

PSA Oxygen Generator

# Topaz Series



Specifically designed for reliability, energy efficiency, and ease-of-use, there are thousands of Topaz PSA Oxygen Generators currently in use throughout the world. The Topaz's ability to deliver up to 95.5% oxygen concentration make it a great fit for a wide range of commercial applications.

## Features

- Self-contained (includes air compressor)
- Heavy duty metal enclosure
- Wall or rack-mount design
- Advanced Engineering
- Ozone/high temperature process tubing
- Quick release fittings for ease of maintenance
- Optional oxygen concentration monitor

## Typical Applications

### Manufacturing

- Jewelry/Brazing/Soldering
- Thermal/Chemical Oxidation

### Artistic

- Glass Work/Blowing

### Environmental

- Ozone (Generator) Feed Gas
- Environmental Remediation
- Waste/Water Treatment

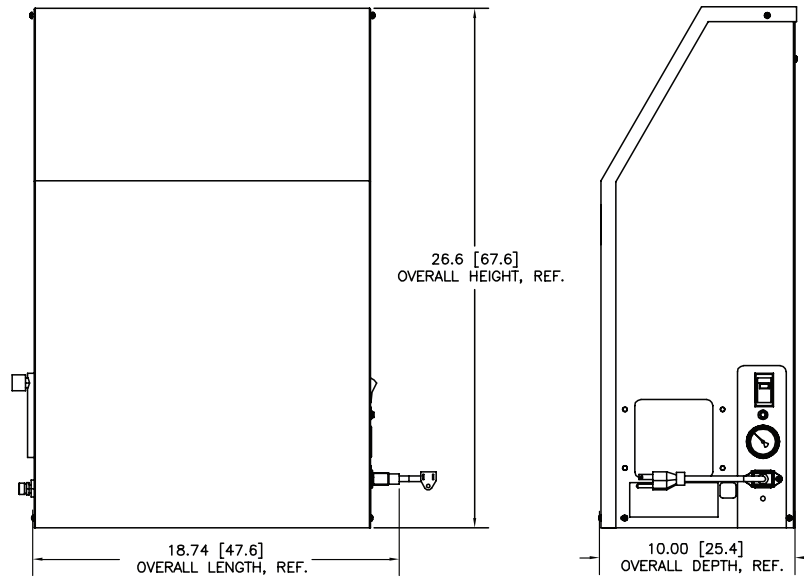
### Additional

- Fish Farming

## Specifications

|   | Topaz   | Topaz Plus  | Topaz Ultra   |
|---|---|---|---|
| <b>Product Characteristics</b>            |   |   |   |
| Product Flow <sup>1</sup>                 | 6 LPM (12 SCFH)   | 8 LPM (17 SCFH)   | 10 LPM (21 SCFH)  |
| Product Pressure                          | 9 psig (62 kPa)   | 20 psig (138 kPa)   | 20 psig (138 kPa)   |
| Product Concentration (nominal)           | 93%   | 93%   | 90%   |
| Product Dew Point                         | -100°F (-73°C)  | -100°F (-73°C)  | -100°F (-73°C)  |
| Dimensions (W x D x H) (nominal)          | 19 x 10 x 27 in (48 x 25 x 68 cm)   | 19 x 10 x 27 in (48 x 25 x 68 cm)   | 19 x 10 x 27 in (48 x 25 x 68 cm)   |
| Weight                                    | 53 lb (24 kg)<br>[Add 2 lb (0.9 kg) for 220 V ~ unit]<br>[Add 20 lb (9 kg) for Stainless]   | 56 lb (25 kg)<br>[Add 4 lb (0.9 kg) for 220 V ~ unit]<br>[Add 20 lb (9 kg) for Stainless] | 58 lb (26 kg)<br>[Add 4 lb (0.9 kg) for 220 V ~ unit]<br>[Add 20 lb (9 kg) for Stainless] |
| Physical Connection Product Gas Outlet    | 1/4" NPT-M/B-M size oxygen adapter  | 1/4" NPT-M/B-M size oxygen adapter  | 1/4" NPT-M/B-M size oxygen adapter  |
| Ambient Operating Conditions              | Locate the oxygen generator in a well-ventilated area that is protected from weather elements and remains between 40°F (4°C) and 112°F (44°C) |   |   |
| Control Power Requirements (Single Phase) | 100V ~ ±10%, 50 or 60 Hz, 5.5 A<br>220V ~ ±10%, 60 Hz, 5.0 A<br>220V ~ ±10%, 50 Hz, 2.5 A   | 120V ~ ±10%, 60 Hz, 5.0 A<br>220V ~ ±10%, 50 Hz, 2.5 A                                    | 120V ~ ±10%, 60 Hz, 6.0 A<br>220V ~ ±10%, 50 Hz, 3.0 A                                    |

<sup>1</sup> LPM (Liters per minute) gas measured at 1 atmosphere and 21°C / SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F



Note: All dimensions are nominal.

## Ordering Information

| Model       | Part Number | Description   |
|-------------|-------------|---|
| Topaz       | AS013-105   | 120 V ~ ±10%, 60 Hz, with painted aluminum enclosure  |
|             | AS013-106   | 220 V ~ ±10%, 50 Hz, with painted aluminum enclosure  |
|             | AS013-107   | 220 V ~ ±10%, 60 Hz, with painted aluminum enclosure  |
|             | AS013-115   | 120 V ~ ±10%, 60 Hz, with stainless steel enclosure   |
|             | AS013-120   | 220 V ~ ±10%, 50 Hz, with stainless steel enclosure   |
|             | AS013-124   | 120 V ~ ±10%, 60 Hz, with painted aluminum enclosure & oxygen concentration monitor (LED indicator) |
|             | AS013-125   | 220 V ~ ±10%, 50 Hz, with painted aluminum enclosure & oxygen concentration monitor (LED indicator) |
| Topaz Plus  | AS018-101   | 120 V ~ ±10%, 60 Hz, with painted aluminum enclosure  |
|             | AS018-102   | 220 V ~ ±10%, 50 Hz, with painted aluminum enclosure  |
|             | AS018-110   | 220 V ~ ±10%, 60 Hz, with painted aluminum enclosure  |
|             | AS018-111   | 120 V ~ ±10%, 60 Hz, with painted aluminum enclosure & oxygen concentration monitor (LED indicator) |
|             | AS018-115   | 220 V ~ ±10%, 60 Hz, with stainless steel enclosure   |
| Topaz Ultra | AS123-2     | 220 V ~ ±10%, 50 Hz, with painted aluminum enclosure  |
|             | AS123-3     | 220 V ~ ±10%, 50 Hz, with stainless steel enclosure   |
|             | AS123-7     | 120 V ~ ±10%, 60 Hz, with painted aluminum enclosure  |
|             | AS123-8     | 120 V ~ ±10%, 60 Hz, with painted aluminum enclosure & oxygen concentration monitor (LED indicator) |
|             | AS123-9     | 120 V ~ ±10%, 60 Hz, with stainless steel enclosure   |
|             | AS123-10    | 120 V ~ ±10%, 60 Hz, with stainless steel enclosure & oxygen concentration monitor (LED indicator)  |

| Shipping Information            | Topaz   | Topaz Plus  | Topaz Ultra   |
|---------------------------------|---|---|---|
| Class                           | 92.5  | 92.5  | 92.5  |
| Commodity Classification Number | 8421.39.8040  | 8421.39.8040  | 8421.39.8040  |
| Dimensions (W x D x H)          | 21 x 12 x 29 in (53 x 31 x 74 cm)   | 21 x 12 x 29 in (53 x 31 x 74 cm)   | 21 x 12 x 29 in (53 x 31 x 74 cm)   |
| Gross Weight                    | 61 lb (28 kg)<br>[Add 4 lb (1.8 kg) for 220 V ~ unit]<br>[Add 20 lb (9 kg) for Stainless] | 64 lb (29 kg)<br>[Add 4 lb (1.8 kg) for 220 V ~ unit]<br>[Add 20 lb (9 kg) for Stainless] | 66 lb (30 kg)<br>[Add 4 lb (1.8 kg) for 220 V ~ unit]<br>[Add 20 lb (9 kg) for Stainless] |

### Warranty: 1 Year Parts and Factory Labor\*

\* An unprotected or inadequately ventilated environment, or improper control power may cause damage to the oxygen generator not covered under warranty.

All performance ratings based on an ambient temperature up to 100°F (38°C), up to 1,000 feet elevation, and 80% relative humidity.

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