INTRODUCTION

The South-Tek Systems N₂-GEN® CS (Compact Skid) Series Nitrogen Generator is a PSA (Pressure Swing Adsorption) system designed for high purity Nitrogen applications. The N₂-GEN® CS Series has the capability of generating Nitrogen with purities from 95% up to 99.999%.

“Make your own Nitrogen with the N₂-GEN® CS Series and never wait for a delivery again...”

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 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

N₂ LIQUID BULK FACTS

• Liquid N₂ boils at -320 degrees farenheit
• 2% of your tank volume can be lost due to evaporation every 24 hours
• No precise Liquid N₂ volume readings from delivery truck when delivered
• Inconvenient, unsafe, and unreliable
• Locked into a gas contract and constantly paying

Cost Savings.
South-Tek's N₂-GEN® CS Series is more cost-effective than purchasing & maintaining either banks of N₂ cylinders or N₂ liquid bulk storage tanks. In most cases, up to 90% in N₂ cost savings.
Typical Compact Skid System Installation

**System Benefits**

South-Tek Systems
N₂-GEN® 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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www.southteksystems.com

**Product Specifications**

<table>
<thead>
<tr>
<th>Series: N₂ GEN CS</th>
<th>Compact Skid</th>
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</thead>
<tbody>
<tr>
<td>N₂ Purity</td>
<td>95% - 99.999%</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>47 - 2,686 SCFH</td>
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<tr>
<td>N₂ Pressure Out (max)</td>
<td>115 PSIG</td>
</tr>
<tr>
<td>N₂ Storage Tank</td>
<td>Varies</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Annual (Filter Kits)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 Year¹</td>
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¹ Per South-Tek Systems Terms & Conditions.