

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 400 to over 2200 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 missioncritical 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 patent-pending 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-	2TS	4TS	6TS	8TS	10S	12S	14S
Min-max inlet air flow	SCFM	6.0-13.0	12.6-22.6	16.3-29.6	21.1-37.0	29.1-52.6	31.6-57.0	39.8-69.9
Inlet connection	Inches	3/4 NPT FEMALE						
Min nitrogen flow	SCFH	67.8	150	192	270	372	402	471
Max inlet pressure	PSI	135						
Max outlet pressure	PSI	130						
Nitrogen purity¹	%	95 - 99.999						
Dimensions (LxWxH)	Inches	68 x 30 x 66.8						
Shipping weight	Pounds	660	785	910	1035	985	1110	1235
Outlet connection	Inches	3/4 NPT FEMALE						
Included inlet filtration	-	3 Stage (5 Micron, .01 Micron, Activated Carbon)						
Filter replacement kit	-	FRP-020 (Semiannual)						
Nitrogen tank capacity	Gal	30 (Skid mt)				60 (Tank mt)		
Electrical Input	VAC/Ph/Hz	120/1/60						
Amps	Amps	2.1						
Ambient temp. range	Deg F	40 - 90						
General arrangement	-	GA-N2GEN-FLEX						
Detail drawing	-	N2GEN-FLEX-TS-DD				N2GEN-FLEX-S-DD		

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

N ₂ Purity (%)	95%			97%			99%			99.5%			99.9%			99.99%			99.999%		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
N2GEN-FLEX-2TS	374	13.0	2.1	296	11.8	2.4	218	9.8	2.7	190	9.0	2.9	137	7.7	3.4	95	6.8	4.3	63	6.0	5.7
N2GEN-FLEX-4TS	670	22.6	2.0	558	20.5	2.2	396	17.6	2.7	340	16.5	2.9	248	14.7	3.5	184	13.3	4.3	140	12.6	5.4
N2GEN-FLEX-6TS	904	29.6	2.0	698	26.5	2.3	525	22.6	2.6	435	21.4	2.9	329	19.2	3.5	234	17.1	4.4	179	16.3	5.5
N2GEN-FLEX-8TS	1172	37.0	1.9	935	33.0	2.1	698	28.8	2.5	558	26.4	2.8	432	24.3	3.4	312	21.9	4.2	251	21.1	5.0
N2GEN-FLEX-10S	1569	52.6	2.0	1283	47.8	2.2	1004	41.2	2.5	893	39.0	2.6	670	35.8	3.2	419	30.9	4.4	346	29.1	5.1
N2GEN-FLEX-12S	1758	57.0	1.9	1418	51.9	2.2	1018	44.9	2.6	949	47.6	3.0	725	38.5	3.2	452	33.6	4.5	374	31.6	5.1
N2GEN-FLEX-14S	2075	69.9	2.0	1722	64.2	2.2	1364	56.5	2.5	1119	51.4	2.8	867	46.9	3.2	577	42.9	4.5	438	39.8	5.5

* 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



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.

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