



# Leman Instruments

## NITRO20LCMS -- N2 STATION FOR AGILENT 6400 SERIES



# N2

### APPLICATION

- ✓ **N2 Generator for AGILENT 6400 Triple Quad LC/MS**
  - Nebulizer and drying gas
  - Collision cell gas

### DESCRIPTION

**LEMAN-Instruments** designed the **NITRO20LCMS** product line of **Nitrogen Generator** to meet the Nitrogen flows, purities and pressures required by the AGILENT 6400 SERIES TRIPLE QUAD LC/MS.

**Functioning Principle** : Partially dried compressed Air is provided by the internal oil-free scroll, low noise and low vibration compressor module. Based on the field proven single stage Pressure Swing Adsorption (PSA) technology, Nitrogen is then extracted from AIR by a set of filters filled up with CMS. After the extracting process, nebulizer and drying N2 with purity >99% is filtered from HC down to < 0.1ppm through a catalytic oven and then stored in a tank. Collision cell N2 stream, (>99.999%) is produced by a second step purification process. Output lines are regulated to the set values and filtered of remaining particulates down to 0.1µm. The NITRO20LCMS line is equipped with a Power Economy Function which switches off the compressor when consumption is reduced or stopped.

Models with outflows of **18, 35 and 55 L/min** N2 are available.

Each instrument is equipped with high performance communication interfaces RS485 and USB, (Ethernet, WLAN as options) to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation and reliable communications, the **NITRO20LCMS Nitrogen Generators** are easy to install, reliable, safe and pleasant to operate.

### BENEFITS

- ✓ Reduces in operation costs. Return on investment within 18 months. Integrated Power Economy function.
- ✓ N2 sources available 24/7 at constant purity. No contamination.
- ✓ Independent sources of High Purity N2.
- ✓ Integrated oil-free scroll Air compressor with Air treatment. Can be easily moved around the laboratory.
- ✓ Low functioning noise
- ✓ Remote control from PC, I-phone and I-pad.(options)
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.
- ✓ Internal maintenance free. Long life compressor.

# N2 STATION FOR AGILENT 6400 SERIES

## SPECIFICATIONS

<b>Models</b>	<b>NITRO20LCMS-18, NITRO20LCMS-35 and NITRO20LCMS-55</b>
N2 capacities @ 1013/20°C	Output 1 : NITRO20LCMS-18= 18 L/min ; NITRO20LCMS-35= 35 L/min NITRO20LCMS-55= 55 L/min Output 2 : NITRO20LCMS-xx= 1 NI/min
N2 purities	Output 1 : >99% N2 , HC< 0.1ppm Output 2 : >99.999% N2, HC <0.1ppm
Output Pressures	Outlet 1 : From 4 to 7.5 bar, adjustable by user . (60 to 110psig) Outlet 2 : from 1 to 5 bar, adjustable by user. (15 to 72psig)
Compressed AIR	Supplied by internal Oil free scroll compressor. Automatic drying. Power Economy function.
Manual control	Through a 4.3" TFT-LCD color display with touch screen, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control	<ul style="list-style-type: none"> <li>■ USB. RS485 (Mod-Bus) or Display.</li> <li>■ Trough Ethernet 10/100 network (option)</li> <li>■ Trough WLAN network, with PC, I-Phone, tablet (option)</li> <li>■ Log book download by USB.</li> </ul>
Outlet fittings	Outlet1--nebulizer+drying gas : Stainless steel 1/4" compression Outlet2-- collision cell gas : Stainless steel 1/8" compression
Noise level	< 59 dBA @ 1m
Power supply	100 to 120 VAC 50-60 Hz or 220 to 240VAC, 50 to 60 Hz
Power consumption	NITRO20LCMS-18 and -35: max.1500W; NITRO20LCMS-55: max. 2200W
Dimensions	W=60cm/23.6ins, H=120cm/41ins, D=80cm/31.5ins
Weight (net)	NITRO20LCMS-18 and -35: 85Kg (200lbs), NITRO20LCMS-35:120Kg (230lbs),
Certification	CE

## ORDERING NUMBERS

Model	Article #
NITRO20LCMS-18-230	755312
NITRO20LCMS-35-230	755322

Model	Article #
NITRO20LCMS-55-230	755332

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