

VSA Oxygen Generator – 500 LPM

Technical Data Sheet

Product

Designation: A-500L VSA oxygen generator

The standard generator includes the following components:

- Equipment enclosure
- Oxygen generation tank
- Oxygen buffer tank

The generator is self-contained. The components are skid-mounted and do not require a high-pressure air compressor or air dryer.

Specifications

- Product gas outlet flow rate:
500 liters/minute; 1,060 scfh
- Typical analysis (vol/vol): Oxygen 91% +/- 2%; Argon 4.5% +/- 0.5%; Nitrogen 4.5% +/- 1.5%; CO₂ < 10 ppm; CO < 1 ppm; THC (total hydrocarbons) < 0.1 ppm; H₂O -100°F (-73°C) dew point
- Oxygen delivery pressure: 4–6.5 psig (0.28–0.45 barg)
- Operating temperature range: -12 to 40°C (10 to 104°F)

Power

- Electrical options:
460V, 60Hz, three phase
380/440V, 50Hz, three phase
- Total motor rating: 40 HP
- Power consumption: 25 Kw @ motor design voltage

Physical Characteristics

- Equipment enclosure
Dimensions: 90 in. L x 40 in. W x 55 in. H (2.29 m L x 1.02 m W x 1.4 m H)
Weight: 2,240 lbs. (1,016 kg)
- Oxygen generation tank
Dimensions: 38 in. Dia. x 104 in. H (1 m Dia. x 2.64 m H)
Weight: 1,479 lbs. (671 kg)
- Oxygen buffer tank
Dimensions: 39 in. Dia. x 93 in. L (1 m Dia. x 2.36 m L)
Weight: 2,449 lbs. (1,111 kg)

Customer Installation

The generator can be located either inside or outside a building. In either case, for safety reasons the generator must have sufficient ventilation for cooling of the unit and for the inlet/outlet filter housing (which discharges a nitrogen-rich, oxygen-deficient gas stream).

The equipment can be installed on any firm, level surface. No special foundation is required. Orientation of the equipment is flexible and can be arranged to suit the user's needs. After setting the generator in place, simply connect the power supply, check motor rotation, and connect the product gas outlet.



Options

Oxygen Product Booster Compressor

An optional oxygen product booster compressor is available to raise the product pressure to 50 psig (3.5 barg).

This is designated as A-500LB oxygen booster compressor.

Booster Model 2TX2

Specifications:

- Product gas outlet flow rate: 500 liters/minute; 1,060 scfh
- Oxygen delivery pressure (max): 50 psig (3.5 barg)
- Operating temperature range: -12 to 40°C (10 to 104°F)

Power:

- Electrical options:
208/230/460V, 60Hz, three phase
220/380/440V, 50Hz, three phase
- Motor size:
5 HP
- Power consumption:
3.7 Kw

Physical Characteristics:

- Direct drive (no belts)
- Dimensions: 63 in. L x 39 in. W x 54 in. H (1.60 m L x 0.99 m W x 1.37 m H)
- Shipping weight: 475 lbs. (215 kg)

Spare Parts Kits

- Wearable spares
- Capital spares

Warranty

1 year on parts.

This product is sold for use in industrial applications (including wastewater treatment and aquaculture).

Air Products and Chemicals, Inc. continually improves its products and reserves the right to change specifications or design without notice.

For More Information

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