

NiGen LCMS

**Nitrogen Generators
for LCMS and
Sample Preparation**



**NiGen LCMS 40.0
NiGen LCMS 40.1
NiGen LCMS 100**

NiGen LCMS 40.0/40.1/100

FEATURES

- able to supply up to 4 LC-MS analysers
- the Carbon Molecular Sieves (CMS) utilised in PSA technology allow almost total adsorption of hydrocarbons: high efficiency hydrocarbon removal columns included
- HF-1 version with special built-in full oil-free compressor
- the 50 lt each of air and nitrogen internal storage tanks mean less frequent air compressor starts, hereby reducing noise levels and maintenance requirements
- extremely quiet thanks to special sound-proofing and antivibration measures
- maintenance of the compressor required after 14.000 functioning hours
- facility for connection to the factory compressed air line in the -0 version (without compressor)
- 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 and to Internet through a router
- software available for remote monitoring via internet
- equipped with full turn wheels for easy moving
- air and nitrogen outputs in LCMS version for Applied Biosystems
- nitrogen and UHP nitrogen outputs in LCMS version for Agilent Jet Stream/collision cell



NiGen LCMS 40.0/40.1/100

CUSTOMIZED SOLUTIONS FOR



**N2 to CURTAIN & CAD
Dry Air to EXHAUST
NEBULIZATION & AUXILIARY**

APPLIED BIOSYSTEMS
all models



**N2 to CURTAIN & CAD
Dry Air to EXHAUST
NEBULIZATION & AUXILIARY**

APPLIED BIOSYSTEMS
Q & 2/3000



**N2 to interface
UHP N2 to Collision Cell**

AGILENT models



N2 to interface

**THERMO, WATERS, SHIMADZU,
VARIAN, BRUKER models**

NiGen LCMS 40-0/40-1/100

TECHNICAL FEATURES

FLOW RATE	40/100 NI/min
TECHNOLOGIES EMPLOYED	PSA CLAIND
OUTPUT PRESSURE	0 - 7 bar/0 - 100 psi
PURITY	98% to 99.9%
COMPRESSOR	only in the 40-1 version
AIR INPUT CHARACTERISTICS x 40-0 e 100	particulate $\leq 0,01 \mu\text{m}$ oil vapors $\leq 0,01 \text{ mg/m}^3$ moisture $\leq 3^\circ \text{C}$ dew point in pressure min pressure 8.5 bar/120 psi max pressure 10 bar/145 psi min flow rate x 40-0: 100 NI/min min flow rate x 100: 250 NI/min
ELECTRICAL SUPPLY LCMS 40-0/100	115/230 Vac $\pm 10\%$ 60/50 Hz 100 W
ELECTRICAL SUPPLY LCMS 40-1	115 Vac $\pm 10\%$ 60 Hz 1,5 kW 230 Vac $\pm 10\%$ 50 Hz 1,2 kW
INDEX OF PROTECTION	IP20
OPERATING TEMPERATURE	5°C - 40°C/40°F - 104°F
ENVIRONMENTAL MOISTURE	$\leq 80\%$
MAX ALTITUDE	2000 m asl
DIMENSIONS	
height	130 cm/51.1"
width	44 cm/17.3"
depth	110 cm/43.3"
WEIGHT	
40.0 version	130 kg/ 286 lbs
40-1 version	150 kg/330 lbs
100 version	150 kg/330 lbs

ACCESSORIES

- AB pressure regulator kit
- UHP available nitrogen purifier for Agilent collision cell on Jet Stream LC-MS
- Inlet air coalescing filter
- 3 point pressure regulator kit
- Installation kit
- Automatic 2 sources switch kit

