg		<35 kg		
Dimensions (W x D x H) mm	260 x 280 x 1200				
Connections					
N2 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	<25dB(A)				
IP rating	IP20				
Pollution degree rating	2 (with no aromatic compounds)				
Altitude	< 2000m				

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

Consumable

6930.00.140	Service Kit 8000H for CASTORE models
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NG CASTORE PRO

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	25	25-40	45	45-40	60
N2 outlet					
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)	> 99.5 % @ 10 l/min		> 99.5 % @ 25 l/min		min
Dry Air outlet					
Flow rate (Max)	-	40 l/min	-	40 l/min	-
Outlet pressure	-	Inlet press. - 1bar	-	Inlet press. - 1bar	-
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)	115 l/min	155 l/min	135 l/min	175 l/min	150 l/min
Supply pressure (min; Max)	5 bars; 10bars				
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 – 1A				
Connection type	IEC320-C13				
Installation power (max)	25W (30VA)				
Fuse rating	2 x 1A -240Vac (5x20mm)				
Net weight	<30 kg		<35 kg		
Dimensions (W x D x H) mm	260 x 280 x 1200				
Connections					
N2 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	<25dB(A)				
IP rating	IP20				
Pollution degree rating	2 (with no aromatic compounds)				
Altitude	< 2000m				

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

Consumable

6930.00.140	Service Kit 8000H for CASTORE models
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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
N2 outlet					
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)	> 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 press. - 1bar	-	Inlet press. - 1bar	-
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)	115 l/min	155 l/min	135 l/min	175 l/min	150 l/min
Supply pressure (min; Max)	5 bars; 10bars				
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 – 1A				
Connection type	IEC320-C13				
Installation power (max)	25W (30VA)				
Fuse rating	2 x 1A -240Vac (5x20mm)				
Net weight	<30 kg		<35 kg		
Dimensions (W x D x H) mm	260 x 280 x 1200				
Connections					
N2 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	<25dB(A)				
IP rating	IP20				
Pollution degree rating	2 (with no aromatic compounds)				
Altitude	< 2000m				

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

Consumable

6930.00.140	Service Kit 8000H for CASTORE models
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