

0,4-286,3
Nm³/h



MODULAR NITROGEN GENERATORS

Nitrogen is separated from oxygen and enriched with the Carbon Molecular Sieve (CMS) adsorbent used in Hertz Pressure Swing Adsorption (PSA) type Nitrogen generators. Carbon Molecular Sieve (CMS) allows nitrogen to pass through the line by adsorbing oxygen and water vapor molecules under a certain pressure.

Hertz Nitrogen Generator has a compact structure through multiple modules filled with Carbon Molecular Sieve.

Clean and dry air is directed to the modules in a sequential manner for the adsorption process. The Carbon Molecular Sieve (CMS) in the modules adsorbs oxygen and water vapor molecules and keeps them in its pores, allowing nitrogen molecules to pass through. Thus, nitrogen gas is produced (Purity levels can be between 95-99.999% depending on the areas of use and customer expectations).



Advantages

- Compact design, full automated operation
- Replaces manifold usage
- New design silencer that operates at lower noise levels during pressurization and purge
- High performance
- The purity and capacity of nitrogen gas is designed to meet customer requirements
(Nitrogen Purity 95%~99.999% is available)
- Durable piston valves for long-life operation
- Minimum maintenance cost
- Lower air-to-nitrogen (A/N) ratios and energy consumption
- High-sensitive sensor technologies
- Effective integrated filtration



Standard

- Nitrogen Modules
- Silencer
- Mini PLC
- Manometers
- Pressure Transmitter
- ECO Mod
- T Filter
- Piston Valves
- Valve Control Regulator
- Valve Control Regulator



Optional

- Dew Point Sensor Kit
- Flowmeter Kit
- Oxygen Analyzer Kit
- 3-Way By-Pass Valve Kit
- HMI Color Touch Screen PLC
- Buffer Tank
- Oil Indicator

Model	Free Nitrogen Delivery @ following purity level (Nm³/h)									
	95%	97%	98%	99%	99,5%	99,90%	99,95%	99,99%	99,995%	99,999%
HNG MOD 20	4,3	3,9	3,3	2,8	2,1	1,7	1,6	0,7	0,7	0,4
HNG MOD 40	7	6,3	5,4	4,6	4,1	2,8	2,5	1,2	1,1	0,7
HNG MOD 70	12,9	11,5	9,9	8,4	7,2	5,1	4,7	2,2	2,1	1,3
HNG MOD 123	21,5	19,2	16,5	14	12,3	8,5	7,8	3,7	3,5	2,2
HNG MOD 210	37	33,1	28,5	24,2	21,3	14,6	13,5	6,3	6	3,8
HNG MOD 285	49,4	44,2	38	32,3	28,5	19,4	18	8,5	8	5
HNG MOD 340	60,4	54,1	46,5	39,5	34,9	23,8	22	10,3	9,7	6,1
HNG MOD 555	96,1	86	74	62,8	55,5	37,9	35	16,5	15,5	9,8
HNG MOD 735	127,2	113,8	98	83,2	73,5	50,1	46,3	21,8	20,5	12,9
HNG MOD 990	172	153,8	132,4	112,4	99,3	67,7	62,6	29,5	27,7	17,5
HNG MOD 1130	197	176,2	151,7	128,7	113,7	77,6	71,7	33,7	31,8	20
HNG MOD 1260	218,8	195,7	168,4	143	126,3	86,2	79,7	37,5	35,3	22,2
HNG MOD 1650	286,3	256,1	220,4	187,1	165,3	112,8	104,3	49	46,2	29,1

Ambient Temperature (°C)	Correction Factor (Kt)
5	0,85
10	1
15	1
20	1
25	1
30	0,91
35	0,82
40	0,74
45	0,60

Inlet Pressure (Barg)	Correction Factor (Kp)
5	0,68
5,5	0,73
6	0,79
6,5	0,88
7	0,90
7,5	1
8	1,04
8,5	1,08
9	1,15
9,5	1,18
10	1,2

Purity (%)	Air / Nitrogen Ratio
95	1,6
97	1,6
98	1,7
99	2,1
99,5	2,4
99,9	2,8
99,95	2,9
99,99	4,8
99,995	5,8
99,999	7,4

Correction Formula: Nitrogen Delivery = Air Delivery Capacity of the Compressors / Air-Nitrogen Ratio / Kt / Kp

AIR LINE DESIGN

