Air separation unit for high-purity nitrogen production

Continuous availability of high-purity nitrogen guaranteed

Low energy consumption

Standard and tailor-made solutions in compliance with local and/or international standards

The Air Separation Units, using cryogenic technology, for nitrogen production offer many advantages:
- low energy and operating consumption;
- “skid-mounted” systems up to 4,000 Nm³/h of Nitrogen to simplify delivery and installation;
- ergonomic design of ASUs to simplify maintenance operations;
- indoor and outdoor installation, with layout adaptable to the space available for the plant;
- production of instrument and service air by the system;
- operational control system to guarantee adaptation of the operating cycle to variations in product requirements;
- back-up storage to guarantee availability of the product even in the case of system stoppages;
- remote monitoring of the operational status by remote control performed by SIAD Macchine Impianti.

Technical data
- N₂ purity: 99.9995% and up to 1 ppm of O₂;
- greater availability of liquid nitrogen upon request;
- state-of-the-art technology with turbine production cycles or with addition of Liquid Nitrogen (LIN).

<table>
<thead>
<tr>
<th>ASU Model</th>
<th>Gaseous nitrogen Nm³/h</th>
<th>Availability of liquid nitrogen Nm³/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>GNT 250</td>
<td>250</td>
<td>up to 20</td>
</tr>
<tr>
<td>GNT 600</td>
<td>600</td>
<td>up to 35</td>
</tr>
<tr>
<td>GNT 800</td>
<td>800</td>
<td>up to 50</td>
</tr>
<tr>
<td>GNT 1000</td>
<td>1 000</td>
<td>up to 70</td>
</tr>
<tr>
<td>GNT 1250</td>
<td>1 250</td>
<td>up to 100</td>
</tr>
<tr>
<td>GNT 1500</td>
<td>1 500</td>
<td>up to 150</td>
</tr>
<tr>
<td>GNT 1750</td>
<td>1 750</td>
<td>up to 175</td>
</tr>
<tr>
<td>GNT 2000</td>
<td>2 000</td>
<td>up to 200</td>
</tr>
<tr>
<td>GNT 4000</td>
<td>4 000</td>
<td>up to 400</td>
</tr>
<tr>
<td>GNT 10000</td>
<td>10 000</td>
<td>up to 1 000</td>
</tr>
<tr>
<td>GNT 15000</td>
<td>15 000</td>
<td>up to 1 500</td>
</tr>
<tr>
<td>GNT 20000</td>
<td>20 000</td>
<td>up to 2 000</td>
</tr>
<tr>
<td>GNT 25000</td>
<td>25 000</td>
<td>up to 2 500</td>
</tr>
<tr>
<td>GNT 35000</td>
<td>35 000</td>
<td>up to 3 800</td>
</tr>
<tr>
<td>GNT 50000</td>
<td>50 000</td>
<td>up to 5 000</td>
</tr>
</tbody>
</table>

Made-to-measure solutions available
International construction
and safety standards

The standard design and
construction procedures of SIAD
Macchine Impianti comply with all
the main international standards.

Global Service Division:
a complete range of services

To reduce operating costs and to maintain the high efficiency of its
Air Separation Units, SIAD Macchine Impianti offers its customers
a complete range of services, together with a network of Certified
Service Centres in five continents, operated by skilled technicians.

- **ASU maintenance and supply of spare parts:**
  supply of spare parts;
  maintenance work;
  preventative maintenance;
  predictive maintenance.

- **Remote assistance for ASU management:**
  remote monitoring/parameter checks.

- **On-site support:**
  commissioning and start-up supervision;
  support for unit stop, restart and tuning.

- **Training courses:**
  on-site theoretical and practical courses;
  theoretical and practical courses at the SIAD Macchine Impianti
  works.

For further information:
siadmi_asu@siad.eu

Find out more about our range of services
at our website www.siadmi.com