

# Nitrogen Generator for LC-MS / LC-MS-MS (PSA Technology)



NG02L / NG02L (PSA Based)

- Nitrogen Generator produces a continuous flow of high purity Nitrogen at selected pressure.
- The modular pressure swing adsorption (PSA) unit operates with alternating pressure increase and decrease.
- Untreated air flows under pressure through the reaction towers containing carbon molecular sieves adsorber. Moisture, CO, CO<sub>2</sub>, HC, Oxygen and other unwanted components in the air are adsorbed, leaving Nitrogen Gas of required purity.
- During the desorption cycle, the trapped substances adsorbed are released again at low pressure and the adsorber is ready for next cycle.
- Flow range available from 10 LPM to 100 LPM.
- Microcontroller digital display.

Principle Specification	For LC-MS (NG-02L)	For LC-MS-MS (NG-02LS (for Sciex model))
Moisture	2 ppm	2 ppm
Total Hydro Carbon	< 0.5 ppm	< 0.5 ppm
CO & CO <sub>2</sub>	< 2 ppm	< 2 ppm
Purity	99.9%	99.9%
Micro Particulates	< 0.01μ	< 0.01μ
Capacity of N <sub>2</sub> Generator	35 LPM at 100 psig (as per selection of model)	12 LPM at 60 psig (pure nitrogen) 18 LPM at 100 psig ( filtered zero air) 18 LPM at 60 psig (purified dry air)
Method of purification	Pressure Swing Adsorption (PSA)	Pressure Swing Adsorption (PSA)
Room temperature	20 °C to 30 °C	20 °C to 30 °C
Start up time	1 hrs / programmable timer	1 hrs/ programmable timer
Electrical requirements without Compressor	230 V AC, 50 Hz, 1 Ph, 2 Amp	230 V AC, 50 Hz, 1 Ph, 2 Am p
Dimension of N <sub>2</sub> Generators in mtr.mm (without compressor) (approx.)	800H X 400W X 900D	1000H X 400W X 1000D
Net Weight (without compressor) (approx.)	100 kg (as per selection of model)	150 kg (as per selection of model)
Gas Outlet Port	6 mm PU	6 mm PU

## Installation Diagram for Nitrogen Generator for LCMS / LCMSMS (PSA Technology)

