Nitrogen Generator Cost Compared to Nitrogen Supply

There are major advantages with an onsite nitrogen generator versus purchasing nitrogen from a third party.

- 1. The system typically pays for itself in less than 24 months under continuous operation.
- 2. On demand nitrogen production without wastage.
- 3. Nitrogen production allows monitoring / remote control of the main process parameters displaying flow rate, gas purity, total consumption, hours and maintenance alerts.
- 4. Very low running cost of utility and maintenance.
- 5. No binding contracts, dependency, lost production due to late deliveries, safety issues, administration

The following range of costs have been collected from various types of nitrogen supply by a third party.

Cylinder

\$3.00 - \$15.00 per M3 / \$8.00 - \$40.00 per 100 CF

Micro Bulk (Liquid Dewar)

\$0.70 - \$1.50 per M3 / \$1.80 - \$4.00 per 100 CF

Bulk Liquid

\$0.14 - \$0.75 per M3 / \$0.30 - \$2.00 per 100 CF

On-site Nitrogen Generation:

Additional factors can contribute to slightly different costs like: nitrogen purity, geographic location, utility costs, etc., but typical operating costs including energy and maintenance are:

- < \$0.02 per m³ or \$0.05 per 100 CF for generating 97% nitrogen purity

- \$0.03 - \$0.05 per m³ or \$0.10 - \$0.14 per 100 CF for generating 99.5% nitrogen purity