

# NG CASTORE XL (7040)

Membrane Nitrogen generator with  
Scroll compressor integrated.  
Electronic controlled

The NitroGen series **NG CASTORE XL** are Membrane Nitrogen Generators. They are engineered to transform standard compressed air into a safe, regulated supply of Nitrogen up to 70 L/min with a purity up to 99.8%. An optional channel can provide up to 40 L/min of compressed, dry and regulated air.

This NG series is equipped with a scroll built-in oil less compressor with inverter technology.

The exclusive electronic flow control combined with the compressor control by the inverter allows to generate Nitrogen with a higher purity using a smaller volume at less pressure of air which results in reduced energy costs and increase the life time of the compressor. Continuous control of the operating parameters of Nitrogen allows to maintain the system at its maximum efficiency.

The CASTORE XL 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
- Agilent MP AES

## Main advantages

- ✓ Compatible with all LCMS
- ✓ Dual Nitrogen and Air generator
- ✓ 200 cc/min UHP Nitrogen for collision cell
- ✓ Low noise
- ✓ Low maintenance
- ✓ Generates nitrogen on demand
- ✓ Exclusive electronic flow control
- ✓ Ultra silent technology: 58 dB(A)
- ✓ Reliable – No vibrations
- ✓ Designed to run 24 hours a day





## Specifications

| Models: NG CASTORE XL          | 20   | 40       | 70             | 20.40    | 40.40    | 20.60    |
|--------------------------------|--|----------|----------------|----------|----------|----------|
| N2 outlet                      |  |          |                |          |          |          |
| Flow rate (Max)                | 20 l/min   | 40 l/min | 70 l/min       | 20 l/min | 40 l/min | 20 l/min |
| Outlet pressure (Max)          | 10 Bar   |          |                |          |          |          |
| Nitrogen purity                | LCMS grade (up to 99.8%*1)   |          |                |          |          |          |
| Nitrogen for collision cell*2  | 200 cc/min @ 99.9999%*3  |          |                |          |          |          |
| Dry Air outlet                 |  |          |                |          |          |          |
| Flow rate (Max)                | -  |          |                | 40 l/min |          | 60 l/min |
| Outlet pressure (Max)          | -  |          |                | 10 Bar   |          |          |
| Dew point                      | -  |          |                | < -40°C  |          |          |
| Communication                  |  |          |                |          |          |          |
| LCD with touch screen          | Standard   |          |                |          |          |          |
| RS485                          | Standard   |          |                |          |          |          |
| RS232                          | For service  |          |                |          |          |          |
| General data                   |  |          |                |          |          |          |
| Power supply voltage           | Single phase 220-240 Vac 50/60 Hz<br>(100-115Vac 50/60Hz optional) |          |                |          |          |          |
| Connection type                | IEC C20  |          |                |          |          |          |
| Rated power (peak)             | 2.0 KW (3.0 KW)  |          | 2.2 KW (3.5KW) |          |          |          |
| Net weight                     | 135 kg (145Kg with 100-115Vac)                                     |          |                |          |          |          |
| Noise level                    | < 58 dB  |          | < 60 dB        |          |          |          |
| Dimensions (W x D x H) mm      | 590 x 790 x 740  |          |                |          |          |          |
| Connections                    |  |          |                |          |          |          |
| N2 outlet port                 | ¼" BSPP female   |          |                |          |          |          |
| Dry Air outlet 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)   |          |                |          |          |          |
| IP rating                      | IP20   |          |                |          |          |          |
| Pollution degree rating        | 2 (with no aromatic compounds)                                     |          |                |          |          |          |

\*1 The purity refers to the residual oxygen, depends on flow and working pressure

\*2 Optional, see below

\*3 The purity refers to the residual oxygen

### Ordering codes

#### Gas Generators

|            |                     |
|------------|---------------------|
| 6920.70.20 | NG CASTORE XL 20    |
| 6920.70.40 | NG CASTORE XL 40    |
| 6920.70.70 | NG CASTORE XL 70    |
| 6920.70.21 | NG CASTORE XL 20.40 |
| 6920.70.41 | NG CASTORE XL 40.40 |
| 6920.70.22 | NG CASTORE XL 20.60 |

#### Accessories

|            |                               |
|------------|-------------------------------|
| 6920.71.30 | Box with 2 pressure regulator |
| 6920.71.40 | Box with 3 pressure regulator |

#### Options

|             |   |
|-------------|---|
| 6920.71.10  | Module for 100-115Vac 50/60Hz                           |
| 6920.71.20  | Electronic pressure control                             |
| 6920.71.50  | WiFi Module   |
| 6920.71.60  | Parallel Controller Box with LAN port for NG CASTORE XL |
| 6920.50.012 | O2 sensor option (%)                                    |
| 6920.71.80  | Carbon column for NG CASTORE XL                         |
| 6920.71.90  | Ultra High Purity N2 module 200 cc/min                  |

#### Consumable

|             |   |
|-------------|---|
| 6930.00.141 | Service Kit 8000H for NG CASTORE XL models  |
| 6930.00.147 | Replacement carbon column for NG CASTORE XL |