

0,015-40,000
m³/min

NITROGEN GENERATORS

Thanks to the PSA technology utilized by Hertz nitrogen generators, you can produce nitrogen gas with up to 99.999% purity within the capacity range of 0.5-5000 Nm³/h.

These generators produce nitrogen from the compressed air available. The compressed air is cleaned by pre-filtration which eliminates impurities, such as humidity, oil vapours, particles and hydrocarbons.

The filtrated compressed air is directed to two CMS filled columns. While the compressed air is passing through the generator, the oxygen and carbon dioxide molecules are removed and the pressure dew point is lowered. The generated nitrogen gas is clean, dry and of high purity so that it can be used for a wide variety of applications.

The parameters such as compressed air temperature, pressure, nitrogen purity and nitrogen pressure are all monitored continuously. Hertz nitrogen generators guarantee sustainable and high efficiency production.



Advantages

- Stainless steel pipes and process valves
- Zirconia oxygen sensor
- Outlet pressure sensor
- Visual & Audio alarm for low purity
- Visual & Audio alarm for low pressure
- Visual alarm for periodical maintenance
- Automatic start/stop
- Outlet nitrogen regulator
- Outlet nitrogen needle valve
- Advanced energy saving kit
- Siemens S/ 1200 PLC

Model	Free Nitrogen Delivery @ Following Purity Level (Nm³/min)								
	95,00%	97,00%	98,00%	99,00%	99,50%	99,90%	99,99%	99,995%	99,999%
HNIT 25	0,103	0,090	0,080	0,065	0,052	0,037	0,025	0,018	0,015
HNIT 50	0,200	0,165	0,150	0,117	0,097	0,067	0,037	0,032	0,025
HNIT 80	0,317	0,250	0,225	0,175	0,158	0,100	0,055	0,045	0,037
HNIT 100	0,450	0,350	0,317	0,250	0,208	0,142	0,075	0,058	0,048
HNIT 150	0,567	0,500	0,458	0,367	0,300	0,200	0,142	0,107	0,078
HNIT 250	0,917	0,750	0,658	0,517	0,458	0,317	0,200	0,167	0,125
HNIT 400	1,500	1,100	0,992	0,867	0,767	0,525	0,333	0,283	0,183
HNIT 500	1,867	1,500	1,367	1,167	0,967	0,750	0,492	0,408	0,317
HNIT 700	2,467	2,033	1,717	1,400	1,250	0,925	0,633	0,483	0,408
HNIT 1000	3,650	2,967	2,567	1,967	1,700	1,267	0,800	0,675	0,517
HNIT 1200	4,433	3,650	3,233	2,500	2,167	1,617	1,050	0,900	0,742
HNIT 1700	6,350	5,333	4,833	3,667	3,050	2,317	1,417	1,233	1,050
HNIT 2000	7,433	6,200	5,417	4,250	3,700	2,733	1,750	1,517	1,200
HNIT 3000	10,633	8,833	7,733	6,183	5,433	4,017	2,517	2,067	1,650
HNIT 4000	15,333	12,667	11,000	8,583	7,333	5,467	3,450	2,967	2,333
HNIT 5500	19,500	15,917	14,000	10,833	9,983	7,117	4,383	3,467	2,867
HNIT 6500	23,000	19,000	16,500	12,583	10,917	8,083	4,983	4,033	3,283
HNIT 7500	26,667	22,083	19,333	14,667	12,500	9,417	5,783	4,817	3,817
HNIT 8500	30,500	25,250	22,083	16,667	14,167	10,417	6,467	5,417	4,167
HNIT 10000	35,833	29,833	25,833	20,000	16,667	12,333	7,417	6,000	4,700
HNIT 12500	40,000	35,417	29,833	23,000	20,000	14,083	8,917	6,750	5,217

CMS Temperature (°C) - Correction Factor (Kt)									
Temperature °C	10	15	20	25	30	35	40	45	50
Correction Factor	1	1	1	1	0,94	0,86	0,81	0,77	0,72

Inlet Pressure (Barg) - Correction Factor (Kp)									
Pressure (bar[g])	6	6,5	7	7,5	8	8,5	9	9,5	10
Correction Factor	0,9	0,95	1	1,02	1,05	1,09	1,12	1,14	1,15

Purity [%] - Air / Nitrogen Ratio									
Purity [%]	95	97	98	99	99,5	99,9	99,99	99,995	99,999
Air/Nitrogen Ratio	1,9	2,1	2,3	2,6	2,9	3,28	4,61	5,11	6,59

Pressure Drop (Air Inlet - Generator Outlet)						
Purity [%]	95	97	98	99	99,5	99,9 - 99,999
Pressure (bar[g])	1,5	1,5	1,25	1,25	1	1