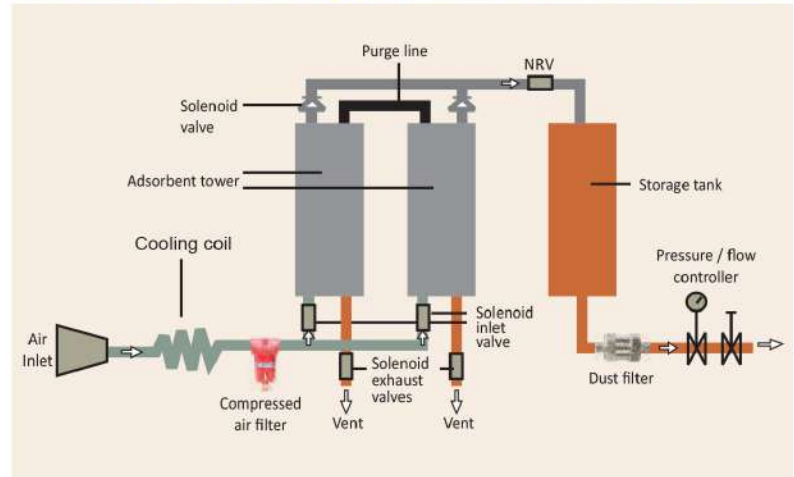


Schematic Diagram of Nitrogen Generator & Zero Air Generator



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

- Nitrogen & Air Generator produces a continuous flow of high purity Nitrogen & Zero Air 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, HC, Oxygen and other unwanted components in the air are adsorbed, leaving Nitrogen Gas of required purity & in another set of towers Moisture, CO, CO₂, HC and other unwanted components in the air are adsorbed, leaving Zero Air Gas.
- 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 5 GC model NAG - 01 | |
|-------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | N2 Specification | Zero Air Specification | N2 Specification | Zero Air Specification |
| Moisture | < 2 ppm | < 2 ppm | < 2 ppm | < 2 ppm |
| Oxygen | < 5 ppm | - | < 5 ppm | - |
| Total Hydrocarbon | 0.5 ppm | 0.3 ppm | 0.5 ppm | 0.3 ppm |
| Purity | 99.999% UHP (GC grade) | 99.999% UHP (GC grade) | 99.999% UHP (GC grade) | 99.999% 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 | 1 hr / programmable by Timer | 10 min | 1 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) | 750H x 220W x 800D | | 750H x 220W x 800D | |
| Weight | 60 kg (approx) | | 75 kg (approx) | |
| Gas Outlet Port | 1/8" OD | 1/8" OD | 1/8" OD | 1/8" OD |
| Dew Point | -65 °C | -65 °C | -65 °C | -65 °C |

Installation Diagram for Nitrogen Generator for 5 GC & above with External Compressor

