FLOXAL™ N₂ for Food
On-site nitrogen solutions for the food industry

FLOXAL Solutions

FLOXAL solutions cover the supply of gas generated at your site – using plants invested, operated and maintained by Airgas – meeting your demand specifications of purity, pressure and flow rate, with full back-up and guaranteed performance.

Three molecules are available under the FLOXAL offer for various applications: nitrogen, oxygen and hydrogen. For each molecule, various generation technologies are used to ensure satisfaction of your gas needs at the required specifications and at a competitive price.

Airgas, an Air Liquide company, offers a full range of state-of-the-art plants built to a standard design, ensuring safety, reliability, and cost efficiency for your processes including Modified Atmosphere Packaging (MAP), beverage applications and edible oils inerting.

We guarantee a continuous supply of gas, so you can focus on your business. Full gas availability is ensured through telemonitored performance tracking supported by a network of alarm response centers and qualified service technicians, as well as auxiliary bulk back-up storage at your facility.

FLOXAL N₂ on-site generators meet a range of national and international food quality requirements. The generators can also be tailored to meet unique customer specifications.
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Perimeters are indicative
Airgas will select the most appropriate solution for your flow and purity requirements.

<table>
<thead>
<tr>
<th>Product Line</th>
<th>APSA-T</th>
<th>APSA-S</th>
<th>N₂ PSA</th>
<th>AMSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>LIN-assisted cryogenic distillation</td>
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<td>Adsorption</td>
<td>Membrane</td>
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<tr>
<td>Residual oxygen</td>
<td>1–10 ppm</td>
<td>1–10 ppm</td>
<td>0.5%–2%</td>
<td>2%–5%</td>
</tr>
<tr>
<td>Generator flow range (scfh)</td>
<td>8,000 – 80,000</td>
<td>40,000 – 114,000</td>
<td>6,000 – 60,000</td>
<td>6,000 – 60,000</td>
</tr>
<tr>
<td>Pressure (psig)</td>
<td>80–120</td>
<td>30–120</td>
<td>80–130</td>
<td>80–130</td>
</tr>
<tr>
<td>Key feature</td>
<td>Extensive turndown</td>
<td>Low energy</td>
<td>Adapted purity</td>
<td>Modular</td>
</tr>
<tr>
<td>Food monographs met</td>
<td>FCC³, EC, JECFA, NF 32 or per customer request</td>
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</tr>
</tbody>
</table>

1. LIN = Liquid nitrogen
2. Dependent on inlet air conditions
3. FCC nitrogen specification requirements: N₂ >99%; CO₂ <300 ppm; CO <10 ppm; O₂ <10,000 ppm; NO/NO₂ not applicable

APSA product line delivers the FLOXAL™ promise: peace of mind at best-in-class Total Cost of Ownership

Benefits
- Wide product range to meet various needs
- Flexible modular system design
- Energy efficient operation
- Guaranteed plant up-time
- Automated operation and uninterrupted gas supply
- Quality control through continuous process monitoring and analysis
- Certificate of Conformance provided at customer specifications
- Hazard Analysis and Critical Control Point (HACCP) available upon request

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