AS-G

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 Work/Manufacturing/Blowing
- Additional
  - Fish Farming

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

SPECIFICATION

<table>
<thead>
<tr>
<th>Product characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Flow</td>
<td>6.57-8.41 Nm³/hr [250-320 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</td>
<td>-73°C [-100°F]</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>91 x 74 x 191 cm [36 x 29 x 75 in]</td>
</tr>
<tr>
<td>Weight</td>
<td>434 kg [956 lb]</td>
</tr>
</tbody>
</table>

| Control Power Requirements (Single Phase) | 120 V – ±10%, 50/60 Hz, 3.0 A  or 220 V – ±10%, 50/60 Hz, 1.0 A |

<table>
<thead>
<tr>
<th>454 Liters/120 Gallon Oxygen Receiver Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Dia. x H)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

⁻ Nm³ [Normal cubic meter] gas measured at 1 atmosphere and 0°C / SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F.

³ Hose and applicable adapters included with optional Factory-supplied accessory kits.

Ambient Operating Conditions

- 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]

Feed Air Requirements

- Flow Rate: Refer to chart on next page. Clean and Dry “Plant Air” (Class 5.6.5 per ISO 8573.1)
- Pressure: 621 kPa (90 psig) minimum
- Temperature: 50°C [122°F] maximum
OXYGEN
GENERATOR

AS-G

Model AS-G Oxygen Generator
Feed Air Requirement**
(93% nominal oxygen)

Feed Air Flow Requirement (Nm³/h)*

<table>
<thead>
<tr>
<th>Oxygen Product Flow Rate (Nm³/h)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.08</td>
</tr>
<tr>
<td>17</td>
</tr>
<tr>
<td>51</td>
</tr>
<tr>
<td>118.9</td>
</tr>
<tr>
<td>186.9</td>
</tr>
</tbody>
</table>

Note: All dimensions are nominal.
## Shipping Information

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
</table>
| AS104-1 | 120 V ± 10%, 50/60 Hz
| AS104-2 | 220 V ± 10%, 50/60 Hz
| AS104-3 | With NEMA 4 Pressure Switch, 120 V ± 10%, 50/60 Hz
| AS104-4 | With NEMA 4 Pressure Switch, 220 V ± 10%, 50/60 Hz
| AS104-7 | With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V ± 10%, 50/60 Hz
| AS104-8 | With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ± 10%, 50/60 Hz
| AS104-9 | With CE Vessels, 220 V ± 10%, 50/60 Hz
| AS104-10 | With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 120 V ± 10%, 50/60 Hz
| AS104-11 | With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 220 V ± 10%, 50/60 Hz
| AS104-12 | With oxygen concentration monitor (LED indicator), 120 V ± 10%, 50/60 Hz
| AS104-13 | With oxygen concentration monitor (LED indicator), 220 V ± 10%, 50/60 Hz
| AS104-16 | With China Approved Vessels, 220 V ± 10%, 50/60 Hz

### Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA151-1</td>
<td>454 Liters/120 Gallon Oxygen Receiver</td>
</tr>
<tr>
<td>KI413-1</td>
<td>Accessory Kit (interconnecting hoses/fittings and oxygen regulator)</td>
</tr>
<tr>
<td>KI413-3</td>
<td>Accessory Kit (HMI, interconnecting hoses/fittings, isolation valves with oxygen regulator and oxygen filter)</td>
</tr>
<tr>
<td>KI476-1</td>
<td>Accessory Kit (oxygen hose - oxygen regulator to use point)</td>
</tr>
<tr>
<td>KI404-3</td>
<td>Accessory Kit (manual switch-over manifold for cylinder backup)</td>
</tr>
</tbody>
</table>

### AS-G

- **Class**: 92.5
- **Commodity Classification Number**: B421.39.8040 7311.00.0000
- **Dimensions (W x D x H)**: B6 x 104 x 211 cm (34 x 41 x 83 in) with Accessory Kit(s), Boxed
  - B6 x 104 x 216 cm (34 x 41 x 85 in) with Accessory Kit(s), Crated
  - 104 x 218 x 97 cm (41 x 86 x 38 in) Horizontal
  - B6 x 104 x 216 cm (34 x 41 x 85 in) with Accessory Kit(s) and CE Beds, Crated
- **Gross Weight**: 452 kg (996 lb) with Accessory Kit(s), Boxed
  - 526 kg (1,159 lb) with Accessory Kit(s), Crated
  - 591 kg (1,303 lb) Horizontal
  - 547 kg (1,205 lb) with Accessory Kit(s) and CE Beds, Crated
  - 161 kg (356 lb)

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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.