

On Site Nitrogen Generation Systems

GAS TEC®

On-site production of nitrogen gas for industrial applications

Benefits

- ✓ Economical - saves 20 to 30% over cylinders gas cost
- ✓ Convenient - reduced cylinder handling
- ✓ Environmentally friendly
- ✓ Safe - reduced high pressure gas inventory
- ✓ Improves productivity

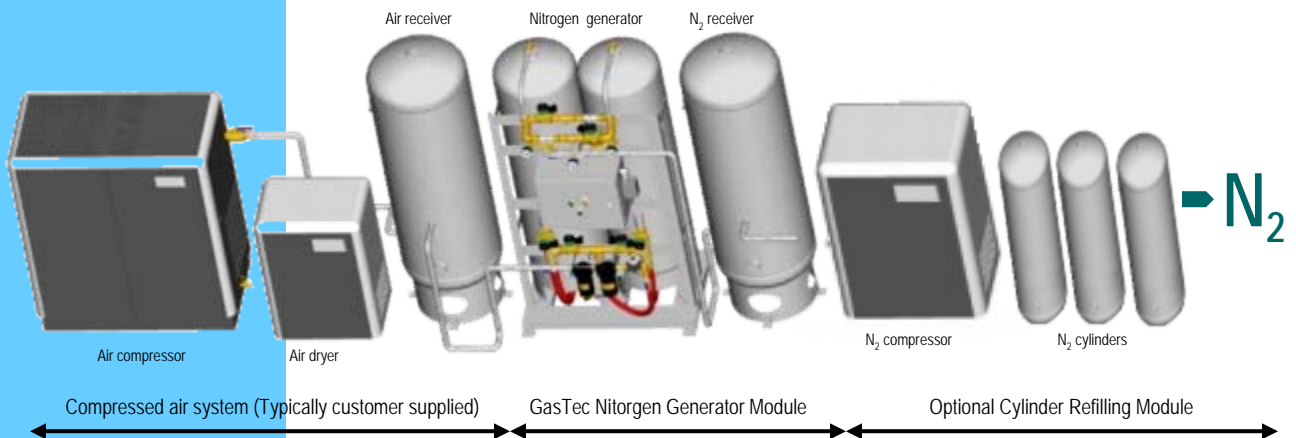
Features

- ✓ High energy efficiency
- ✓ Rugged & durable design
- ✓ Easy to install & maintain
- ✓ Gas on demand technology
- ✓ Reliable, continuous round the clock operations
- ✓ User friendly, fully automated controls

Applications

- ✓ Food packaging & storage
- ✓ Solder reflow
- ✓ Inerting & blanketing
- ✓ Pressure transfer
- ✓ Sparging & purging
- ✓ Drying

Typical Schematic



Cabinet Type Nitrogen Generator



Skid Mounted Nitrogen Generator

GasTec Nitrogen Generator

Atmospheric air contains 21% oxygen, 78% nitrogen and 1% other gases. The GasTec Nitrogen Generator produces N₂ by removing the oxygen in air using a proven pressure swing adsorption process & carbon molecular sieve.

Proven Reliability

GasTec nitrogen systems are designed for 24 hour, 365 days per year operation.

Low Nitrogen Production Cost

The average N₂ production cost is 0.4 kWh per cubic meter of nitrogen at 99.5% purity, 7 bar output.

Designed for oil & gas industries

GasTec supplies a range of nitrogen systems that are factory fitted with compressor in a complete containerized packaged specifically for outdoor applications.

Nitrogen gas is generated on demand. This eliminates the need for storage, handling and transportation of high pressure gas cylinders, thereby improving plant productivity & safety.

Convenient & Economical

GasTec nitrogen systems are easy to operate and maintain. It provides the convenience of on-site gas generation and attractive savings over cylinder gases.

Nitrogen Generator

Specifications

Model	Purity %	Nitrogen Flow (Nm ³ /hr)							LxWxH (mm)	Wt. (kg)	Comp (kW)
		99.99	99.9	99.5	99.0	98.0	97.0	95.0			
GA5	N2 Output	1.4	2.9	4.5	5.7	7.3	8.4	10.2	1000x800	80	2.2
	Air Feed	8.6	11.4	13.6	15.3	17.4	18.5	20.4	x1400		
GA10	N2 Output	3.2	6.7	10.6	13.2	16.9	19.6	23.8	1000x1000	300	5.5
	Air Feed	20.1	26.6	31.7	35.7	40.6	43.0	47.6	x1400		
GA20	N2 Output	5.2	10.8	17.2	21.5	27.5	31.8	38.6	1000x1000	350	7.5
	Air Feed	32.7	43.2	51.5	58.0	66.0	69.9	77.3	x2000		
GA30	N2 Output	7.5	15.7	24.9	31.1	39.8	46.0	56.0	1200x1200	450	11
	Air Feed	47.4	62.5	74.6	83.9	95.5	101.2	111.9	x1600		
GA40	N2 Output	10.2	21.5	34.1	42.7	54.6	63.2	76.8	1200x1200	550	15
	Air Feed	65.0	85.8	102.4	115.2	131.1	138.9	153.6	x2000		
GA50	N2 Output	12.2	25.6	40.7	50.8	65.0	75.2	91.5	1400x1400	880	15
	Air Feed	77.4	102.2	122.0	137.2	156.1	165.4	182.9	x1600		
GA60	N2 Output	14.4	30.3	48.0	60.0	76.9	88.9	108.1	1400x1400	930	18.5
	Air Feed	91.5	120.8	144.1	162.1	184.5	195.5	216.2	x1800		
GA70	N2 Output	17.0	35.6	56.6	70.7	90.5	104.7	127.3	1400x1400	980	22
	Air Feed	107.8	142.2	168.7	190.9	217.2	230.3	254.6	x2000		
GA80	N2 Output	20.0	41.9	66.5	83.1	106.4	123.0	149.7	1400x1400	1050	30
	Air Feed	126.7	167.2	199.6	224.5	255.4	270.7	299.3	x2300		
GA90	N2 Output	22.2	46.6	73.9	92.4	118.3	136.7	166.3	1400x1400	1100	30
	Air Feed	140.8	185.8	221.7	249.4	283.8	300.8	332.6	x2500		
GA100	N2 Output	24.2	50.8	80.6	100.8	129.0	149.2	181.4	1600x1600	1200	30
	Air Feed	153.6	202.7	241.9	272.1	309.6	328.2	362.9	x2100		
GA120	N2 Output	29.0	61.0	96.8	121.0	154.8	179.0	217.7	1600x1600	1300	37
	Air Feed	184.3	243.2	290.3	326.6	371.6	393.8	435.5	x2400		
GA 150	N2 Output	36.2	76.1	120.8	150.9	193.2	223.4	271.7	1600x1600	2500	45
	Air Feed	230.0	303.5	362.3	407.5	463.6	491.4	543.4	x2500		
GA 200	N2 Output	48.3	101.3	160.9	201.1	257.4	297.6	361.9	1600x2000	3500	55
	Air Feed	306.4	404.3	482.6	542.9	617.7	654.7	732.9	x2200		
GA 250	N2 Output	63.3	126.7	201.1	251.3	321.7	372.0	452.4	1600x2000	4000	75
	Air Feed	383.0	505.4	603.3	678.6	772.1	818.3	904.8	x2800		
GA 300	N2 Output	75.4	158.3	251.4	314.1	402.2	465.0	565.5	2500x2000	5000	90
	Air Feed	478.8	631.8	754.1	848.2	965.1	1022.9	1131.0	x2500		
GA 400	N2 Output	96.6	202.9	322.0	402.5	515.3	595.7	724.5	2500x2000	5500	110
	Air Feed	613.5	809.5	966.2	1086.8	1236.5	1310.6	1449.1	x2800		
GA 500	N2 Output	122.2	256.5	407.2	508.9	651.5	753.2	916.1	2800x2400	6000	132
	Air Feed	775.6	1023.5	1221.6	1374.1	1563.5	1657.1	1832.3	x2800		

- Standard model, N₂ purity 95 – 99.99%, -40 °C DP.
- Standard model output pressure, 7 bar with 8.5 bar inlet
- Optional booster compressor is needed for cylinder refilling
- Clean dry compressed air to be supplied by customer
- Min. air quality, 3 °C dew point & <0.003mg/m³ oil
- Min air pressure at generator inlet, 8.5 bar
- Nitrogen generator power input, 230V/50Hz standard



GASTEC[®]
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