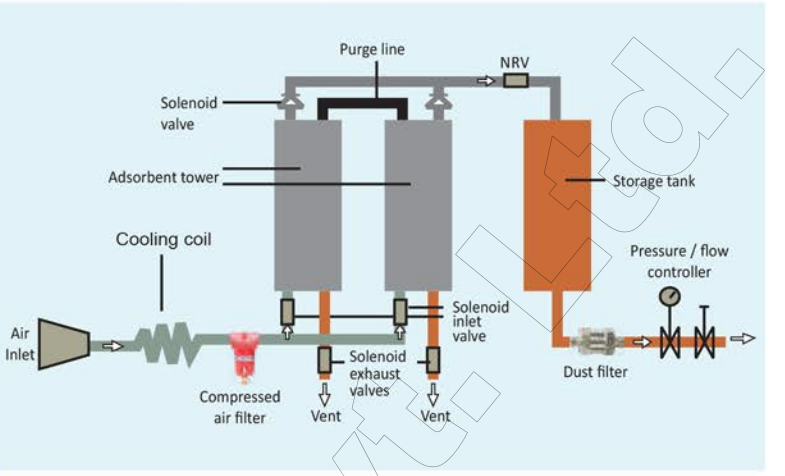
Nitrogen-Air Combination Generator for GC Model: NAG-01/NAG-01A/NAG-01(M)

Schematic Diagram of Nitrogen Generator & Zero Air Generator



Model : NAG-01 / NAG-01A / NAG-01M

- 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, CO, 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 2 GC & 5 GC Model

PRINCIPLE SPECIFICATION	For 2 GC model NAG - 01 A		For 2 GC model NAG - 01 A	
	N2 Specification	Zero Air Specification	N2 Specification	Zero Air Specification
Moisture	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm
Oxygen	< 5 ppm	-	< 5 ppm	–
Total Hydrocarbon	0.5 ppm	0.3 ppm	0.5 ppm	0.3 ppm
Purity	UHP (GC grade)	UHP (GC grade)	UHP (GC grade)	UHP (GC grade)
CO & Co2	< 2 ppm	< 2 ppm	< 2 ppm	< 2 ppm
Micron Particulates	0.01 µ	0.01 µ	0.01 µ	0.01 µ
Capacity	200 ml/min at 80 Psi	1500 ml/min at 80 psi	500 ml/min at 80 psi	4000 ml/min at 80 Psi
Method of purity	Pressure Swing Adsorption (PSA)	Pressure Swing Adsorption (PSA)	Pressure Swing Adsorption (PSA)	Pressure Swing Adsorption (PSA)
Air Compressor	Inbuilt		External	
Start-up time	2 hr / programmable by Timer	10 min	2 hr / programmable by Timer	10 min
Electrical requirement	230 V AC, 50 Hz, 1 ph	230 V AC, 50 Hz, 1 ph	230 V AC, 50 Hz, 1 ph	230 V AC, 50 Hz, 1 ph
Dimension (in mm)	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	400(W) x 700(H) x 700(D) mm
Weight	60 kg (approx)		60 kg (approx)	
Gas Outlet Port	1/8" OD	1/8" OD	1/8" OD	1/8" OD

Nitrogen-Air Combination Generator for 2 GC & 5 GC Model : NAG01+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	0.3 ppm	< 0.1 ppm
Purity	UHP (GC grade)	UHP (GC grade)	UHP (TOC grade)
CO & CO2	< 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/cm²	4000 ml/min a 5 kg/cm²	500 ml/min a 5 kg/cm²
Method of purity	Pressure Swing Adsorption (PSA) & Depressurisation	Pressure Swing Adsorption (PSA)	Pressure Swing Adsorp⊠on (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)
Gas Outlet Port	1/8" OD	1/8" OD	1/8" OD