

Gardner Denver

NITROGEN GENERATORS | 2-335 CFM

XGN2 Series



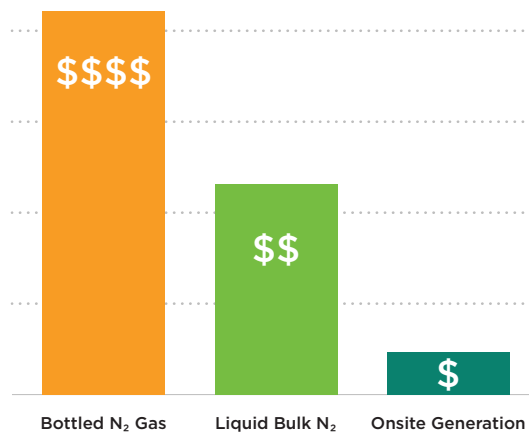
X Series: NeXt-Generation Gardner Denver Air Treatment

NITROGEN GENERATION BENEFITS

Gardner Denver's Pressure Swing Adsorption (PSA) nitrogen generators eliminate the need for traditional nitrogen shipments and storage, providing you with real cost savings. With access to our entire portfolio of related products and services, you'll have a trusted partner for nitrogen solutions from start to finish.

- Lowers your operating cost by generating nitrogen at your facility from freely available air
- Maximizes system energy efficiency by providing industry-leading air-to-nitrogen utilization
- Provides N₂ purity tailored to your operation, whether you need 95% or 99.999%
- Reduce waste and operate more sustainably
- Avoid safety and footprint issues associated with storing nitrogen

Annual Operating Cost



Gardner Denver nitrogen generators typically provide a one-year payback. After year one, you'll realize year-over-year savings.

Did You Know?

With quality and reliability built in, Gardner Denver's on-site nitrogen generators offer a wide variety of innovative solutions to meet your production needs and reduce operating costs compared to traditional nitrogen supply.

Did You Know?

10-20% OF BULK NITROGEN IS TYPICALLY WASTED THROUGH BLEED OFF OR FAILURE TO EXTRACT ALL PRODUCT FROM CANISTERS.

HOW PSA NITROGEN GENERATORS WORK

PSA technology utilizes a twin tower design where nitrogen production and tower regeneration occur simultaneously.

N₂ Production

- 1 Compressed air enters the generator and
- 2 O₂ is adsorbed from the air by the carbon molecular sieve (CMS).
- 3 The remaining N₂ is removed for use.

Regeneration

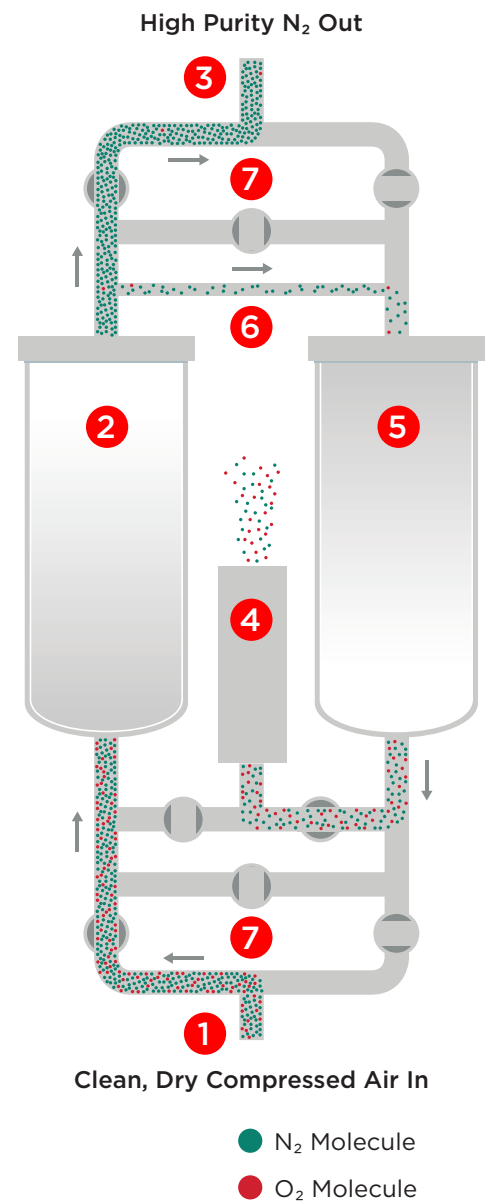
- 4 Pressure is released from the regeneration tower to the atmosphere.
- 5 The O₂ in the CMS is adsorbed back into the depressurized air exiting the tower.
- 6 A small amount of N₂ is redirected to the tower to assist with CMS regeneration.

Pressure Equalization

After regeneration, the generator's inlet and outlet valves are closed and the two towers are opened to one another to equalize pressure using stored pressurized N₂.

Tower Switch

- 7 Once equalized, the freshly regenerated tower now becomes the production tower while the other tower is regenerated.

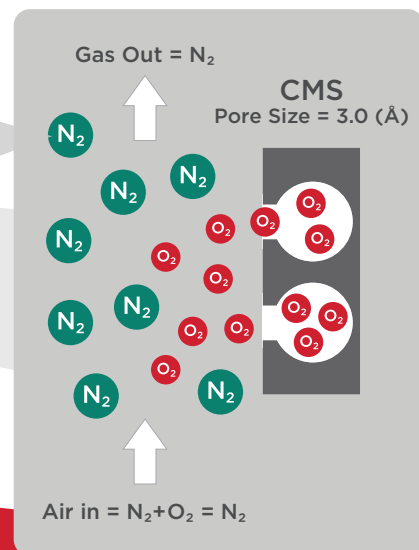
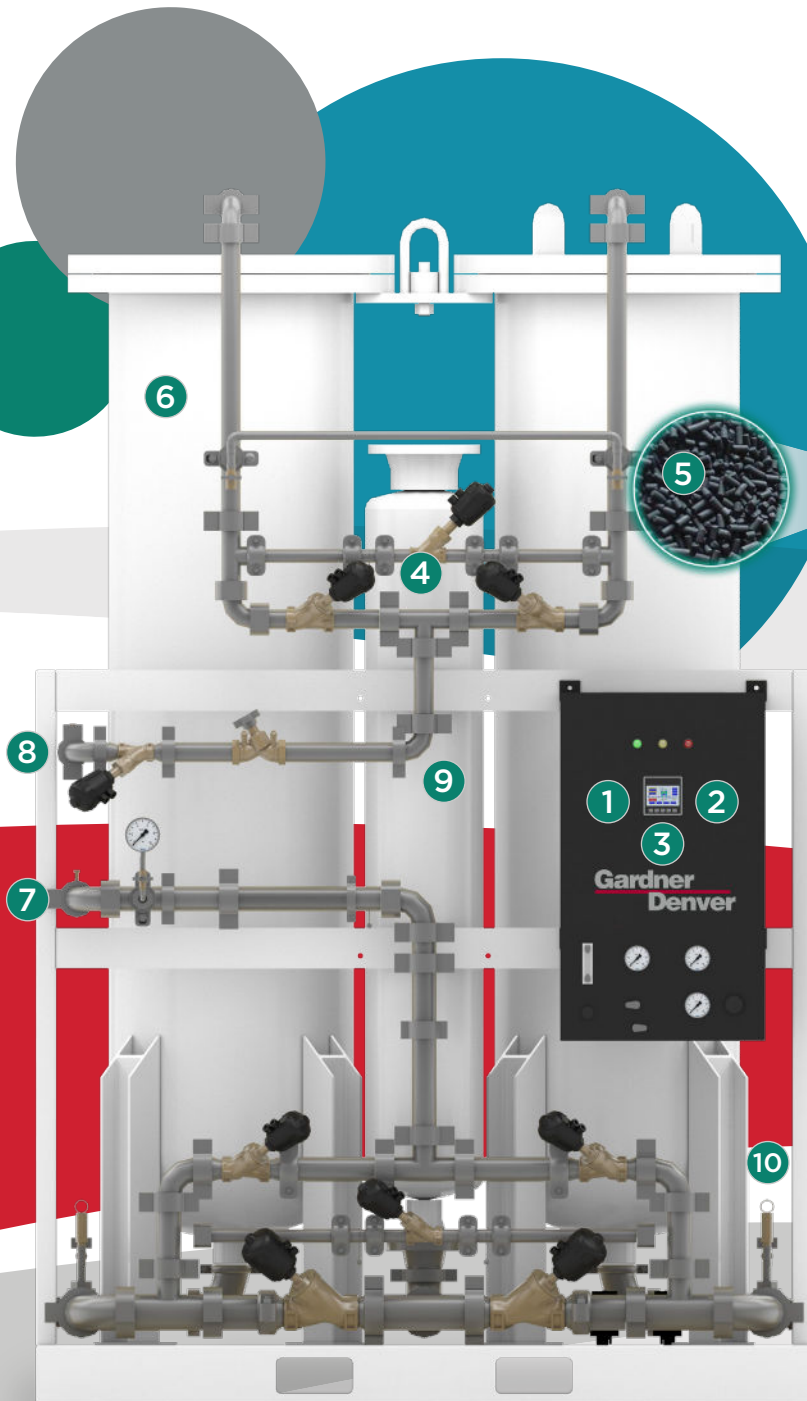


Industry-Leading Features

PSA nitrogen generators are precisely designed to ensure a long operating life and efficient operation.

- 1 Intuitive touch screen controller
- 2 Real-time onboard trending
- 3 High-quality oxygen analyzer

- 4 Precision switching valves
- 5 Long-life CMS adsorption media
- 6 ASME-certified pressure vessels
- 7 Air input
- 8 N₂ output
- 9 Noise-reducing silencer
- 10 Pressure relief valves



Built-In Reliability

Your success depends on safety and reliability—that's why it's built into all of our PSA nitrogen generators. Each system comes pre-assembled and tested at the factory for simple, plug-and-play installation at your site to maximize productivity and ensure out-of-box operation. Our robust design includes:

- Superior quality CMS media that extends product life, simplifies maintenance and reduces replacement costs
- Precision long-life valves to control air flow with quick-acting, high precision switching, improving efficiency and durability
- Intelligent controls designed to optimize set points, improve performance, and protect your entire nitrogen generation system
- ASME-certified pressure vessels to ensure safe operation
- Standard extended warranties to keep you protected for 24/30 months



Specifications

PSA NITROGEN GENERATOR PERFORMANCE, 70°F AMBIENT, 110 PSIG

MODEL	FLOW RATE							INLET	OUTLET
	CFM AT DIFFERENT NITROGEN PURITIES								
XGN2-15LS	11.2	6.3	5.5	4.6	3.6	2.7	1.7	3/4"	1/2"
XGN2-21LS	14.8	8.2	7.3	6.0	4.7	3.6	2.3	3/4"	1/2"
XGN2-26LS	21.6	12.1	10.6	8.8	6.9	5.2	3.3	3/4"	1/2"
XGN2-32LS	26.7	14.9	13.1	10.8	8.6	6.4	4.1	3/4"	1/2"
XGN2-41LS	33.0	18.4	16.2	13.4	10.6	8.0	5.0	1"	3/4"
XGN2-47LS	39.7	22.2	19.5	16.1	12.7	9.6	6.1	1"	3/4"
XGN2-59LS	46.6	26.0	22.9	18.9	14.9	11.2	7.1	1"	3/4"
XGN2-68LS	54.8	30.6	26.9	22.2	17.6	13.2	8.4	1"	3/4"
XGN2-76LS	60.8	34.0	29.9	24.7	19.5	14.7	9.3	1"	3/4"
XGN2-88LS	71.5	40.0	35.1	29.0	22.9	17.2	10.9	1"	3/4"
XGN2-100LS	83.6	46.7	41.0	33.9	26.8	20.2	12.8	1-1/2"	1"
XGN2-118LS	94.7	52.9	46.5	38.5	30.4	22.8	14.5	1-1/2"	1"
XGN2-132HS	112.1	62.4	55.1	45.5	35.9	26.8	17.1	1-1/2"	1"
XGN2-144HS	122.0	67.9	59.7	47.3	39.0	29.2	18.5	1-1/2"	1"
XGN2-159HS	134.5	74.8	65.7	48.8	43.0	32.1	20.4	1-1/2"	1"
XGN2-174HS	140.3	78.1	68.6	51.0	44.9	33.5	21.3	2"	1-1/2"
XGN2-191HS	153.7	85.5	75.1	55.8	49.2	36.7	23.3	2"	1-1/2"
XGN2-212HS	171.0	95.1	83.6	62.1	54.7	40.9	25.9	2"	1-1/2"
XGN2-232HS	188.2	104.7	92.0	68.4	60.2	45.0	28.6	2"	1-1/2"
XGN2-259HS	209.3	116.4	102.3	76.0	66.9	50.0	31.8	2"	1-1/2"
XGN2-285HS	229.8	127.9	112.4	83.5	73.5	54.9	34.9	2"	1-1/2"
XGN2-315HS	255.0	141.9	124.7	92.6	81.6	60.9	38.7	2"	1-1/2"
XGN2-347HS	280.2	155.9	137.0	101.7	89.6	67.0	42.5	2"	1-1/2"



PSA NITROGEN GENERATOR WEIGHTS & DIMENSIONS

MODEL	DIMENSIONS (L × W × H)		WEIGHT	
XGN2-15LS	35 × 26 × 80	889 × 661 × 2032	702	319
XGN2-21LS	35 × 26 × 80	889 × 661 × 2032	738	335
XGN2-26LS	35 × 26 × 100	889 × 661 × 2540	866	393
XGN2-32LS	35 × 26 × 100	889 × 661 × 2540	998	453
XGN2-41LS	35 × 30 × 80	889 × 762 × 2032	1060	481
XGN2-47LS	35 × 30 × 80	889 × 762 × 2032	1194	542
XGN2-59LS	35 × 30 × 80	889 × 762 × 2032	1292	587
XGN2-68LS	35 × 30 × 91	889 × 762 × 2312	1443	655
XGN2-76LS	35 × 37 × 85	889 × 940 × 2159	1500	681
XGN2-88LS	35 × 37 × 96	889 × 940 × 2439	1630	740
XGN2-100LS	35 × 39 × 85	889 × 991 × 2159	1850	840
XGN2-118LS	35 × 39 × 99	889 × 991 × 2515	2025	919
XGN2-132HS	64 × 34 × 116	1626 × 864 × 2947	3450	1565
XGN2-144HS	64 × 34 × 124	1626 × 864 × 3150	3610	1638
XGN2-159HS	64 × 34 × 134	1626 × 864 × 3404	3810	1729
XGN2-174HS	76 × 48 × 110	1931 × 1220 × 2794	4330	1965
XGN2-191HS	76 × 48 × 110	1931 × 1220 × 2794	4520	2051
XGN2-212HS	76 × 48 × 126	1931 × 1220 × 3201	4750	2155
XGN2-232HS	76 × 48 × 135	1931 × 1220 × 3429	4990	2264
XGN2-259HS	76 × 48 × 146	1931 × 1220 × 3709	5280	2395
XGN2-285HS	76 × 48 × 119	1931 × 1220 × 3023	6120	2776
XGN2-315HS	76 × 48 × 128	1931 × 1220 × 3252	6430	2917
XGN2-347HS	76 × 48 × 137	1931 × 1220 × 3480	6760	3067

Did You Know?

The earth's atmosphere is composed of 78% nitrogen, making it one of the most readily available and economical inert gases. It is used to avoid combustion, corrosion and product spoilage. Many industries rely on nitrogen for their manufacturing processes, including food and beverage, electronics, petrochemicals, pharmaceutical and metal operations.

Gardner Denver offers a complete line of nitrogen generation solutions that allow you to forgo traditional nitrogen delivery, reduce operating expenses and simplify your operations.

The leader in every market we serve
by continuously improving all business processes
with a focus on innovation and velocity


**Gardner
Denver**[®]

Gardner Denver, Inc.

1800 Gardner Expressway
Quincy, IL 62305
www.gardnerdenver.com



©2022 Gardner Denver, Inc. Printed in U.S.A.
GA-XGN2 1st Ed. 2/22

 Please recycle after use.