You require technical or medical gases at several places? CRYOTEC Anlagenbau GmbH offers compact containerized LOX / LIN generation plants which are flexible and easy to transport by truck or aircraft. Our flexible “Plug + Play” can be installed in very short time, at any location, even under extreme climatic conditions worldwide.
Containerized LOX / LIN Plants
Flexible and easily transportable

Based on our customers special requirements, CRYOTEC has developed a mobile LOX/LIN plant for production of liquid oxygen and nitrogen by low pressure cryogenic rectification process. The plant is installed in 2 x 20' containers and meets the technical requirements for the transport by aircraft.

These containers include the complete equipment that is needed for the cryogenic process: air compressor, air cooling and purification unit, cold box with cryogenic heat exchangers, rectification system, expansion turbine and LOX/LIN tanks.

Additionally, the plant can be equipped with LOX/LIN pumps, vaporizers and filling manifold for providing high pressure gaseous oxygen/nitrogen in cylinders.

For plant operation the cold box is set up by means of a hydraulic system while it is folded down for transportation.

The electrical cabinet, the analyzers and the control system for automatic plant operation are stored in a divided part of one of the containers that is fully air-conditioned.

**GENERAL DATA**

<table>
<thead>
<tr>
<th>Operating pressure, approx.:</th>
<th>10 bar g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder filling pressure approx.:</td>
<td>300 bar g</td>
</tr>
<tr>
<td>Power supply:</td>
<td>400 V, 3 ph, 50 Hz</td>
</tr>
<tr>
<td>Mean electrical consumption:</td>
<td>150 kW</td>
</tr>
<tr>
<td>Space required for arrangement:</td>
<td>9.0 m x 11.0 m</td>
</tr>
<tr>
<td>Total plant weight, approx.:</td>
<td>22 tons</td>
</tr>
</tbody>
</table>

**PRODUCT DATA**

**Production Mode I**

- Liquid Oxygen (LOX): up to 15 Nm³/h *
- Oxygen Purity: ≥ 99.5 % by vol.

**Production Mode II**

- Liquid Nitrogen (LIN): up to 15 Nm³/h *

* depending on climate conditions

**Highlights of our Mobile Plants**

- Transportable, also by air freight
- High purity of the products (liquid oxygen, liquid nitrogen)
- High efficiency
- Low space requirement
- Final assembly by plug & play On-Site only power connection required
- Air-conditioned control room in the container
- Storage tanks included in the containers

**Special features of mobile LOX plant**

- Automatic hydraulic system for setting up of cold box
- Easy to start-up using the automatic production mode
- Compact, skid mounted and easy to maintain
- Production of LIN and LOX within one plant