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

- 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, CO2, THC, O2 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 10 LPM and above.
- Microcontroller digital display.

NG02LS / Sciex Model

Principle Specification	For LC-MS (NG-02L)	For LC-MS-MS (NG-02LS (for Sciex model)
Moisture	5 ppm	5 ppm
Total Hydro Carbon	< 0.5 ppm	< 0.5 ppm
CO & CO2	< 2 ppm	< 2 ppm
Purity	99.9%	99.9%
Micro Particulates	< 0.01µ	< 0.01µ
Capacity of N Generator	6 to 30 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	5 °C 25 °C	5 °C 25 °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 N2 Generators in mtr. (without compressor) (approx.)	1.5H x 0.8W x 0.8D (approx)	2H x 1W x 1D (approx)
Net Weight (without compressor) (approx.)	100 kg - 200kg (as per selection of model)	100 kg - 200 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)

Air Compressor — Prefilter — Air Dryer — After filter — N2 Generator — Receiver Tank — Outlet