

N2-GEN[®] - HTS[™] Nitrogen Generation System

Introducing the N2-GEN[®] - HTS Nitrogen Generation System specifically designed for use within Heat Treating, Brazing and Sintering processes. Designed & Manufactured by South-Tek Systems, the leader in Nitrogen Generation Technology.

How it works

Nitrogen has been utilized in the Heat Treating Industry for many years in a variety of applications including blanketing, purging (normal & safety), inert gas processing and much more. Nitrogen is often utilized during the production of both primary goods (billets, ingots, slabs) and secondary goods (component part manufacturing). South-Tek's *tried, tested* and *proven* Nitrogen Generation Technology safely separates the readily available Nitrogen from within the air we breathe.



PSA TECHNOLOGY

- The air contains 79% Nitrogen; our systems mechanically filter out the other gases, concentrating the N2 into a storage tank for your process usage.
- Clean, dry compressed air enters one of the two adsorption vessels, containing Carbon Molecular Sieve (CMS).
- Smaller oxygen and residual molecules (H2, He, etc), are adsorbed into the CMS, allowing the larger Nitrogen molecules to pass through into a storage tank for later process use.
- Upon saturation, a second absorption vessel is brought on line while the first one regenerates and releases its trapped gas.
- Heat Treating applications require a range of purities.

Contact us for a free analysis of your application.

NITROGEN

- Inert, clean, dry, non-flammable gas
- Has a low -40° to -70° F dew point
- Improves process safety and product quality
- Is non-reactive to most materials
- Minimizes surface decarburization
- Minimizes oxidation and prevents corrosion
- Absorbs more moisture than compressed air

APPLICATION EXAMPLES

- | | |
|-------------------------|---------------------|
| • Aging | • Gas Quenching |
| • Annealing | • Hardening |
| • Blanketing | • Normalizing |
| • Blending/Dilution Gas | • Sintering |
| • Brazing/Joining | • Solution Treating |
| • Case Hardening | • Stress Relief |
| • Emergency Purge | • Tempering |

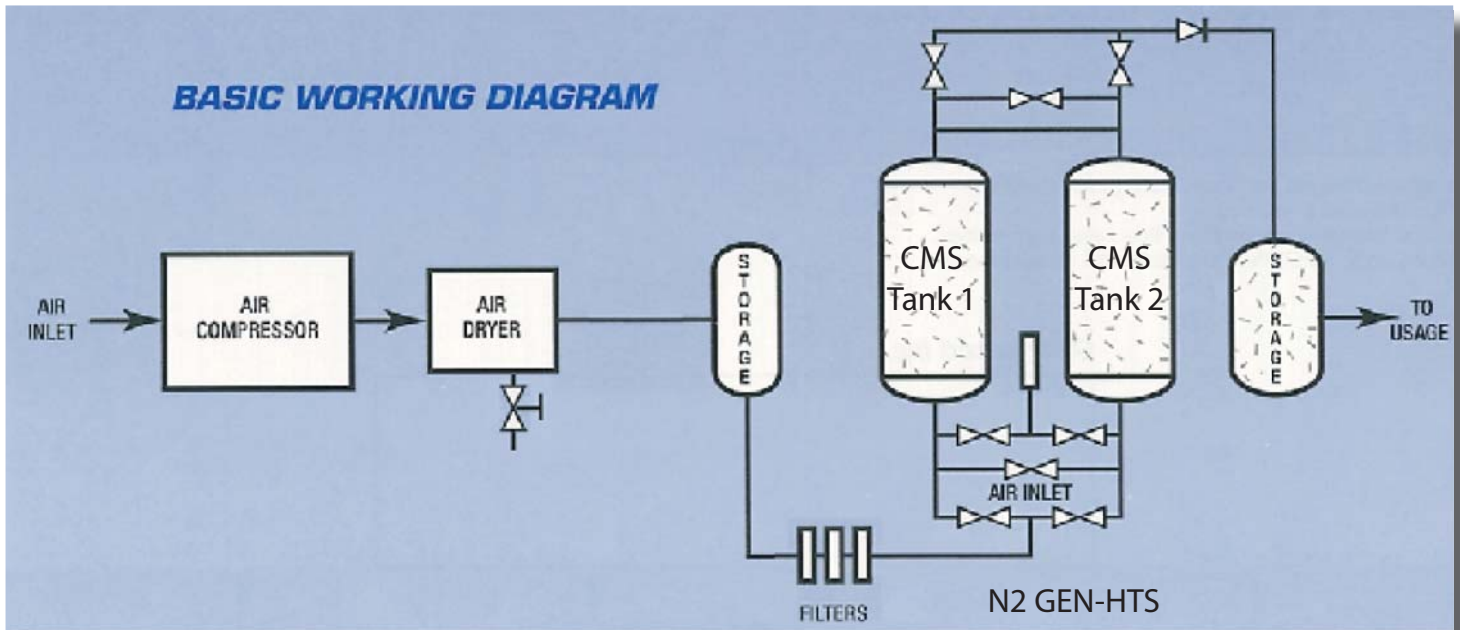
South-Tek Systems, the Leading Designer and Manufacturer of Nitrogen Generation Technology



N2-GEN[®] - HTS[™] Nitrogen Generation System / We ARE Nitrogen.

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N2-GEN[®] HTS[™] Specifications



N2-GEN[®] HTS SERIES

	Type I (Tank-Mounted)	Type II (Compact Skid)	Type III (Skid-Mounted)
N2 Purity (%) ¹	95 - 99.999	95 - 99.999	95 - 99.999
Flow Rate (SCFH)	≤ 1,074	≤ 2,686	≤ 99,908 ²
N2 Pressure Out (max)	115 PSIG	115 PSIG	115 PSIG
Storage Tank	60 / 80 Gallons	Varies	Varies

¹ Purity levels are factory set per factory specifications

² Multiple units can be configured to provide larger flows

CONTACT

For further information, please contact South-Tek Systems:



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SYSTEM BENEFITS

- Automatically generate your own Nitrogen on demand
- Reduce your Nitrogen costs by up to 90%
- No missed deliveries, escalating costs, or contracts to sign
- Fast payback with ROI average 12-14 months over bulk liquid
- System life expectancy of over 20 years
- Unique to STS, Purity Certification included with each system
- Standard 2 year warranty
- Process and application analysis by our heat treating specialists



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