

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** that allows the delivery of high purity nitrogen 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**
- **Facility 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
- very high purity also guaranteed by an innovative control software, interfaced with the CPU or every PC for remote control, up to 32 units
- **CPU with Touch Screen Display connectable with CAN-BUS to the generators (up to 32 units)**, allows the monitoring of operational status and menus with report alarms and functioning parameters.
- 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 Oil vapors $\leq$ 0,01 mg/m <sup>3</sup> Moisture $\leq$ 3° C dew point ATP min pressure: 8 bar 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 230 Vac $\pm$ 10% 50 Hz 200 W
INDEX OF PROTECTION	IP20
NOISE	< 50 dBA for the 98% of operation time < 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" Width: 38 cm/14.9" Depth: 53 cm/20.8"
WEIGHT	GC version: 28 kg/62 lbs GC HC version: 32 kg/70.5 lbs
PNEUMATIC CONNECTIONS	Compressed air inlet: G 1/8" female Nitrogen outlet: G 1/8" female

## TECHNOLOGY

PSA technology (Pressure Swing Adsorption)  
Fast Purity® process

## CERTIFICATIONS



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





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