

GEN2 Modular PSA Series

Nitrogen Generator

Summary

GEN2 PSA Series nitrogen generators use patented technology to produce an uninterrupted supply of gaseous nitrogen, on site. This compact system is ideally suited for low-flow applications that presently employ liquid nitrogen bulk delivery systems. With the GEN2, the inconvenience of daily, weekly or monthly deliveries is eliminated. Nitrogen is generated at your location, continuously and reliably, requiring only a supply of compressed air.

The GEN2 operates 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 sieves (CMS). Pretreated compressed air enters the bottom of the “on-line” tower and follows up through the CMS. Oxygen and other trace gases 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.



Features & Benefits

- Nitrogen flows from 32–7,000 scfh
- Nitrogen purity adjustable from 95%–99.999%
- Continuous stream of gaseous nitrogen on demand
- No cylinder storing, monitoring, handling, demurrage charges, or delivery concerns
- Modular design, fits through standards doorways
- Energy saving mode: auto-shutdown during periods of low demand
- Supply air pressure and nitrogen gauges
- Simple, reliable flow control system with manual purity and flow adjustments
- Silent, unattended, plug-and-play operation
- Easy to service and maintain

COMPRESSED GAS TECHNOLOGIES INC.

Nitrogen Generation Specialists Since 2001

www.nitrogen-generators.com



Performance Data and Specs

Model	Nitrogen Purity											
	95% 5%	96% 4%	97% 3%	98% 2%	99% 1%	99.5% .50%	99.9% .10%	99.95% 500ppm	99.975% 250ppm	99.99% 100ppm	99.995% 50ppm	99.999% 10ppm
	Flow Rate at the Outlet (scfh)*											
GEN2-1110	364	335	293	258	205	184	127	106	88	71	60	32
GEN2-2110	727	671	586	516	410	367	254	212	177	141	120	64
GEN2-3110	1091	1006	879	773	614	551	381	318	265	212	180	95
GEN2-2130	1324	1218	1070	932	742	667	466	403	353	297	254	180
GEN2-3130	1986	1828	1605	1398	1112	1001	699	604	529	445	381	270
GEN2-4130	2649	2437	2140	1865	1483	1335	932	805	706	593	509	360
GEN2-6130	3973	3655	3210	2797	2225	2002	1398	1208	1058	890	763	540
GEN2-8130	5297	4873	4280	3729	2966	2670	1865	1610	1411	1187	1017	720
GEN2-10130	6092	5604	4922	4289	3411	3070	2144	1852	1623	1365	1170	828
GEN2-12130	7072	6506	5714	4979	3960	3564	2489	2150	1884	1584	1385	962

*At 110 psig inlet pressure and 70°F ambient temperature. For outlet flow at all other conditions, please contact us. Air factors listed may vary by 5%.

Optional Features

- Filtration packages to meet any requirement
- Nitrogen buffer tanks
- Air Compressor packages including air dryers
- High pressure, up to 4500 psig



Let our technical representatives help you determine the right system to meet your specific nitrogen needs or answer any question you may have.

Model	Approximate Dimensions & Weights (lbs)			
	Height	Width	Depth	Weight
GEN2-1110	48"	16"	23"	176
GEN2-2110	48"	16"	30"	242
GEN2-3110	48"	16"	36"	374
GEN2-2130	71"	16"	30"	365
GEN2-3130	71"	16"	36"	490
GEN2-4130	71"	16"	43"	610
GEN2-6130	71"	16"	56"	852
GEN2-8130	71"	16"	69"	1100
GEN2-10130	71"	16"	83"	1350
GEN2-12130	71"	16"	96"	1600

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