

# 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 120

#### N2 outlet

|                                             |                                    |
|---------------------------------------------|------------------------------------|
| Flow rate (Max)                             | 120 l/min                          |
| Outlet pressure (min; Max)                  | 2.0 bars; Inlet pressure – 1.5 bar |
| Nitrogen purity<br>(Inlet Pressure > 8 bar) | > 98.5 % @ 120 l/min               |

#### Air inlet

|                            |                              |
|----------------------------|------------------------------|
| Air inlet requirement      | Particulate: <1 micron       |
|                            | Dewpoint: < 5°C (41°F)       |
|                            | Oil: <0.01 mg/m <sup>3</sup> |
| Flow rate (Max)            | 290 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               | 1A -240Vac (5x20mm)     |
| Net weight                | <50 kg                  |
| Dimensions (W x D x H) mm | 350 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

6920.50.120 CASTORE PRO 120

##### Accessories

6920.50.000 50 L Nitrogen 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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