Alpha-Series Oxygen Generators produce from 0.56 to 141.58 m³ (20 to 5,000 ft³) of oxygen per hour at up to 95.5% oxygen concentration. When electricity and a source of compressed air is supplied, these dependable machines can provide oxygen for any application.

**TYPICAL APPLICATIONS**

- **Manufacturing**
  - Cutting/Brazing/Soldering
  - Thermal/Chemical Oxidation
- **Environmental**
  - Ozone (Generator) Feed Gas
  - Environmental Remediation
  - Waste/Water Treatment
- **Medical**
  - Hospital Systems
- **Glass Industry**
  - Glass Work/Manufacturing/Blowing
- **Additional**
  - Fish Farming

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Product characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Flow</strong></td>
<td>1.18-1.45 Nm³/hr (45-55 SCFH)¹</td>
</tr>
<tr>
<td><strong>Product Pressure</strong></td>
<td>310-379 kPa (45-55 psig)¹</td>
</tr>
<tr>
<td><strong>Product Concentration</strong></td>
<td>93%</td>
</tr>
<tr>
<td><strong>Product Dew Point</strong></td>
<td>-73°C (-100°F)</td>
</tr>
<tr>
<td><strong>Dimensions (W x D x H)</strong></td>
<td>43 x 38 x 147 cm (nominal)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>112 kg (246 lb)</td>
</tr>
</tbody>
</table>

**Physical Connections²**

- Compressed Air Inlet: ¼“ FNPT
- Product Gas Outlet: ¼” FNPT

**Control Power Requirements (Single Phase)**

- 120 V ±10%, 50/60 Hz, 1.0 A
- 220 V ±10%, 50/60 Hz, 0.5 A

**227 Liters/60 Gallon Oxygen Receiver Characteristics**

- Dimensions (Dia. x H): 66 x 131 cm (26 x 52 in)
- Weight: 72 kg (159 lb)

<table>
<thead>
<tr>
<th>Ambient Operating Conditions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate the oxygen generator in a well-ventilated area that is protected from weather elements and remains between 4°C (40°F) and 40°C (104°F)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feed Air Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate: Refer to chart on next page. Clean and Dry “Plant Air” (Class 5.6.5 per ISO 8573.1)</td>
<td></td>
</tr>
<tr>
<td>Pressure: 621 kPa (90 psig) minimum</td>
<td></td>
</tr>
<tr>
<td>Temperature: 50°C (122°F) maximum</td>
<td></td>
</tr>
</tbody>
</table>

**FEATURES**

- Produces oxygen from an independent compressed air source
- Microprocessor controlled
- Low operating cost
- Automatic and unattended operation
- Easy to install and maintain

1. Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 0°C / SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F.
2. Hose and applicable adapters included with optional Factory-supplied accessory kits.
**Shipping Information AS-B**

- **Class**: 92.5
- **Commodity Classification Number**: 7311.00.0000
- **Dimensions (W x D x H)**:
  - 61 x 165 x 58 cm (24 x 65 x 23 in) with Accessory Kit(s), Boxed
  - 75 x 165 x 64 cm (29 x 65 x 25 in) with Accessory Kit(s), Crated
  - 64 x 165 x 61 cm (25 x 65 x 24 in) with Accessory Kit(s) and CE Beds, Crated
- **Gross Weight**:
  - 134 kg (295 lb) with Accessory Kit(s), Boxed
  - 171 kg (378 lb) with Accessory Kit(s), Crated
  - 149 kg (328 lb) with Accessory Kit(s) and CE Beds, Crated

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**Oxygen Product Flow Rate (Nm³/h)**

- **Note**: All dimensions are nominal.
- **Oxygen Generator Product Flow Rate (Nm³/h)**
  - 1.27 barg: 40.8
  - 1.37 barg: 30.6
  - 1.47 barg: 20.4

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**Model AS-B Oxygen Generator**

- **Feed Air Requirement**
  - **Class**: 92.5
  - **Commodity Classification Number**: 8421.39.8040

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**Ordering Information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS-B</td>
<td>AS101-1</td>
<td>120 V ± 10%, 50/60 Hz¹</td>
</tr>
<tr>
<td></td>
<td>AS101-2</td>
<td>220 V ± 10%, 50/60 Hz¹</td>
</tr>
</tbody>
</table>

**Accessories**

- **TA150-1**: 227 Liters/60 Gallon Oxygen Receiver
- **KI410-1**: Accessory Kit (interconnecting hoses/fittings and oxygen regulator)
- **KI474-1**: Accessory Kit (oxygen hose - oxygen regulator to use point)
- **KI404-1**: Accessory Kit (manual switch-over manifold for cylinder backup)

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**Note**: All dimensions are nominal.

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An unprotected or inadequately ventilated environment, or improper control power may cause damage to the oxygen generator. All performance ratings based on an ambient temperature up to 38°C (100°F), up to 304.8 meters (1,000 feet) elevation, and 80% relative humidity.