N2-GEN[®] HTS - Nitrogen Generator

Introducing the N2- GEN® - Heat Treat Series Nitrogen Generation System, specifically designed for use within Heat Treating applications including (but not limited to):

Hardening

Normalizing

Stress Relief

Tempering

- Aging
- Annealing
- Blanketing
- Blending/Dilution Sintering Gas
- Brazing/Joining
- Case Hardening
- Emergency Purge



STS HEAT TREAT SPECIFIC SOFTWARE

South-Tek Systems' exclusive technology makes delivering Nitrogen to laser applications easier than ever. Ask us about:

- EverPure™_ Patent Pending technology that ensures Nitrogen purity consistency.
- SMART-Trac[™] Early down-. stream leak detection to ensure process efficiency
- **Remote PLC Mirroring Op**tion-Allows for nitrogen system monitoring on facility managers computer or on a separate PLC





	Purity	95%-99.999%+	
	Flow Rate	0-100,000 SCFH+	
	Pressure	0-600 PSI+	

-See Page 2 for help with sizing your system-



BENEFITS OF NITROGEN

- Inert, clean, dry, nonflammable gas
- Improves process safety and product quality
- Minimizes oxidation and prevents discolorization
- Has a low -40° to -70° dew point
- Minimizes surface decarburization
- Comes in a range of purities necessary for Heat Treating applications



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N2-GEN[®] HTS Series Specifications



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
- 2 year Standard Warranty

QUESTIONNAIRE

South-Tek Systems is all about systems that are engineered to your true requirements. To determine the best system for your application, please complete the following questionnaire for each furnace:

Continuous Atmosphere Furnace Sizing:

Nitrogen Purity Required:
Nitrogen Hourly Flow Rate:
Nitrogen Pressure at furnace:

Vacuum Furnace N2 Sizing:

Nitrogen Purity Required:		
Amount of N2 used during Quench:		
Hours between Quenches to refill tank:		
Size of quench tank:		
Pressure in tank before quench:		
Pressure in tank after quench:		
Nitrogen pressure going into furnace:		
Is N2 used for Partial Pressure during cycle:		
If so, what is the hourly flow rate:		

<u>ROI Analysis</u>:

Current cost per CCF (100 cubic feet):		
Total Monthly Consumption:		
Tank Rental Fee:		
Delivery Fee:		
Deliveries per month:		
Any additional fees:		
Average Total Montly Cost of N2:		
Electrical cost per KW:		
•		

Emergency Purge N2 Sizing:

Nitrogen Purity Required:	
Nitrogen Hourly Flow Rate:	
How many hours for purge:	
Nitrogen Pressure at furnace: _	

Compressed Air Supply:

Do you have Plant Air Available: yes -or- no (circle) If yes, what is the pressure available: ______ Does the Plant Air have a dryer: yes -or- no (circle) If no, we will be glad to include in quote.

CONTACT

For more information, contact SouthTek Systems:



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