



CLAIND

GAS GENERATORS AND PURIFIERS

NIGEN LCMS



*“Style and innovation
have given birth to the
UHP N2 for reliable
spectrums”*

NITROGEN GENERATOR



MODELS

NiGen LCMS 40.1

NiGen LCMS 100

- ✓ Designed to satisfy the needs of **all LCMS analyzers** on the market
- ✓ The **PSA technology** with molecular sieves, used in the NiGen series, are drastically reducing the O₂ and H₂O residual but also the HC presence in the air, offering an extremely pure nitrogen output (phthalate-free)
- ✓ **Built-in oil free compressor** with two 50 l. internal tanks, one for compressed air and the other for nitrogen
- ✓ **Highly reliable air compressor** which requires a **maintenance** only after 16,000 hours of work
- ✓ **2 gas outlets** available: UHP Nitrogen and Oil Free Air

FEATURES

- Able to supply up to 4 LC-MS analysers
- 40-1 version with special built-in full oil-free compressor
- Extremely silent thanks to special sound-proofing and antivibration measures
- Low maintenance
- Thanks to the CPU with touch screen display, the monitoring of operational status is guaranteed. The CPU has also an Ethernet output for the connection to PCs and to Internet through a router

APPLICATIONS

LCMS
Sample preparation



TECHNICAL SPECIFICATIONS

FLOW RATE	NiGen LCMS 40-1 : 38 NI/min \pm 10% a 2000 m slm NiGen LCMS 100 : 100 NI/min \pm 10% a 2000 m slm
TECHNOLOGIES EMPLOY	PSA CLAIND
OUTPUT PRESSURE	0 - 7 bar / 0 - 100 psi (8 bar on demand)
PURITY	up to 99.9% (\leq 50°C dew point)
COMPRESSOR	Only in the version 40-1
AIR INPUT CHARACTERISTICS	Particulate \leq 0,01 μ m Oil vapors \leq 0,01 mg/m ³ Moisture \leq 3° C dew point min pressure: 8.5 bar/120 psi max pressure: 10 bar/145 psi min flow NiGen LCMS 100: 250 NI/min
ELECTRICAL SUPPLY x LCMS 100	115/230 Vac \pm 10% 60/50 Hz 50 W
ELECTRICAL SUPPLY x LCMS 40-1	115 Vac \pm 10% 60 Hz 1,9 kW 230 Vac \pm 10% 50 Hz 1,6 kW
INDEX OF PROTECTION	IP20
NOISE	< 50 dBA during the stand by of the compressor < 65 dBA with compressor running
OPERATING TEMPERATURE	5°C fino 35°C (41°F fino 95°F)
ENVIRONMENTAL HUMIDITY	max 90% without condensation
MAX ALTITUDE	0÷2000 m slm
DIMENSIONS	Height: 132 cm/52" Width: 44 cm/17.3" Depth: 110 cm/43.3"
WEIGHT	version 40-1 220 kg/489 lbs version 100 200 kg/444 lbs
PNEUMATIC CONNECTIONS	Compressed air inlet: G 1/4" female Nitrogen outlet: G 1/4" female
WARRANTY	2 years

TECHNOLOGY

PSA technology (Pressure Swing Adsorption) - Fast Purity CLAIND patent

CERTIFICATIONS



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





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