



Heat Treating

Nitrogen Generators

- N₂GEN S
- N₂GEN CS
- N₂GEN TS



High-purity nitrogen on-demand



80 - 90% typical savings on nitrogen costs



Control your supply chain



South-Tek Systems Nitrogen Generators

A safer, smarter and cost-effective solution

N₂GEN[®]

The Heat Treating industry benefits from using nitrogen generators when **continuous flow of either pure N₂ or N₂ as a component is needed** in a process such as blanketing, nitrogen purging, or carrier gas.

N₂GEN generators are engineered-to-order offering:

- Continuous nitrogen on-demand
- 95-99.999% nitrogen purities
- A wide range of flow rates up to 35,000+ SCFH

“We ensure purity levels with in-house testing using Oxygen analyzers that have accuracies of ± 2 PPM (parts per million) – many clients require additional 3rd party verification using very precise chromatography machines which corroborate our factory results and the ability of our generators to achieve purities better than 10 PPM O₂ for years in the field.”

– Matt Thomas
Director of Engineering



The N₂GEN Skid Series Nitrogen Generator produces flow rates of up to 35,000+ SCFH.

The South-Tek Difference

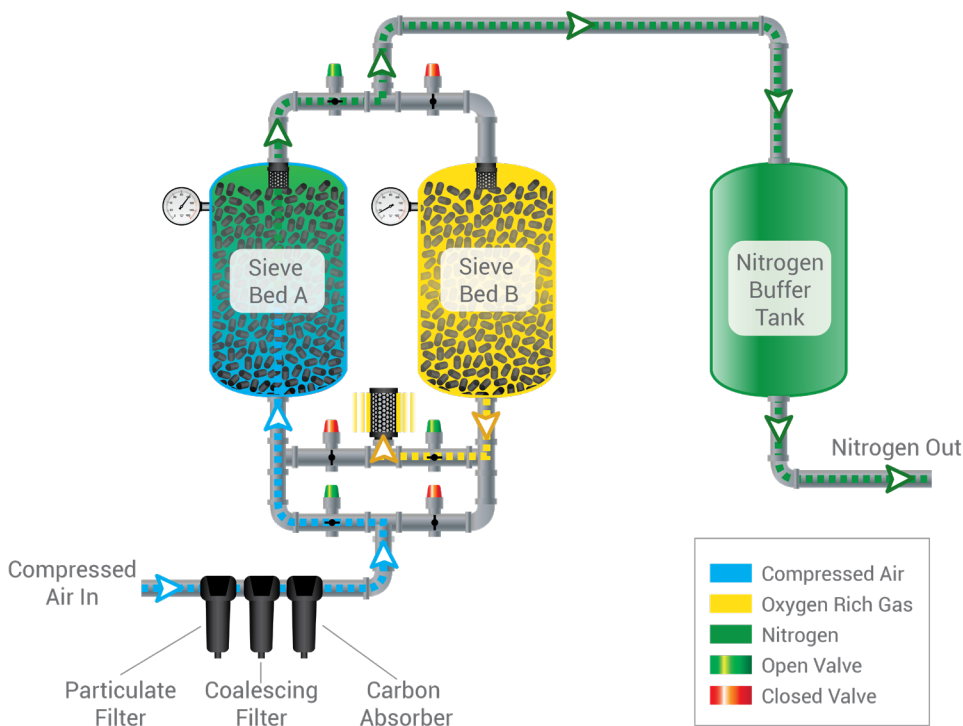
Innovative technology engineered for optimum performance

Dual-Bed, PSA Technology

South Tek's nitrogen generators use dual-bed, PSA technology. The PSA (Pressure Swing Adsorption) filtration delivers 99.99% pure nitrogen while the dual-bed design allows for maximum efficiency and minimal maintenance. Combined, the dual-bed design and PSA technology are a powerful solution with a 20+ year system life*.

South-Tek has over two-decades of history solely focused on nitrogen generation. We've been around, and *will be around* (for the life of your system).

PSA - How it Works



- 1 Compressed air is filtered, removing oil, water, dirt and other impurities
- 2 Sieve Bed A acts as a sponge, using carbon molecular sieve to adsorb oxygen
- 3 Simultaneously, Sieve Bed B is in recovery, oxygen rich off-gas is exhausted into the atmosphere. After a period of time, the process will switch.
- 4 Specified purity nitrogen is discharged into the nitrogen buffer tank, ensuring a steady downstream supply and uninterrupted N₂ usage.

Smart-Trak

A powerful software/user interface, Smart-Trak offers unprecedented control and testing capabilities for the end user.

Smart-Trak allows you to access information such as equipment runtime, time in air bypass mode, current system status, and maintenance reminders. Remotely monitor and manage your nitrogen generator from any mobile device.



* Dependant on system maintenance and run time

N₂GEN[®]

Cost Comparison

High Pressure Bottles	Up to \$25.00+ / CCF
Liquid Dewar	Up to \$5.50+ / CCF
Liquid Bulk Tank	Up to \$1.00+ / CCF
STS Nitrogen Generator	As low as \$0.10 / CCF

When comparing the cost of generating nitrogen to buying in bulk, the Heat Treating industry on average realizes a 80-90% savings.

Cut out the gas company/middleman:

- No missed or delayed deliveries
- No long-term contracts
- Improved safety

Operating and Capital Lease packages available

Request a Quote Today
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The N₂GEN Cabinet Skid Series produces flow rates of up to 2,400 SCFH.

