

Brezza by CLAI ND

# NiGen GC



*“When technology and innovation come together in Ultra High Purity”*

**Nitrogen Generator**



## MODELS

NiGen GC

NiGen GC HC

- ✓ High purity nitrogen guaranteed by the **PSA technology**
- ✓ **CLAIND "Fast Purity" patent** which allows high purity nitrogen delivery in a very short time
- ✓ **UHP PSA technology** available in a standard version and the HC version which ensures 100% removal of hydrocarbons (HCT < 0,1 ppm for applications with high-sensitivity detectors)
- ✓ **Parallel connection** up to 4 stacked generators with tower configuration
- ✓ **CPU with Touch Screen Display**



## FEATURES

- **Modular configuration**
- **Ability to serve up to 12 FIDs/NPDs with makeup gas or up to 7 ECDs oppure 5 S/S**
- Facility for integration with a Brezza series dedicated air compressor (AirComp)
- Fast Start included to guarantee UHP after only 30' functioning
- **CPU with Touch Screen Display connectable with CAN-BUS** to the generators (up to 32 units), which allows the monitoring of the operational status
- The CPU has also an Ethernet output for the connection to PCs



## APPLICATIONS

Gas Chromatography (Carrier gas, Make-up, ECD),  
Thermo Analysis



## TECHNICAL SPECIFICATIONS

|                                 |  |
|---------------------------------|--|
| FLOW RATE                       | 500 Nml/min $\pm$ 10% a 2000 m slm   |
| TECHNOLOGIES EMPLOY             | PSA CLAIND   |
| OUTPUT PRESSURE                 | 0 - 6 bar/0 - 87 psi $\pm$ 3%  |
| PURITY                          | > 99,9995 %  |
| MOISTURE                        | < -50 °C dew-point ATP $\pm$ 2°C ATP   |
| AIR INPUT CHARACTERISTICS       | Particulate $\leq$ 0,01 mm<br>Oil vapors $\leq$ 0,01 mg/m <sup>3</sup><br>Moisture $\leq$ 3° C dew point ATP<br>min pressure: 8 bar<br>Air flow rate: 6 NI/min |
| ELECTRICAL SUPPLY x NiGen GC    | 115/230 Vac $\pm$ 10% 60-50 Hz 50 w  |
| ELECTRICAL SUPPLY x NiGen GC HC | 115 Vac $\pm$ 10% 60 Hz 200 W<br>230 Vac $\pm$ 10% 50 Hz 200 W   |
| INDEX OF PROTECTION             | IP20   |
| NOISE                           | < 50 dBA for the 98% of operation time<br>< 60 dBA for 2 sec. each cycle   |
| OPERATING TEMPERATURE           | 5°C - 40°C/40°F - 100°F  |
| ENVIRONMENTAL HUMIDITY          | max 90% without condensation   |
| MAX ALTITUDE                    | 2000 m slm   |
| DIMENSIONS                      | Height: 40 cm + 7 cm/15.8" + 2.8"<br>Width: 38 cm/14.9"<br>Depth: 53 cm/20.8"  |
| WEIGHT                          | GC version: 28 kg/62 lbs<br>GC HC version: 32 kg/70.5 lbs  |
| PNEUMATIC CONNECTIONS           | Compressed air inlet: G 1/8" female<br>Nitrogen outlet: G 1/8" female  |
| WARRANTY                        | 2 years  |

## TECHNOLOGY

PSA technology (Pressure Swing Adsorption) - Fast Purity® process

## CERTIFICATIONS



PSA with CMS and international patent **FAST PURITY®**





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