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

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

**BENEFITS OF NITROGEN**

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

**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 downstream leak detection to ensure process efficiency
- **Remote PLC Mirroring Option**- Allows for nitrogen system monitoring on facility managers computer or on a separate PLC

**-See Page 2 for help with sizing your system-**
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: ________________

**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.

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

**Contact**

For more information, contact SouthTek Systems:

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