



Nitrogen Gas Generator

0.1 to 1000 Nm³/hr



Purity range 90 to 99.9997 %



How to work

The major components are a pair of Adsorbers, surge tanks, switching valves, intelligent PLC with touch screen display, Gas analyzer and other instruments. The adsorbers are filled with very high quality Carbon Molecular Sieves (CMS) preferentially adsorb Oxygen, CO and CO₂ whereas Nitrogen is not adsorbed by CMS due to its larger molecular size and lower diffusivity, passes through the vessel to the surge tank. Based on the pre-fixed time interval the online adsorber switches to desorption mode and all contaminants in the CMS are purged out to the atmosphere. Gas analyzer monitors the gas concentration and compares with the pre-set value and allows the product gas to the storage tank. If gas concentration is more than the pre-set value PLC switches the vent valve and purges out the gas till it reaches the required purity.

Exclusive Features

Intelligent PLC

- ✓ On line purity indication
- ✓ User friendly 4.3" TFT Touch screen
- ✓ Animated real time process display
- ✓ Auto cut-in & cut-off based on demand
- ✓ RS 485 MODBUS interface for remote monitoring
- ✓ Inbuilt Data logger stores minimum 50 alarms/trips
- ✓ PSA cycle trip for Low Air Inlet Pressure
- ✓ Alarm for High Oxygen Content *
- ✓ Hour meter supports preventive maintenance
- ✓ Announcement for filter cartridge replacement

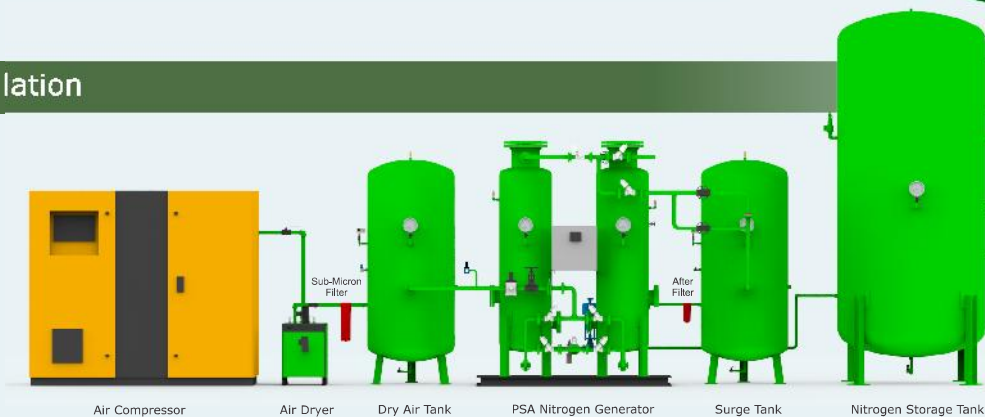


Model	N2 Purity - Output Nm3/hr								
	99.99	99.95	99.9	99.5	99	98	97	95	
NN 002	NA	NA	1.3	2.2	3.6	4.6	5.2	6.6	
NN 004	1.5	2.2	2.9	4.4	5.5	6.8	8	9.3	
NN 007	4	5	6	7.8	9.7	13	14.8	18.8	
NN 011	6.8	7.8	8.7	11.7	14.2	17.6	20.8	26.4	
NN 014	8	9	10.4	14	16.5	21.5	23.5	30	
NN 016	9.6	10.8	12.5	16.8	NA	NA	NA	NA	

Model	Purity N2 Output Nm3/hr								
	99.99	99.95	99.9	99.5	99	98	97	95	
NN 020	8.8	11.2	13.4	20.0	23.7	28.2	31.8	39.4	
NN 035	14.8	19.6	23.3	35.0	41.5	49.2	137.1	69.1	
NN 050	21.3	27.9	33.3	50.0	59.4	49.5	79.8	98.8	
NN 075	33.0	41.3	48.0	75.0	94.1	113.0	136.0	166.1	
NN 100	44.0	55.0	65.0	100.0	125.0	151.0	181.0	222.0	
NN 150	66.0	82.0	97.0	150.0	187.1	227.2	272.0	333.0	
NN 200	88.0	110.0	130.0	200.0	250.2	303.1	363.0	444.0	
NN 300	132.0	165.0	195.0	300.0	375.1	453.9	545.0	666.0	
NN 400	176.0	220.0	260.0	400.0	500.3	607.8	727.0	888.0	
NN 550	242.0	302.0	357.0	550.0	687.5	834.2	1000.0	1222.0	
NN 700	260.0	450.4	525.4	700.0	828.0	991.1	1133.0	1363.2	
NN 850	319.8	548.8	640.0	850.0	1004.0	1200.2	1371.0	1651.1	
NN 999	478.1	598.1	725.4	1000.0	1216.0	1492.0	1702.0	2090.0	



Typical Installation



Other Product Ranges



The data in this brochure are not binding, due to continuous product improvement, SUMMITS reserves the right to make changes without prior notice. For further information, contact factory

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