



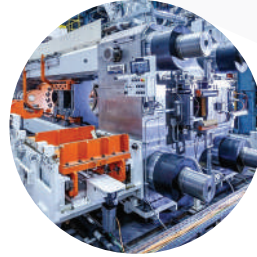
Food Packing

98-99.5% Purity



Electronic Manufacturing

99.99-99.999% Purity



Aluminium Extrusion

99-99.5% Purity



Metallurgical Heat treatment

95-99% Purity



Plastic

98-99.5% Purity



Pharmaceutical

97-99.99% Purity



Nitrogen Generator

NitroG Series



Laser Cutting

99-99.999% Purity



Oil & Gas Blanketing

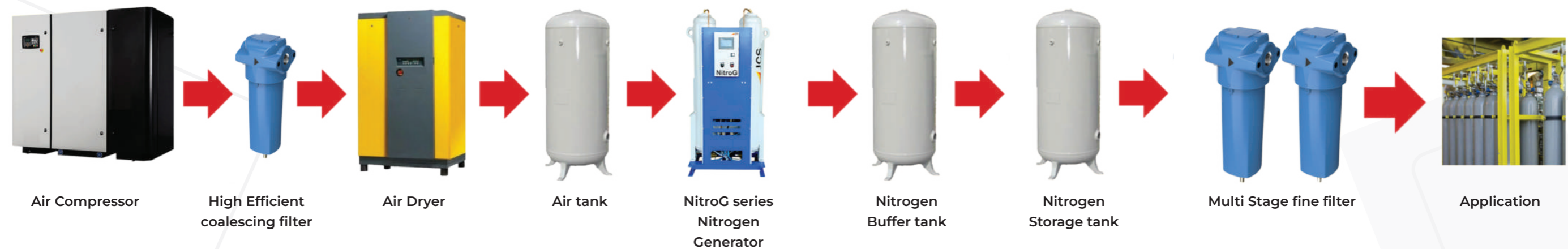
95-99% Purity

NITROG OPERATION

The technologically advanced NitroG Series Nitrogen Generator operates on the principle of Pressure Swing Adsorption (PSA). NitroG can produce uninterrupted flow of pure Nitrogen gas, with clean and dry compressed air input, around the clock throughout the year. NitroG has Adsorbent column filled with high efficiency, fast oxygen isotherm, good dynamic oxygen uptake Carbon Molecular Sieves (CMS) and reliable fast cyclic valves system to ensure consistent performance throughout its life.

After a Pre-set time, the microprocessor based controller will switch the Adsorbent Column automatically. The CMS Adsorbent Column will adsorb oxygen and other gas traces preferentially and allows the Nitrogen gas to pass through.

During Regeneration, Pressure reduction process helps to remove the adsorbed gases from the Adsorbent Column and portion of Nitrogen enriched gas allowed to expand into the Adsorbent column to accelerate the regeneration process.



FEATURES ARE YOUR BENEFITS

- Guaranteed performance
- Rapid ROI
- Fits any application
- Reliable, Efficient and low maintenance angle seat valve
- No cylinder storing, Monitoring, handling, demurrage charges or delivery concerns
- Generator in Idle mode while there is less / No demand
- Continuous monitoring of oxygen purity and pressure
- Designed As per IS 2825
- PLC/HMI Controlled Operation
- Easy to install

Specifications	
Operating Pressure Range	6-10 bar (g)
Operating Temperature Range	25-55°C
Maximum Inlet Particle	0.1 Miron
Maximum Inlet Oil Content	0.01 mg/cu.m
Recommended Inlet Air Quality	ISO 8573 class 4 (3 °C PDP)
Supply Voltage	230 VAC 1 Ph 50 Hz
Power Consumption	100 watts Max.

JCS Nitrogen Generators - Technical Data

Model	Nitrogen Enriched Air Flow in cu.m/hr*					
Purity in %	99.99**	99.9	99.5	98	97	95
NitroG 015	6.3	11.3	15.9	22.7	26.4	31.7
NitroG 025	9.8	17.5	24.5	35.0	40.8	49.0
NitroG 040	16.8	30.0	42.0	60.0	70.0	84.0
NitroG 070	27.2	48.5	67.9	97.0	113.1	135.8
NitroG 090	36.5	65.2	91.2	130.3	152.0	182.4
NitroG 110	45.2	80.8	113.1	161.6	188.5	226.2
NitroG 130	52.9	94.5	132.3	189.1	220.6	264.7
NitroG 200	78.7	140.6	196.8	281.2	328.1	393.7
NitroG 220	89.0	159.0	222.6	318.0	371.0	445.2
NitroG 275	114.6	204.6	286.4	409.2	477.4	572.9
NitroG 350	140.0	249.9	349.9	499.9	583.2	699.8
NitroG 440	175.3	313.0	438.2	626.0	730.3	876.4
Air Factor	5	3.8	2.8	2.3	2.2	2

* At 7 bar (g) Inlet air pressure and 30°C inlet temperature. For all other outlet conditions Refer to the correction factor table or Contact JCS AIR PRODUCTS.

** Inlet Air Condition Should be maintained as per ISO 8573 Class 2

For Higher Capacities Kindly contact JCS AIR PRODUCTS

Pressure Correction Factor

Inlet Air Pressure Bar(g)	Nitrogen Purity in %					
	99.99	99.9	99.5	98	97	95
6	0.90	0.90	0.88	0.87	0.86	0.85
7	1.00	1.00	1.00	1.00	1.00	1.00
8	1.00	1.00	1.00	1.00	1.00	1.00
9	1.10	1.10	1.12	1.13	1.13	1.14
10	1.13	1.14	1.14	1.15	1.16	1.17

Temperature Correction Factor

Nitrogen Purity (in %)	Inlet Air Temperature (in °C)					
	30	35	40	45	50	55
95 - 99.9	1	0.95	0.9	0.8	0.7	0.63
99.99	1	0.95	0.85	0.75	0.62	0.52

To be used as a rough guide only. For better assistance, contact JCS AIR PRODUCTS

Other Products



Oxygen Concentrator (5, 10 lpm)



Onsite Oxygen plant (33 - 1000 lpm)



Oxygen Analyser



Nitrogen Analyser



JCS AIR PRODUCTS

3/12, Lakshmi Garden, Kondayampalayam Road, VI Palayam, Coimbatore - 641110



+91 9597057208, +91 9597108393



sales@jcsairproducts.in



www.jcsairproducts.in