

# N<sub>2</sub>-GEN<sup>®</sup> CS Series - Nitrogen Generator



## Cost Savings.

South-Tek's N<sub>2</sub>-GEN<sup>®</sup> CS Series is more cost-effective than purchasing & maintaining either banks of N<sub>2</sub> cylinders or N<sub>2</sub> liquid bulk storage tanks. In most cases, up to 90% in N<sub>2</sub> cost savings.



## INTRODUCTION

The South-Tek Systems N<sub>2</sub>-GEN<sup>®</sup> CS (Compact Skid) Series Nitrogen Generator is a PSA (Pressure Swing Adsorption) system designed for high purity Nitrogen applications. The N<sub>2</sub>-GEN<sup>®</sup> CS Series has the capability of generating Nitrogen with purities from 95% up to 99.999%.

*"Make your own Nitrogen with the N<sub>2</sub>-GEN<sup>®</sup> CS Series and never wait for a delivery again..."*

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

## PSA TECHNOLOGY

- The air contains 79% Nitrogen; our systems mechanically filter out the other gases, concentrating the N<sub>2</sub> 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 (H<sub>2</sub>, He, etc), are absorbed into the CMS, allowing the larger Nitrogen molecules to pass through into a storage tank for later process use.
- Upon saturation, the first adsorption vessel releases the oxygen while the second adsorption vessel starts the process again.

## NITROGEN

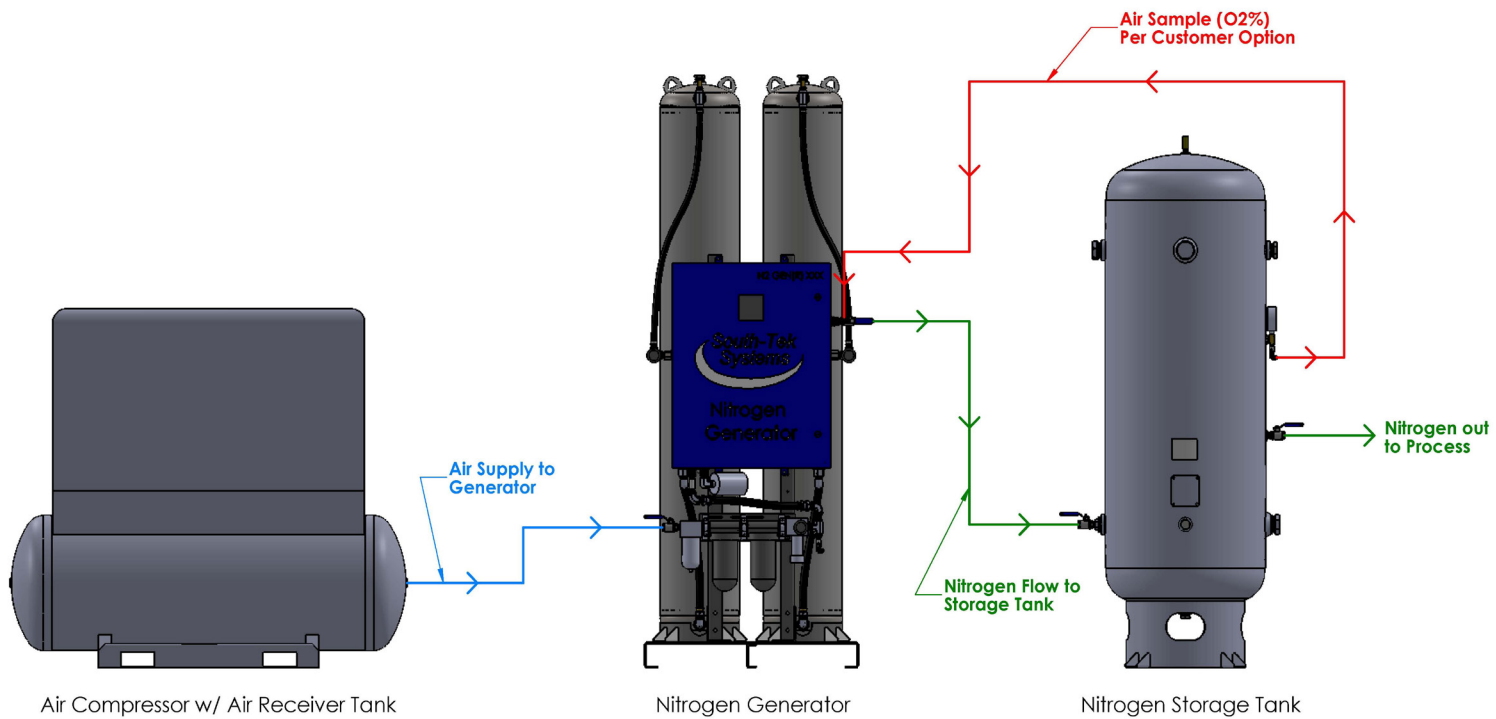
- Inert, clean, dry, non-flammable gas
- Has a true -40° to -70° F dew point
- Does not support the corrosion reaction
- Prevents oxidation of non-metallic components

## N<sub>2</sub> LIQUID BULK FACTS

- Liquid N<sub>2</sub> boils at -320 degrees fahrenheit
- 2% of your tank volume can be lost due to evaporation every 24 hours
- No precise Liquid N<sub>2</sub> volume readings from delivery truck when delivered
- Inconvenient, unsafe, and unreliable
- Locked into a gas contract and constantly paying

# N<sub>2</sub>-GEN<sup>®</sup> CS Series Specifications

## Typical Compact Skid System Installation



## System Benefits

### South-Tek Systems N<sub>2</sub>-GEN<sup>®</sup> CS Series - Nitrogen Generator

- Generate your own Nitrogen on demand
- Reduce your Nitrogen costs by up to 90%
- Fast payback with ROI average 12-14 months over bulk liquid
- DAS / Purity Certification included with each system
- Systems' life expectancy of over 20 years
- No missed deliveries, escalating costs, or contracts to sign
- Fully automatic: production begins when demand downstream is sensed

For further information, please contact South-Tek Systems:



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## Product Specifications

Series: N <sub>2</sub> GEN CS	Compact Skid
N <sub>2</sub> Purity	95% - 99.999%
Flow Rate	47 - 2,686 SCFH
N <sub>2</sub> Pressure Out (max)	115 PSIG
N <sub>2</sub> Storage Tank	Varies
Maintenance	Annual (Filter Kits)
Warranty	1 Year <sup>1</sup>

<sup>1</sup> Per South-Tek Systems Terms & Conditions.

N<sub>2</sub> GEN<sup>®</sup> CS Series - Nitrogen Generator / We ARE Nitrogen.

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