



0,008-45,833
Nm³/min

JOURNEY
OF
AIR

NITROGEN GENERATORS

Thanks to the PSA technology utilized by Dalgakiran 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 filtered 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. Dalgakiran 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 (Nm ³ /min)								
	95,00%	97,00%	98,00%	99,00%	99,50%	99,90%	99,99%	99,995%	99,999%
DGN 25	0,097	0,082	0,070	0,053	0,042	0,027	0,017	0,012	0,008
DGN 50	0,182	0,148	0,133	0,100	0,083	0,053	0,025	0,020	0,017
DGN 80	0,283	0,225	0,202	0,153	0,133	0,082	0,042	0,030	0,023
DGN 100	0,350	0,292	0,267	0,215	0,167	0,108	0,055	0,042	0,032
DGN 150	0,525	0,433	0,400	0,317	0,250	0,158	0,083	0,062	0,042
DGN 250	0,833	0,675	0,597	0,475	0,417	0,217	0,108	0,083	0,058
DGN 400	1,417	1,000	0,917	0,800	0,667	0,417	0,217	0,158	0,100
DGN 500	1,800	1,417	1,300	1,083	0,833	0,630	0,395	0,282	0,178
DGN 700	2,417	2,000	1,667	1,333	1,167	0,805	0,467	0,352	0,238
DGN 1000	3,583	2,917	2,467	1,917	1,667	1,200	0,700	0,527	0,357
DGN 1200	4,333	3,583	3,167	2,417	2,000	1,450	0,850	0,650	0,450
DGN 1700	6,250	5,167	4,500	3,467	2,833	2,167	1,250	0,933	0,642
DGN 2000	7,417	6,167	5,333	4,033	3,333	2,533	1,483	1,117	0,750
DGN 3000	10,583	8,750	7,667	6,000	5,000	3,617	2,100	1,583	1,083
DGN 4000	15,333	12,667	11,000	8,333	6,667	5,217	3,033	2,292	1,563
DGN 5500	19,167	15,833	13,833	10,583	9,167	6,533	3,783	2,867	1,942
DGN 6500	23,000	19,000	16,500	12,583	10,833	7,833	4,550	3,448	2,333
DGN 7500	26,667	22,083	19,333	14,667	12,500	9,417	5,417	4,083	2,783
DGN 8500	30,500	25,250	22,083	16,667	14,167	10,417	6,033	4,583	3,108
DGN 10000	38,333	31,667	27,500	21,000	16,667	12,333	7,583	5,733	3,867
DGN 12500	45,833	37,917	33,083	25,000	20,833	15,750	9,167	6,917	4,700

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