

THE NEXT EVOLUTION IN ON-PREMISES NITROGEN GENERATION.

Since 2003, South-Tek has designed, developed, and manufactured best-in-class nitrogen generation technology. With the evolution of the N2GEN-FLEX Series, customers are now empowered with complete control of their nitrogen supply, boosting operational efficiency and reliability.

The skid-mounted PSA (Pressure Swing Adsorption) system is designed for purities ranging from 95% to 99.999% and flow rates from 125 to over 2000 SCFH. Compact and versatile, this system offers a scalable design to meet the demands of your most critical processes. It arrives quickly, fits seamlessly into your workflow, and delivers significant cost savings, ensuring that customers can adapt their nitrogen production to specific demands of their business.

As customers continue to seek cutting-edge solutions for mission critical applications, N2GEN-FLEX delivers high-purity nitrogen generation with best-in-class performance to meet the most demanding operational needs, while also minimizing costs.

It's time to rethink your nitrogen strategy and explore a solution that delivers on expertise, control and long-term performance. N2GEN-FLEX the next evolution in on-premise nitrogen generation!



N2GEN-FLEX-4TS



N2GEN-FLEX-6TS



N2GEN-FLEX-8TS



N2GEN-FLEX-10S



N2GEN-FLEX-14S

Key Features and Benefits

Best-In-Class Efficiency

Our innovative design ensures consistent performance, reduced operational costs, and a rapid return on investment.

Compact Form Factor

The compact design means it can be shipped in standard containers and easily passes through a standard 36-inch wide doorway.

Unmatched Scalability

Offering superior scalability, ensuring you have the flexibility to scale up your operations without missing a beat.

Rapid Delivery

Time is critical in your operations. The simplified platform design streamlines every aspect of production and assembly. By eliminating the need for a pressure vessel certification and minimizing complex components, lead times are significantly reduced.

N2GEN-FLEX Series



Specification Sheet

Description	Units	TS Series Data			S Series Data		
Model	N2GEN-FLEX-	4TS	6TS	8TS	10S	12S	14S
Min-max inlet air flow	SCFM	12.0 – 23.2	17.9 – 33.7	20.7 – 38.1	30.6 – 58.3	36.6 – 69.5	43.5 – 79.5
Inlet connection	Inches	3/4 NPT FEMALE					
Min nitrogen flow	SCFH	126	209	294	332	396	532
Max inlet pressure	PSI	140					
Max outlet pressure	PSI	130					
Nitrogen purity ¹	%	95 – 99.999					
Dimensions (LxWxH)	Inches	68 × 30 × 70					
Shipping weight	Pounds	785	910	1035	985	1110	1235
Outlet connection	Inches	1/2 NPT FEMALE					
Included inlet filtration	-	3 Stage (5 Micron, .01 Micron, Activated Carbon)					
Filter replacement kit	-	FRP-020 (Semiannual)					
Nitrogen tank capacity	Gal	60 (Skid mt)			120 (Floor mt)		
Electrical Input	VAC/Ph/Hz	110-240/1/50-60					
Amps	Amps	2.1					
Ambient temp. range	Deg F	40 - 90					
General arrangement	-	GA-N2GEN-FLEX					
Detail drawing	-	N2GEN-FLEX-TS-D			N2GEN-FLEX-S-D		

1. Nitrogen purity defined as the sample total minus observed oxygen content

Reference Data

A - Nitrogen flow (SCFH) B - Average required air flow (SCFM) C - Air/N2

N2 Purity (%)	95%			97%			99%			99.5%			99.9%			99.99%			99.999%		
Model	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
N2GEN-FLEX-4TS	688	23.2	2.0	600	20.8	2.1	445	18.3	2.5	370	17.0	2.8	250	14.7	3.5	162	12.9	4.8	126	12.0	5.7
N2GEN-FLEX-6TS	1047	33.7	1.9	892	30.6	2.1	654	26.0	2.4	581	24.6	2.5	388	21.7	3.4	265	19.0	4.3	209	17.9	5.2
N2GEN-FLEX-8TS	1297	38.1	1.8	1075	34.9	1.9	831	28.8	2.1	716	26.8	2.3	497	23.8	2.9	346	21.3	3.7	294	20.7	4.2
N2GEN-FLEX-10S	1679	58.3	2.1	1512	52.6	2.1	1135	45.1	2.4	1024	43.0	2.5	748	37.0	3.0	432	32.3	4.5	332	30.6	5.5
N2GEN-FLEX-12S	1903	69.5	2.2	1643	64.0	2.3	1323	54.1	2.5	1170	49.7	2.6	908	44.3	2.9	567	39.2	4.1	396	36.6	5.5
N2GEN-FLEX-14S	2050	79.5	2.3	1740	71.8	2.5	1431	62.6	2.6	1303	59.5	2.7	1007	51.3	3.1	728	45.9	3.8	532	43.5	4.9

* Air flow is an average, air flows may vary +/- 10% during operation

Air Pressure Correction

Inlet Pressure	90	100	110	120	130	140
Correction Factor	0.84	1	1.05	1.13	1.25	1.33

* Pressure is in PSIG

Compressed Air Temperature Correction

Inlet Temperature	90	95	100	105
Correction Factor	1	0.9	0.8	0.7

* Temperature is in degrees Fahrenheit

MISSION
CRITICAL
South-Tek
Systems



Founded in 2003, South-Tek Systems is the industry's leading nitrogen generation manufacturer. Offering both standard product lines and engineered-to-order generation solutions, South-Tek delivers best-in-class nitrogen generators for worldwide distribution..

South-Tek Systems, LLC
3700 U.S. Highway 421 North
Wilmington, NC 28401

Toll-Free: (888) 526-6284
Office: (910) 332-4173
Fax: (910) 332-4178

info@southteksystems.com
www.southteksystems.com

