AS-D+

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

Product characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Flow</td>
<td>2.10-2.63 Nm³/hr [80-100 SCFH]¹</td>
</tr>
<tr>
<td>Product Pressure</td>
<td>310-448 kPa [45-65 psig]¹</td>
</tr>
<tr>
<td>Product Concentration (nominal)</td>
<td>93%</td>
</tr>
<tr>
<td>Product Dew Point (nominal)</td>
<td>-73°C [-100°F ]</td>
</tr>
<tr>
<td>Dimensions [W x D x H]</td>
<td>69 x 56 x 175 cm [27 x 22 x 69 in]</td>
</tr>
<tr>
<td>Weight</td>
<td>226 kg [498 lb]</td>
</tr>
</tbody>
</table>

Physical Connections²

<table>
<thead>
<tr>
<th>Connection</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed Air Inlet</td>
<td>¾” FNPT</td>
</tr>
<tr>
<td>Product Gas Outlet</td>
<td>¼” FNPT</td>
</tr>
</tbody>
</table>

Ambient Operating Conditions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</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>

Feed Air Requirements

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</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</td>
<td>621 kPa [90 psig] minimum</td>
</tr>
<tr>
<td>Temperature</td>
<td>50°C [122°F] maximum</td>
</tr>
</tbody>
</table>

Control Power Requirements (Single Phase)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 V – ±10%, 50/60 Hz, 3.0 A</td>
<td></td>
</tr>
<tr>
<td>or 220 V – ±10%, 50/60 Hz, 1.0 A</td>
<td></td>
</tr>
</tbody>
</table>

227 Liters/60 Gallon Oxygen Receiver Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions [Dia. x H]</td>
<td>65 x 131 cm [26 x 52 in]</td>
</tr>
<tr>
<td>Weight</td>
<td>72 kg [159 lb]</td>
</tr>
</tbody>
</table>

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.

FEATURES

- Produces oxygen from an independent compressed air source
- Optional NEMA 4 touchscreen control panel with integrated oxygen concentration monitor
- Microprocessor controlled
- Automatic and unattended operation
- Easy to install and maintain
- Low operating cost
AS-D+

Model AS-D+ Oxygen Generator
Feed Air Requirement**

<table>
<thead>
<tr>
<th>Feed Air Flow Requirement (Nm³/h)*</th>
<th>2.27</th>
<th>2.38</th>
<th>2.49</th>
<th>2.61</th>
<th>2.72</th>
<th>2.83</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 barg</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
<td>51</td>
</tr>
<tr>
<td>3.8 barg</td>
<td>42.5</td>
<td>42.5</td>
<td>42.5</td>
<td>42.5</td>
<td>42.5</td>
<td>42.5</td>
</tr>
<tr>
<td>51</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td>42.5</td>
<td>25.5</td>
<td>25.5</td>
<td>25.5</td>
<td>25.5</td>
<td>25.5</td>
<td>25.5</td>
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<tr>
<td>34</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
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<td>17</td>
</tr>
</tbody>
</table>

Oxygen Product Flow Rate (Nm³/h)*

*Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 0°C
**Time weighted average. Contact factory for air compressor sizing assistance.

Note: All dimensions are nominal.
AS-D+

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS097-1</td>
<td>120 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-2</td>
<td>220 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-3</td>
<td>With NEMA 4 Pressure Switch, 120 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-4</td>
<td>With NEMA 4 Pressure Switch, 220 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-7</td>
<td>With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-8</td>
<td>With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-9</td>
<td>With CE Vessels, 220 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-10</td>
<td>With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 120 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-11</td>
<td>With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 220 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-12</td>
<td>With oxygen concentration monitor (LED indicator), 120 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
<tr>
<td>AS097-13</td>
<td>With oxygen concentration monitor (LED indicator), 220 V – ±10%, 50/60 Hz₁</td>
<td></td>
</tr>
</tbody>
</table>

Accessories

| TA150-1 | 227 Liters/60 Gallon Oxygen Receiver |
| KI425-1 | Accessory Kit (interconnecting hoses/fittings and oxygen regulator) |
| KI425-3 | Accessory Kit (HMI, interconnecting hoses/fittings, isolation valves with oxygen regulator and oxygen filter) |
| KI474-1 | Accessory Kit (oxygen hose - oxygen regulator to use point) |
| KI404-1 | Accessory Kit (manual switch-over manifold for cylinder backup) |

Shipping Information

| AS-D+  | 227 Liters/60 Gallon Oxygen Receiver |
| Class  | 92.5 |
| Commodity Classification Number | 7311.00.0000 |
| Dimensions (W x D x H) | 86 x 104 x 211 cm (34 x 41 x 83 in) with Accessory Kit(s), Boxed |
| | 86 x 104 x 216 cm (34 x 41 x 85 in) with Accessory Kit(s), Crated |
| Gross Weight | 249 kg (549 lb) with Accessory Kit(s), Boxed |
| | 274 kg (605 lb) with Accessory Kit(s), Crated |

₁ Specify oxygen flow and pressure at time of order.

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.