

3,1-3452
Nm³/h



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.

Nitrogen Generator produces nitrogen gas through two adsorption tanks filled with Carbon Molecular Sieve (CMS).

Clean and dry air is directed to one of the tanks in a sequential manner for the adsorption process. The Carbon Molecular Sieve (CMS) in the tank 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).



Standard

- Nitrogen Tanks
- Silencer
- Mini PLC
- Tank Manometers
- Proportional Valve



Advantages

- Compact design, full automated operations
- Replaces manifold usage
- Touch Screen PLC for controlling the complete system
- New design silencer that operates at lower noise levels during pressurization and purge
- Durable piston valves for long-life operation
- The purity and capacity of nitrogen gas is designed to meet customer requirements (Nitrogen Purity 95%~99.999% is available)
- Minimum maintenance cost
- Lower air-to-nitrogen (A/N) ratios and energy consumption



Optional

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

Model	Free Nitrogen Delivery @ Following Purity Level (m³/h)									
	%95,00	%97,00	%98,00	%99,00	%99,50	%99,90	%99,95	%99,99	%99,995	%99,999
HNG 140	32,1	26,8	24,6	16,9	13,7	10,6	9,7	5,2	4,1	3,1
HNG 185	42,8	35,7	32,8	22,5	18,4	14,1	12,9	7,0	5,4	4,1
HNG 225	52,5	43,7	40,2	27,6	22,5	17,3	15,8	8,5	6,7	5,0
HNG 360	83,4	69,6	63,9	43,9	35,7	27,5	25,1	13,6	10,6	8,0
HNG 475	110,4	92,1	84,6	58,0	47,3	36,4	33,2	18,0	14,0	10,6
HNG 640	149,3	124,4	114,4	78,5	63,9	49,3	44,9	24,3	19,0	14,3
HNG 700	171,0	142,5	131,0	89,9	73,2	56,4	51,5	27,9	21,7	16,4
HNG 810	189,9	158,3	145,5	99,8	81,3	62,7	57,1	30,9	24,1	18,2
HNG 1065	248,5	207,2	190,4	130,6	106,4	82,0	74,8	40,5	31,6	23,9
HNG 1300	304,0	253,4	232,9	159,8	130,2	100,3	91,5	49,5	38,6	29,2
HNG 1580	369,6	308,1	283,1	194,2	158,3	122,0	111,2	60,2	47,0	35,5
HNG 1750	407,7	339,9	312,3	214,3	174,6	134,5	122,7	66,4	51,8	39,1
HNG 1940	451,8	376,6	346,1	237,4	193,5	149,1	136,0	73,6	57,4	43,4
HNG 2610	610,8	509,2	467,9	321,0	261,6	201,6	183,8	99,5	77,6	58,6
HNG 3050	712,4	593,9	545,7	374,4	305,1	235,0	214,5	116,1	90,6	68,4
HNG 3660	853,9	711,9	654,2	448,8	365,7	281,8	257,0	139,1	108,6	82,0
HNG 4500	1053,3	878,1	806,9	553,6	451,1	347,6	317,0	171,6	133,9	101,1
HNG 5290	1234,4	1029,1	945,6	648,8	528,7	407,4	371,5	201,1	156,9	118,5
HNG 6100	1423,4	1186,6	1090,4	748,1	609,7	469,7	428,4	231,9	180,9	136,6
HNG 7340	1713,5	1428,5	1312,7	900,6	733,9	565,5	515,7	279,2	217,8	164,6
HNG 9060	2115,0	1763,3	1620,3	1111,6	905,9	698,0	636,5	344,6	268,8	203,0
HNG 10780	2516,2	2097,7	1927,6	1322,4	1077,7	830,4	757,3	410,0	319,8	241,5
HNG 12100	2826,2	2356,0	2165,0	1485,3	1210,4	932,6	850,5	460,5	359,2	271,3
HNG 14780	3451,7	2877,6	2644,8	1814,1	1478,4	1139,2	1038,8	562,4	438,7	331,3

Reference conditions: 7.5 bar inlet, 6 bar outlet, 25°C ambient temperature

AIR INLET FACTOR										
Pressure [bar(g)]	5	5,5	6	6,5	7	7,5	8	8,5	9	
Correction Factor	0,68	0,73	0,79	0,88	0,90	1	1,04	1,08	1,15	

CMS CORRECTION FACTOR										
Ambient Temperature °C	5	10	15	20	25	30	35	40	45	
Correction Factor	0,85	1	1	1	1	0,91	0,82	0,74	0,6	