

VSA Oxygen Generator – 150 LPM

Technical Data Sheet

Product

Designation: A-150L VSA oxygen generator

The standard generator includes the following components:

- Equipment enclosure with 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: 150 liters/minute; 317 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 (0.21–0.45 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
- Total motor rating: 15 HP
- Power consumption: 10 Kw @ motor design voltage

Physical Characteristics

- Equipment enclosure with oxygen generation tank
 - Dimensions: 83 in. L x 42 in. W x 72 in. H (2.11 m L x 1.07 m W x 1.83 m H)
 - Weight: 1,627 lbs. (738 kg)
- Oxygen buffer tank
 - Dimensions: 39 in. Dia. x 93 in. L (1 m Dia. x 2.36 m L)
 - Weight: 697 lbs. (316 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-150LB oxygen booster compressor.

Booster Model 2TX1

Specifications:

- Product gas outlet flow rate: 150 liters/minute; 317 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:
3 HP
- Power consumption:
2.2 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: 450 lbs. (204 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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