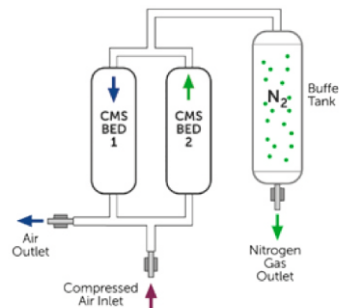




Optional

Dew Point Sensor

Features

- Simple structure, compact design, full automated operation
- Replaces manifold usage
- Touch Screen HMI for controlling the complete system
- HMI Screen for monitoring and visualizing the progress
- Rapid start-up and safety system
- Superior silencer design gives low noise levels during depressurization and purge
- Durable piston valves for long-life operation
- On demand production, low cost
- High performance
- *The purity and capacity of nitrogen gas is designed to meet customer requirements (Nitrogen Purity 95%~99.999% is available)
- Minimum maintenance cost.

PSA NITROGEN GENERATORS

Pressure Swing Adsorption (PSA) type Nitrogen Generation system that is used to separate and enrich Nitrogen from Oxygen employs CMS (Carbon Molecular Sieve) for adsorbent. Carbon Molecular Sieve (CMS) adsorbs Oxygen and Water Vapor molecules under certain pressure while allowing Nitrogen to pass through.

The Nitrogen Generator is a Two-Bed Adsorber System

The Nitrogen Generator consists of two adsorber vessels filled with CMS, a valve assembly, air filters, main pressure regulator, and a product receiver tank. Clean and dry air is directed to one of the adsorber beds where oxygen and water vapor is adsorbed faster than nitrogen in the pore structure of the CMS, thus increasing the nitrogen purity of the product gasstream to the desired level (95-99.999% as required by customer). This product flows out from the top of the adsorber bed, through the valve and into the product receiver at a pressure slightly below the feed air pressure.

Applications

Metal industry

Chemical industry

Plastic industry

Automotive Industry

Production process and storage of food

Standard

Oxygen Analyzer / Nitrogen Purity Sensor
Flow Meter
Carbolescer with oil indicator
Nitrogen Generator/ Silencer
Basic Logo or Crouzet mini plc for modular type
Siemens HMI colortouch screen for twin towers
Buffer Tank (Standard for MNG 10 to MNG 2050)
T Filters are standard in all models



Replaces Manifold Usage



Touch Screen HMI



Dew Point Sensor



Long Life Piston Valve



Air Filter

Technical Specifications

Model	Air Demand @ Following Purity Level (m³/h)								
	95%	97%	98%	99%	99.50%	99.90%	99.95%	99.99%	99.999%
VNG-10	5.6	5.0	4.5	4.0	3.6	3.1	2.8	2.5	2.0
VNG-20	9.0	8.0	7.3	6.4	6.2	5.0	4.5	4.0	3.3
VNG-35	16.6	14.8	13.4	11.8	10.8	9.1	8.3	7.4	6.0
VNG-60	27.6	24.6	22.4	19.6	17.9	15.2	13.8	12.3	10.0
VNG-95	47.5	42.4	38.5	33.7	30.9	26.2	23.7	21.1	17.2
VNG-120	63.4	56.6	51.4	45.1	41.3	35.0	31.7	28.2	23.0
VNG-150	77.6	69.2	62.9	55.1	50.5	42.9	38.8	34.5	28.1
VNG-250	123.5	110.2	100.1	87.7	80.4	68.3	61.7	55.0	44.8
VNG-330	163.5	145.8	132.5	116.1	106.4	90.3	81.7	72.7	59.3
VNG-450	220.9	197.0	179.1	156.9	143.8	122.1	110.4	98.3	80.1
VNG-510	253.0	225.7	205.1	179.8	164.7	139.8	126.5	112.6	91.7
VNG-570	281.0	250.6	227.8	199.6	182.9	155.3	140.5	125.1	101.9
VNG-730	367.8	328.1	298.2	261.3	239.3	203.3	183.9	163.7	133.3
VNG-910	450.0	401.3	364.8	319.6	292.8	248.7	224.9	200.2	163.1
VNG-1110	547.0	487.9	443.5	388.6	355.9	302.3	273.4	243.4	198.3
VNG-1230	603.4	538.2	489.2	428.7	392.7	333.5	301.6	268.5	218.8
VNG-1370	668.6	596.4	542.1	475.0	435.1	369.5	334.2	297.6	242.4
VNG-1820	904.1	806.3	732.9	642.2	588.3	499.6	451.9	402.3	327.7
VNG-2050	1054.7	940.3	854.7	748.9	686.0	582.6	527.0	469.2	382.2
VNG-2550	1263.9	1127.2	1024.6	897.8	822.4	698.4	631.8	562.5	458.2
VNG-2950	1558.9	1390.4	1263.8	1107.4	1014.4	861.5	779.2	693.8	565.1
VNG-3540	1827.0	1629.5	1481.1	1297.8	1188.8	1009.6	913.2	813.1	662.3
VNG-4160	2106.8	1879.0	1708.0	1496.6	1370.9	1164.2	1053.1	937.6	763.7
VNG-5560	2536.2	2261.9	2056.0	1801.7	1650.1	1432.9	1267.6	1128.5	920.0
VNG-6050	3218.5	2816.3	2558.4	2239.8	2058.9	1745.0	1581.7	1400.0	1129.5
VNG-7500	3829.0	3350.4	3043.6	2664.6	2449.3	2075.9	1881.7	1665.5	1343.7
VNG-9170	4183.1	3730.6	3390.9	2971.3	2720.7	2363.4	2091.0	1861.3	1516.7
VNG-11200	5108.8	4556.4	4142.5	3629.1	3323.3	2886.8	2553.8	2273.7	1851.7

	95%	97%	98%	99%	99.50%	99.90%	99.95%	99.99%	99.999%
A/N Ratios	2	2.3	2.4	2.7	3	4	4.1	5.2	8.4

Given flows are at 7 barg pressure with reference to 20°C and 1 bar atmospheric air suction as per ISO7183.

