

NG CASTORE 3G

Membrane Nitrogen generator

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 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.



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/m³ | | | |
| 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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