



Continuous source of high purity on-site nitrogen gas PSA Nitrogen generators





Nitrogen gas on-site - at any time



Industrial nitrogen gas straight from the source

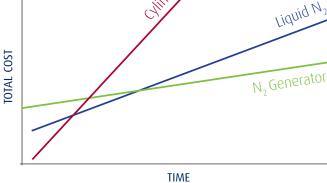
The cost-effective, reliable and safe solution for medium to large nitrogen requirements.

Nitrogen gas is used for a wide range of industrial applications including atmosphere packaging for perishable food products and preventing fire and explosions in chemical plants.

CompAir offers an ideal solution with a comprehensive range of cost effective nitrogen generation systems from compressed air, that enable users to produce their total demand for nitrogen gas on their premises and under their control.

Compared to traditional methods of supply, an on-site nitrogen generation system is exceptionally cost-efficient with a short payback time on investment - in many cases less than twelve months.





The payback period can be less than one year, when compared to cylinder supply and two to three years, when compared to liquid nitrogen supply.

The convenient and safe alternative

The system can be installed simply within a compressor house or production area with standard piping, without any special requirements.

Nitrogen gas is produced at low pressure, eliminating safety hazards usually associated with high pressure cylinder gas. Potential manual handling concerns are also removed.



Taking control of a nitrogen supply in this way, rather than relying on a third party, can reduce costs considerably.



On-site nitrogen generation made easy

The CompAir product range includes everything that a customer needs to set up an on-site nitrogen generation system. Using high quality compressed air to supply the nitrogen generators, ensures long and trouble-free service and guarantees optimum performance.

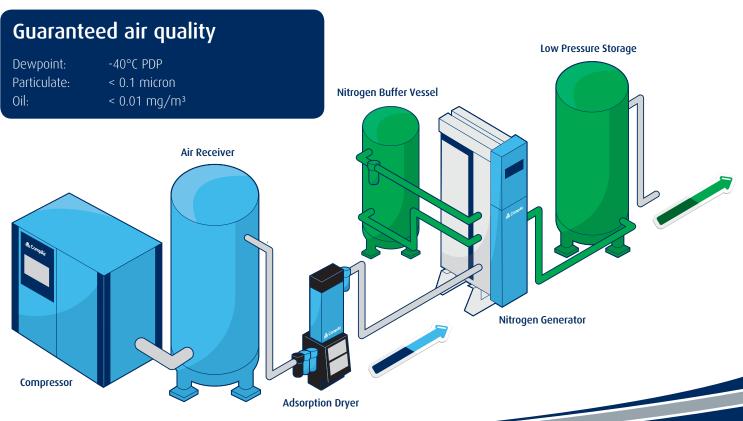
CompAir air compressors and pre-treatment packages include adsorption dryers and coalescing filters to guarantee the highest quality air supply for the nitrogen generators. The nitrogen gas can be produced from your existing compressed air system with a minimum of additional floor space.

The CompAir CN2-Series of nitrogen generators use Pressure Swing Adsorption (PSA) technology to separate nitrogen molecules from other molecules of the compressed air.

Oxygen and other trace gases are removed, while nitrogen is allowed to pass through to the application.

The design and control features employed by the CompAir nitrogen generators help maximise gas output and reduce air consumption to achieve high levels of efficiency.

The modular concept offers greater flexibility to traditional twin tower PSA generators as the CompAir CN2-Series can be configured to suit installations as and when nitrogen demand increases. Additional modules can provide extra capacity on standby or service backup for peace of mind. The compact design also means the units can fit through standard doorways.





Nitrogen generation - in every case the best solution

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CompAir nitrogen generators have many advantages over traditional supplies

Compared to outsourced supplies, on-site nitrogen generation offers a greater flexibility and has a significant impact on time and costs.

- Enhanced safety without the need to store or handle high pressure cylinders
- Reduced downtime due to an on-demand supply
- Cost savings following payback of up to 90%
- High purity nitrogen at consistent flow and pressure
- Compact space saving design
- Flexible modular design
- Low cost of ownership
- Proven high reliability



Companies can generate as much or as little nitrogen as needed, at a fraction of the cost of having the gas delivered by external suppliers.

Typical gas supply methods include high pressure cylinders, liquid mini tanks or bulk storage vessels. A CompAir nitrogen generation system makes the workplace considerably safer for employees, eliminating the safety risks associated with traditional gas supplies.

An investment that pays off

A nitrogen generation system can reduce costs by up to 90% when compared to traditional methods of supply. If a company using liquid nitrogen was to convert to gas generation technology, the new system could be expected to pay for itself in typically less than two years. For a company using cylinders, the payback period could be even earlier - less than twelve months in many cases.



A dedicated and simple solution for multiple applications

Nitrogen is a clean, dry, inert gas, primarily used for removing oxygen from products and/or processes and is used in a wide range of industries and applications. The compact systems can easily be added to the existing compressed air station with minimum cost or disruption.

- Food & Beverage
- Pharmaceutical & Chemical Industry
- Electronics Industry
- Industrial Manufacturing

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In today's global marketplace, consumers expect to receive maximum quality at minimum cost, regardless of season and location.

Modified atmosphere packaging improving product quality and extending shelf life

Product spoilage can occur from the moment a food item has been produced. Increased consumer demand for fresh, high quality preservative-free foods has led to the development of modified atmosphere packaging (MAP). Nitrogen is primarily used to reduce the oxygen content within food packaging and to avoid product deterioration. A secondary reason for using nitrogen is as a filler gas to provide a pressurised atmosphere that prevents package collapse.



CompAir Where reliability is key

Nitrogen application in the pharmaceutical industry

On-demand nitrogen gas at consistently reliable purity levels is crucial in the Pharmaceutical Industry, whether in primary or secondary pharmaceutical product manufacture or as a centralised QA laboratory supply.

CompAir have been providing compressed air technologies for a variety of applications within the Pharmaceutical Industry. Most recently this high quality compressed air is also used in generating high purity nitrogen.

Nitrogen supplied by CompAir meets the following requirements:

- nitrogen <10ppm oxygen content
- carbon dioxide <1ppm
- carbon monoxide <1ppm
- water vapour <5ppm (-66°C dewpoint)
- total hydrocarbons <5ppm









Contaminant free... risk free

CompAir offers a wide range of oil-free compressor technologies, each one built for total peace of mind. Guaranteed 100% air purity that meets stringent quality standards... always!





Performance data is based on 7 bar g (100 psi g) air inlet pressure and 20 - 25°C (66 - 77°F) ambient temperature. Consult CompAir for performance under other specific conditions.

	Nitrogen flow rate m³/hr v′s Purity (0xygen Content)																									
Model	5р	om	10p	pm	50p	pm	100	ppm	250	ppm	500	ppm	0.1	0%	0.5	0%	1	%	2	%	3	%	4	%	5	%
	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm
CN20033	-	-	0.6	0.3	1.2	0.7	1.5	0.9	1.9	1.1	2.4	1.4	2.4	1.4	3.4	2.0	4.3	2.5	5.8	3.4	7.2	4.2	8.4	4.9	9.4	5.5
CN20072	-	-	1.2	0.7	2.4	1.4	3.2	1.9	3.2	2.3	4.7	2.8	4.7	2.8	6.9	4.1	8.5	5.0	11.6	6.8	14.3	8.4	16.7	9.8	18.8	11.1
CN20090	-	-	1.5	0.9	3.2	1.9	4.2	2.5	4.2	3.1	6.5	3.8	6.5	3.8	9.5	5.6	11.5	6.8	15.2	8.9	18.7	11.0	21.7	12.8	24.5	14.4
CN2-20P	3.5	2.1	4.5	2.6	6.7	3.9	8.0	4.7	9.7	5.7	11.1	6.5	12.4	7.3	17.7	10.4	21.3	12.5	25.3	14.9	29.8	17.5	30.9	18.2	33.7	19.8
CN2-25P	5.3	3.1	6.8	4.0	10.1	5.9	12.0	7.1	14.6	8.6	16.7	9.8	18.6	10.9	26.6	15.7	32.0	18.8	38.0	22.4	44.7	26.3	46.4	27.3	50.6	29.8
CN2-35P	7.0	4.1	9.0	5.3	13.4	7.9	16.0	9.4	19.4	11.4	22.2	13.1	24.8	14.6	35.4	20.8	42.6	25.1	50.6	29.8	59.6	35.1	61.8	36.4	67.4	39.7
CN2-45P	8.8	5.2	11.3	6.7	16.8	9.9	20.0	11.8	24.3	14.3	27.8	16.4	31.0	18.2	44.3	26.1	53.3	31.4	63.3	37.3	74.5	43.9	77.3	45.5	84.3	49.6
CN2-55P	10.5	6.2	13.5	7.9	20.1	11.8	24.0	14.1	29.1	17.1	33.3	19.6	37.2	21.9	53.1	31.3	63.9	37.6	75.9	44.7	89.4	52.6	92.7	54.6	101.1	59.5
CN2-60P	11.6	6.8	15.0	8.8	22.3	13.1	26.6	15.7	32.3	19.0	36.9	21.7	41.2	24.3	58.9	34.7	70.8	41.7	84.1	49.5	99.1	58.3	102.7	60.4	112.1	66.0
CN2-60P	13.3	7.8	17.1	10.1	25.5	15.0	30.4	17.9	36.9	21.7	42.2	24.8	47.1	27.7	67.3	39.6	80.9	47.6	96.1	56.6	113.2	66.6	117.4	69.1	128.1	75.4
CN2-75P	14.5	8.5	18.6	10.9	27.7	16.3	33.1	19.5	40.2	12.7	46.0	27.1	51.3	30.2	73.3	43.1	88.2	51.9	104.7	61.6	123.4	72.6	127.9	75.3	139.5	82.1
CN2-80P	16.1	9.5	20.7	12.2	30.8	18.1	36.8	21.7	44.6	26.3	51.1	30.1	57.0	33.6	81.4	47.9	98.0	57.7	116.4	68.5	137.1	80.7	142.1	83.6	155.0	91.2

Inlet Parameters

Inlet Air Quality	Inlet Air Pressure Range					
ISO 8573-1: 2010 Class 2.2.2 (2.2.1 with high	CN20033-90	6 - 13 bar g (87 - 188 psi g)				
oil vapour content)	CN2-20P - CN2-80P	6 - 13 bar g (87 - 188 psi g)				

Environmental Parameters

Ambient Temperature	Humidity	IP Rating	Altitude	Noise
5° - 50°C 41° - 122°F	50% @ 40°C (80% MAX ≤ 31°C)	IP20 / NEMA 1	<2000m (6562ft)	< 80 db (A)

Weights and Dimensions

Model	Heigl	nt (H)	Widt	h (W)	Dept	h (D)	Weight		
model	mm	in	mm	in	mm	in	kg	lb	
CN20033	1034	41	450	18	471	19	98	216	
CN20072	1034	41	450	18	640	26	145	320	
CN20090	1034	41	450	18	809	33	196	432	
CN2-20P	1894		550	22	881	35	299	659	
CN2-25P	1894	76	550	22	1050	42	284	846	
CN2-35P	1894		550	22	1219	49	469	1034	
CN2-45P	1894	76	550	22	1388	56	553	1219	
CN2-55P	1894		550	22	1557	62	638	1406	
CN2-60P	1894	76	550	22	1726	69	722	1591	
CN2-65P	1894	76	550	22	1895	76	807	1779	
CN2-75P	1894	76	550	22	2064	83	892	1966	
CN2-75P	1894	76	550	22	2233	89	976	2151	

More options and purity levels available upon request. Sizing guide available in a separate booklet.

Electrical Parameters

Supply Voltage	Power	Fuse
	CN20033-90	3.15A (Anti surge (T),
100 / 240 ± 10% V ac 50/60Hz	80 W	250v, 5 x 20mm HBC,
	CN2-20P - CN2-80P	Breaking Capacity 1500A @ 250v,
	55 W	UL Listed)

Port Connections

Air Inlet and N2 Outlet to Buffer, N2 Inlet from Buffer N2 Outlet							
CN20033-90	G 1/2						
CN2-20P - 80P	G1						

Packed Weights and Dimensions

Model	Heig	ht (H)	Widtl	h (W)	Dept	h (D)	Weight		
model	mm	in	mm	in	mm	in	kg	lb	
CN20033	612	24	1490	59	950	38	174	383	
CN20072	612	24	1490	59	950	38	221	487	
CN20090	612	24	1490	59	950	38	272	597	
CN2-20P	729	29	2000	80	1090	44	399	879	
CN2-25P	729	29	2000	80	1260	50	496	1093	
CN2-35P	729	29	2000	80	1430	57	580	1278	
CN2-45P	729	29	2000	80	832	33	686	1512	
CN2-55P	729	29	2000	80	1770	71	782	1724	
CN2-60P	729	29	2000	80	1935	77	897	1977	
CN2-65P	729	29	2000	80	2100	84	997	2197	
CN2-75P	729	29	2000	80	2275	91	1093	2409	
CN2-80P	729	29	2000	80	2445	98	1186	2614	





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Global experience truly local service



Our Sales and Service trade counter in High Wycombe. With over 200 years of engineering excellence, the CompAir brand offers an extensive range of highly reliable, energy efficient compressors and accessories to suit all applications.

An extensive network of dedicated CompAir Sales companies and distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

As part of the worldwide Gardner Denver operation, CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environment impact compressor on the market today, helping customers achieve or surpass their sustainability targets.

CompAir compressed air product range

Advanced Compressor Technology Lubricated

- Rotary Screw
- > Fixed and Regulated Speed
- Piston
- Portable

Oil-Free

- Water Injected Screw
- > Fixed and Regulated Speed
- Two Stage Screw
- > Fixed and Regulated Speed
- Piston
- High Speed Centrifugal Quantima®
- Rotary Scroll



Complete Air Treatment Range

- Filteration
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer

J∗J Aìr Systems

J&J Air Systems Sands Industrial Estate, High Wycombe Bucks HP12 4HJ United Kingdom



PureAir

Value Added ServicesProfessional Air Audit

- Performance Reporting
- Leak Detection

A CompA

Leading Customer Support

- Custom Engineered Solutions
- Genuine CompAir Parts
 and Lubricants

Customer Serv	vice:	0800 0	27	8442	,
Telephone:		01494	53	0291	
International:	+44	(0)1494	53	0291	
Fax:	+44	(0)1494	46	3062)

sales@JJAirSystems.co.uk www.JJAirSystems.co.uk