AS-R

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
- Glass Industry
  - Glass Work/Manufacturing/Blowing
- Medical
  - Hospital Systems
- Additional
  - Fish Farming

FEATURES

- Produces oxygen from an independent compressed air source
- HMI 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>120 V – ±10%, 50/60 Hz, 3.0 A or 220 V – ±10%, 50/60 Hz, 1.0 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Flow</td>
<td>78.86-97.27 Nm³/hr (3,000-3,700 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) (nominal)</td>
<td>290 x 185 x 399 cm (114 x 73 x 157 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>5,854 kg (12,906 lb)</td>
</tr>
</tbody>
</table>

Physical Connections²

- Compressed Air Inlet 3" ANSI Flange
- Product Gas Outlet 1" NPT

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

Control Power Requirements (Single Phase)

- Dimensions (Dia. x H) 142 x 386 cm (56 x 152 in)
- Weight 907 kg (2,000 lb)

4,013 Liters/1,060 Gallon Oxygen Receiver Characteristics

- 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.
OXYGEN GENERATOR

AS-R

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS-R</td>
<td>AS110-7</td>
<td>With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V ±10%, 50/60 Hz¹</td>
</tr>
<tr>
<td></td>
<td>AS110-8</td>
<td>With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ±10%, 50/60 Hz¹</td>
</tr>
<tr>
<td>Accessories</td>
<td>TA082-1</td>
<td>4,013 Liters/1,060 Gallon Oxygen Receiver</td>
</tr>
</tbody>
</table>

Shipping Information

<table>
<thead>
<tr>
<th>Class</th>
<th>Commodity Classification Number</th>
<th>Dimensions (W x D x H)</th>
<th>Gross Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.5</td>
<td>8421.39.8040</td>
<td>221 x 401 x 191 cm (87 x 158 x 75 in) Generator (No Pallet)</td>
<td>5,770 kg (12,720 lb) Generator (No Pallet)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>122 x 122 x 56 cm (48 x 48 x 22 in) Filter and Pallet</td>
<td>109 kg (240 lb) Filter and Pallet</td>
</tr>
</tbody>
</table>

Time weighted average. Contact factory for air compressor sizing assistance.

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.