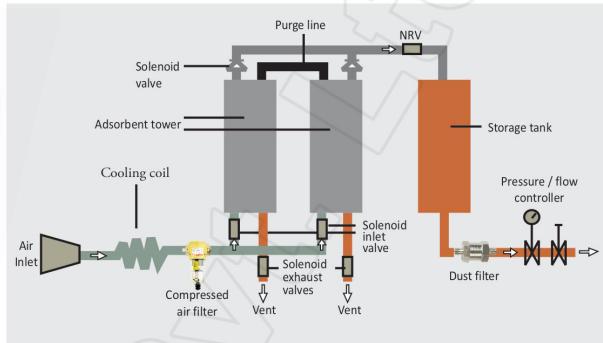


Nitrogen-Air Combination Generator for 5 GC & TOC Model: NAG-01+TOC



Schematic Diagram of Nitrogen Generator & Zero Air Generator



- Nitrogen & Air 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.
- Air flows under pressure through the reaction towers containing molecular sieve adsorber.
- Moisture, CO, CO₂, THC, Oxygen and other unwanted components in the air are adsorbed, leaving Zero Air & Nitrogen Gas of required purity.
- Nitrogen & Air combination generator is compact (2 in 1) & also cost effective and the compressor for generating both the gases is common.

Nitrogen-Air Combination Generator for 5 GC & TOC Model: NAG-01+TOC

Principle Specification	N2 Specification for GC	Zero Air Specification for GC	Zero Air Specification for TOC
Moisture	< 5 ppm	< 5 ppm	< 0.3 ppm
Oxygen	< 5 ppm	—	—
Total Hydrocarbon	< 0.5 ppm	< 0.1 ppm	< 0.1 ppm
Purity	UHP (GC grade)	UHP (GC grade)	UHP (TOC grade)
CO & CO ₂	< 2 ppm	< 2 ppm	< 0.2 ppm
Micron particulates	0.01 μ	0.01 μ	0.01 μ
Capacity	500 ml/min a 5 kg/cm ²	4000 ml/min a 5 kg/cm ²	500 ml/min a 5 kg/cm ²
Method of purity	Pressure Swing Adsorption (PSA) & Depressurisation	Pressure Swing Adsorption (PSA)	Pressure Swing Adsorption (PSA) & HC Cracking Furnace
Room temperature	5 °C - 25 °C	5 °C - 25 °C	5 °C - 25 °C
Start-up time	2 hr / programmable by Timer	10 min	30 min
Electrical requirement	230 V AC, 50 Hz, 1 ph	230 V AC, 50 Hz, 1 ph	230 V AC, 50 Hz, 1 ph
Size of NG	400(W) x 700(H) x 700(D) mm	400(W) x 700(H) x 700(D) mm	400(W) x 700(H) x 700(D) mm
Weight	55 kg (approx)	55 kg (approx)	55 kg (approx)
Weight	60 kg (approx)		60 kg (approx)