





Nitrogen Generators



N₂ Flow upto 1000 nm³ / hr



N₂ purity upto 99.9999%

Plug-and -play



Fastest ROI Reduced CO₂

Foot Print

NEW DIMENSIONS SOLUTIONS

Scan QR Code For Product Animation



27 plus years of excellence in PSA Technology

Innovation
Flexbility
Sustainable engineering



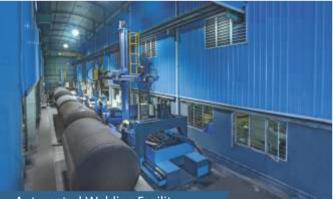
Complete In-house Facility

Fully-equipped production facility built across an area of 68,000 ft².



Dedicated Research and Development

Summits core strength lies in R&D. Our Product researches, designers and engineers work on the frontiers of applied science to build world-class solutions in gas generation products. Our R&D lab has sophisticated tools such as 3D modeling software like solid edge, Simulation analysis & CFD software, and test rigs.











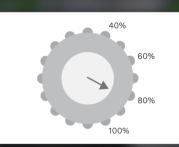
Modular N2 nitroPAK Nitrogen Generator

Key Features



Unlimited flexibility Expandable. Reduces investment when in need of additional capacity.

1



Energy Economizer offers potential savings during varying load condition.



Feed air quality monitoring ensures stringent pretreatment.



Inbuilt Nitrogen helps to ascertain outlet gas purity.



Uniform distribution of gas flow over the entire CMS, this technology ensures the highest efficiency of the adsorption process and lowest air ratio.

CMS is packed with support of Vibration Table which assures high packing density and lowest air consumption.

Integrated PLC with numerous facilities, controls, maintenance alert and compatible to industries required communication protocol

Quite operation Silent and No back pressure. Aluminium end covers for longer life.

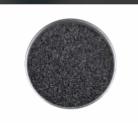
Advanced PLC



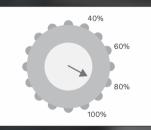


Twin Tower N2 nitroPAK Nitrogen Generator

Key Features



CMS is packed with support of Vibration Table which assures high packing density and lowest air consumption.



Energy Economize offers potential savings during varying load condition.



Feed air quality monitoring ensures stringent pretreatment.

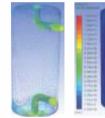


Inbuilt Nitrogen purity indicator helps to ascertain outlet gas purity.



Simulation Driven Every parameter

affecting the reliability is carefully analyzed and culminated using simulation techniques.



Valve Leak Check offers trouble free operation 24 X 7



7" Touch screen display with remote monitoring of N₂ Purity, Flow & Pressure



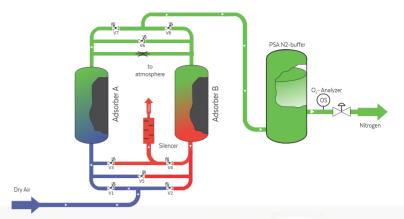
Integrated PLC

with numerous facilities, controls, maintenance alert and compatible to industries required communication protocol.



Working Principle

PSA Nitrogen Generators operate on the Pressure Swing Adsorption (PSA) principle to produce a continuous stream of nitrogen gas from compressed air. Two towers are filled with carbon molecular sieve (CMS). Pretreated compressed air enters the bottom of the on-line tower and follows up through the CMS. Oxygen and other trace gasses are preferentially adsorbed by the CMS, allowing nitrogen to pass through. After a pre-set time, the on-line tower automatically switches to regenerative mode, venting contaminants from the CMS.





Nitrogen Storage Tank

Specifications	
Design operating pressure range	6 - 10 barg
Design operating temperature range	5-50°C
Recommended operating temperature	5-45°C
Maximum inlet particulate	0.1 micron
Maximum inlet oil content	0.01ppm
Recommended inlet dew point	3°C PDP

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Pressure correction factors										
Inlet air	6		7		8		9		10	
pressure (bar g)	0.	0.88		1		1.1		1.2		.3
Temperature correction factors										
Inlet air temperature (°C)	5	10	15	20	25	30	35	40	45	50
	0.8	0.9	0.94	1.03	1.06	1	1	0.95	0.85	0.72
For High pressure contact factory										

Modular Type

MODEL	Free Nitrogen delivery (FND) in Nm³/hr									
N2 Purity (%)	95.0	97.0	99.0	99.5	99.9	99.95	99.99	99.995	99.999	
nitroPAK 3	7.5	5.8	5.0	3.4	2.6	2.2	1.7	1.0	0.8	
nitroPAK 6	15.0	11.6	10.0	6.8	5.2	4.4	3.4	2.0	1.6	
nitroPAK 10	22.5	17.4	15.0	10.2	7.8	6.6	5.1	3.0	2.4	
nitroPAK 13	30.0	23.2	20.0	13.6	10.4	8.8	6.8	4.0	3.2	
nitroPAK 17	37.5	29.0	25.0	17.0	13.0	11.0	8.5	5.0	4.0	
nitroPAK 20	45.0	34.8	30.0	20.4	15.6	13.2	10.2	6.0	4.8	

Twin Tower Type

MODEL	Free Nitrogen delivery (FND) in Nm³/hr								
	95.0	97.0	99.0	99.5	99.9	99.950	99.990	99.995	99.999
nitroPAK 30	66.7	51.0	33.9	30.0	22.5	19.5	14.7	9.0	7.0
nitroPAK 35	77.8	59.5	39.6	35.0	26.3	22.8	17.2	10.5	8.2
nitroPAK 40	88.9	68.0	45.2	40.0	30.0	26.0	19.6	12.0	9.4
nitroPAK 50	111.1	85.0	56.5	50.0	37.5	32.5	24.5	15.0	11.7
nitroPAK 60	133.3	102.0	67.8	60.0	45.0	39.0	29.4	18.0	14.1
nitroPAK 70	155.5	119.0	79.1	70.0	52.5	45.5	34.3	21.0	16.4
nitroPAK 80	177.8	136.0	90.4	80.0	60.0	52.0	39.2	24.0	18.8
nitroPAK 100	222.2	170.0	113.0	100.0	75.0	65.0	49.0	30.0	23.5
nitroPAK 150	333.3	255.0	169.5	150.0	112.5	97.5	73.5	45.1	35.2
nitroPAK 200	444.4	340.0	226.0	200.0	150.0	130.0	98.0	60.1	46.9
nitroPAK 250	555.5	425.0	282.5	250.0	187.5	162.5	122.5	75.1	58.6
nitroPAK 300	666.6	510.0	339.0	300.0	225.0	195.0	147.0	90.1	70.4
nitroPAK 350	777.7	595.0	395.5	350.0	262.5	227.5	171.5	105.1	82.1
nitroPAK 400	888.8	680.0	452.0	400.0	300.0	260.0	196.0	120.2	93.8
nitroPAK 450	999.9	765.0	508.5	450.0	337.5	292.5	220.5	135.2	105.6
nitroPAK 500	1111.0	850.0	565.0	500.0	375.0	325.0	245.0	150.2	117.3

Reference Conditions

Ambient temperature : 5°C/45°C Feed air pressure : 7.0 bar(g) Nitrogen outlet pressure : 5.0 bar (g) Pressure dew point of nitrogen : minus 40°C Inlet air quality 1.4.1 according to ISO 8573-1:2010. Typical nitrogen quality 1.2.1 according to ISO 8573-1:2010.

Applications

Oxygen presence in the processed air is an uninvited and unwanted element in various process that includes Food processing and Packing, Pharma Industries, Laser cutting, Semi conductor, Heat treatment process, Wine industries, LCMS Laboratory Applications Etc.. Nitrogen in gaseous form with desired purity is an effective and proven inert gas.

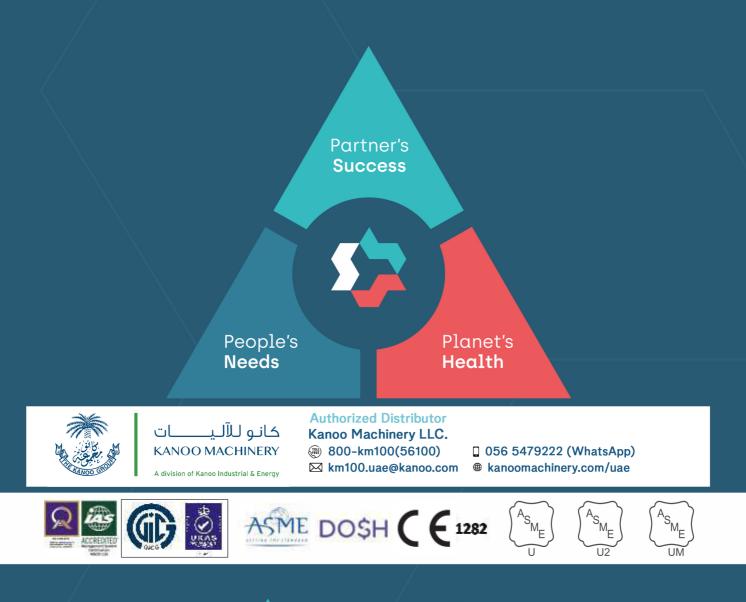


Our Clientele

nitroPAK is proven in various segments across India, Erurope, The Far East, The Middle East and African Countries



Harvesting the elements of air through innovation for





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