

On-Site Nitrogen Generators

2-335 cfm



Boost Your Bottom Line

With quality and reliability built in, Ingersoll Rand'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.



Learn More About PSA Nitrogen Generators

The Benefits of On-Site Nitrogen Generation

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.

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

On-site nitrogen generation with Ingersoll Rand helps your business realize the following benefits:

- Lower operating costs with year-over-year savings
- Simplify business processes with a single trusted partner for your nitrogen generation needs
- Reduce waste and operate more sustainably
- Avoid safety and footprint issues associated with storing nitrogen

Let Ingersoll Rand be your trusted partner for your complete nitrogen generation system solution and service.



Advantages of On-Site Nitrogen Generation

Ingersoll Rand'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.

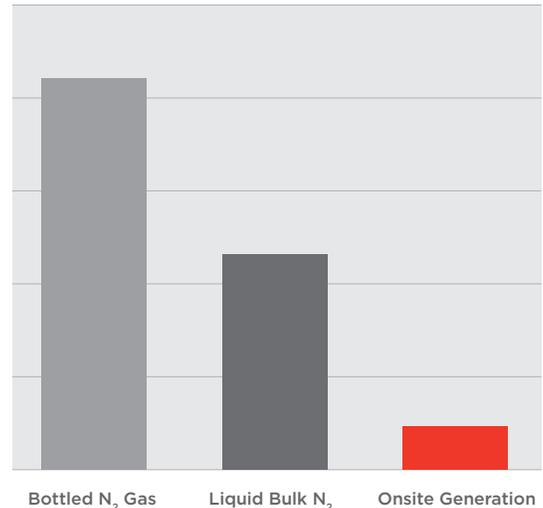
On-Site Nitrogen Generation with Ingersoll Rand:

- 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%
- Ensures peace of mind with trained Ingersoll Rand technicians to provide local support

KNOW THE FACTS

10-20% of bulk nitrogen is typically wasted through bleed off or failure to extract all product from canisters.

Annual Operating Cost



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

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

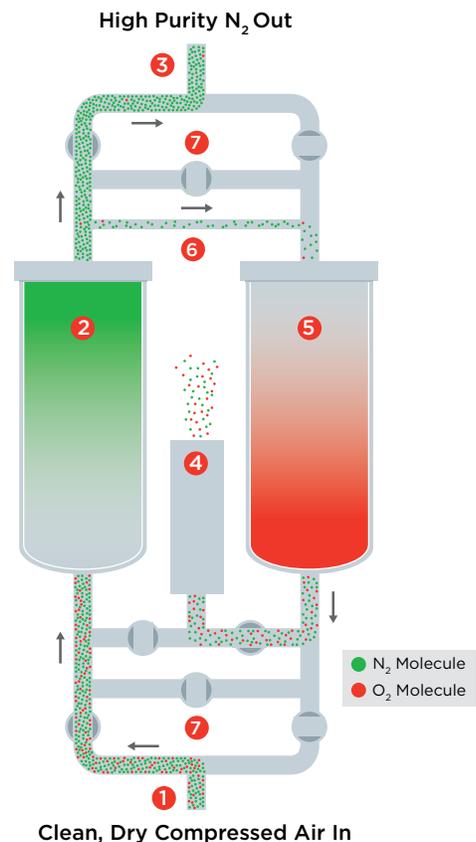
- 4 Pressure is released from the regeneration tower to the atmosphere.
- 5 The O₂ in the CMS is adsorbed back into the depressurized air exiting the tower.
- 6 A small amount of N₂ is redirected to the tower to assist with CMS regeneration.

Pressure Equalization

- 7 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

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



Built-In Reliability

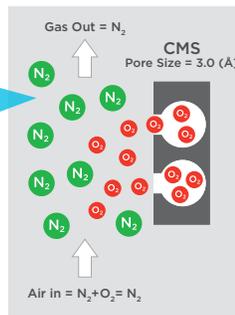
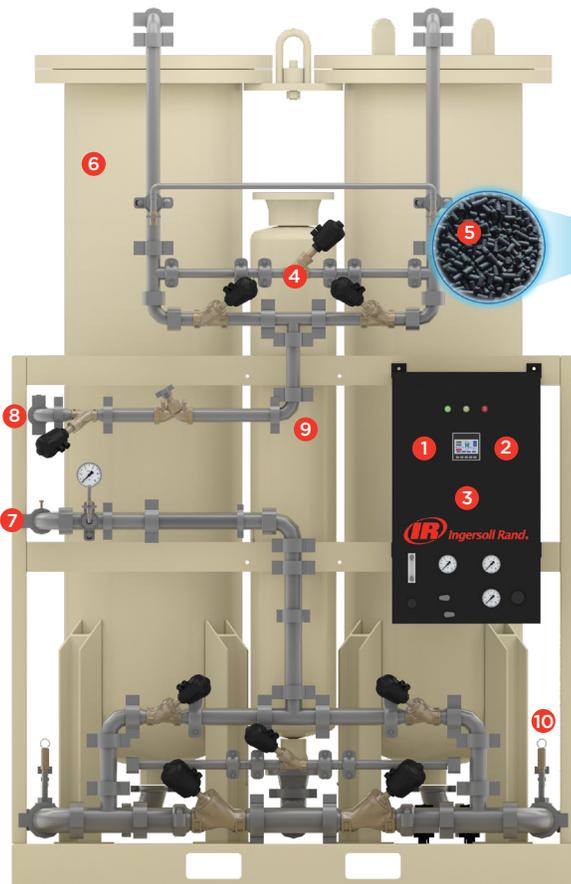
Your success depends on safety and reliability—that's why it's built into all of our PSA nitrogen generators. Each system comes pre-assembled and tested at the factory for simple, plug-and-play installation at your site to maximize productivity and ensure out-of-box operation. Our robust design includes:

- 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



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 N_2 output
- 9 Noise-reducing silencer
- 10 Pressure relief valves

PSA Nitrogen Generator Performance, 70°F Ambient, 110 psig											
Model	Flow Rate, cfm at Different Nitrogen Purities							Inlet NPT	Outlet NPT	Dimensions (LxWxH) in	Weight lb
	95%	99%	99.5%	99.9%	99.95%	99.99%	99.999%				
NG14LS	11.2	6.3	5.5	4.6	3.6	2.7	1.7	3/4"	1/2"	35 x 26 x 80	702
NG21LS	14.8	8.2	7.3	6.0	4.7	3.6	2.3	3/4"	1/2"	35 x 26 x 80	738
NG26LS	21.6	12.1	10.6	8.8	6.9	5.2	3.3	3/4"	1/2"	35 x 26 x 100	866
NG32LS	26.7	14.9	13.1	10.8	8.6	6.4	4.1	3/4"	1/2"	35 x 26 x 100	998
NG41LS	33.0	18.4	16.2	13.4	10.6	8.0	5.0	1"	3/4"	35 x 30 x 80	1,060
NG47LS	39.7	22.2	19.5	16.1	12.7	9.6	6.1	1"	3/4"	35 x 30 x 80	1,194
NG59LS	46.6	26.0	22.9	18.9	14.9	11.2	7.1	1"	3/4"	35 x 30 x 80	1,292
NG68LS	54.8	30.6	26.9	22.2	17.6	13.2	8.4	1"	3/4"	35 x 30 x 91	1,443
NG76LS	60.8	34.0	29.9	24.7	19.5	14.7	9.3	1"	3/4"	35 x 37 x 85	1,500
NG88LS	71.5	40.0	35.1	29.0	22.9	17.2	10.9	1"	3/4"	35 x 37 x 96	1,630
NG100LS	83.6	46.7	41.0	33.9	26.8	20.2	12.8	1-1/2"	1"	35 x 39 x 85	1,850
NG118LS	94.7	52.9	46.5	38.5	30.4	22.8	14.5	1-1/2"	1"	35 x 39 x 99	2,025
NG132HS	112.1	62.6	55.1	45.5	35.9	27.0	17.1	1-1/2"	1"	64 x 34 x 116	3,450
NG144HS	121.7	67.9	59.7	47.3	39.0	29.2	18.5	1-1/2"	1"	64 x 34 x 124	3,610
NG159HS	134.1	74.8	65.7	48.8	43.0	32.1	20.4	1-1/2"	1"	64 x 34 x 134	3,810
NG174HS	140.0	78.1	68.6	51.0	44.9	33.5	21.3	2"	1-1/2"	76 x 48 x 110	4,330
NG191HS	153.3	85.5	75.1	55.8	49.2	36.7	23.3	2"	1-1/2"	76 x 48 x 110	4,520
NG212HS	170.5	95.1	83.6	62.1	54.7	40.9	25.9	2"	1-1/2"	76 x 48 x 126	4,750
NG232HS	187.7	104.7	92.0	68.4	60.2	45.0	28.6	2"	1-1/2"	76 x 48 x 135	4,990
NG259HS	208.8	116.4	102.3	76.0	66.9	50.0	31.8	2"	1-1/2"	76 x 48 x 146	5,280
NG285HS	229.3	127.9	112.4	83.5	73.5	54.9	34.9	2"	1-1/2"	76 x 48 x 119	6,120
NG315HS	254.4	141.9	124.7	92.6	81.6	60.9	38.7	2"	1-1/2"	76 x 48 x 128	6,430
NG347HS	279.5	155.9	137.0	101.7	89.6	67.0	42.5	2"	1-1/2"	76 x 48 x 137	6,760
Air/N ₂ Ratio	1.9	2.4	2.6	3.1	3.4	4.2	5.6	-	-	-	-

CARE Maintenance Programs

Compressed air and nitrogen are critical to your operation. A proper maintenance strategy is crucial to avoiding unplanned, unbudgeted downtime and production interruptions. Invest in your future with a trusted global partner with our PackageCARE maintenance service program. It includes full risk transfer for up to 10 years for compressed air and nitrogen generation equipment.



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