

AIRSEP VPSA OXYGEN SYSTEMS

*For Applications with
Large-Capacity Demand*

WORLDWIDE INSTALLATIONS

AirSep Corporation, the world leader in Vacuum Pressure Swing Adsorption (VPSA) technology, offers custom-engineered VPSA Oxygen Systems designed to the specific requirements of installation, with capacities from 3,000 SCFH (79 Nm³/hr) to 115,000 SCFH (3,023 Nm³/hr).

AirSep's high-efficiency, rugged 2-bed VPSA oxygen process design offers extremely low energy consumption, on-stream efficiency of 99%, easy operation, and long-term equipment life of 15 years or more.

AirSep VPSA Oxygen Systems are currently in use all over the world in remote, harsh, and/or demanding environments.

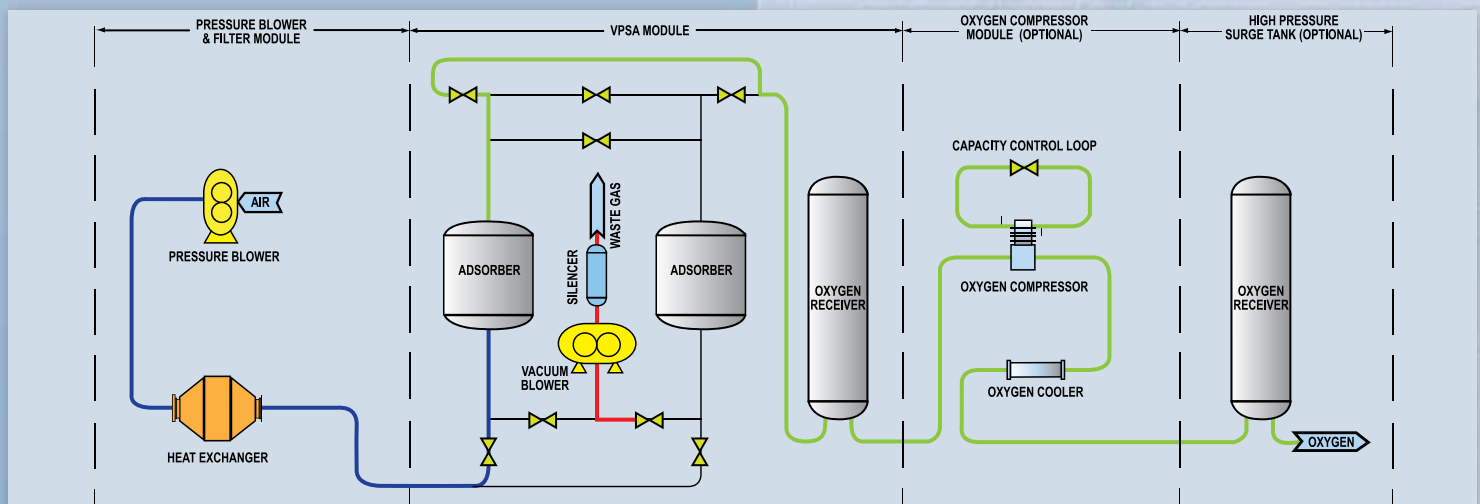
AirSep VPSA Oxygen Systems standard features include:

- Remote monitoring of system operation by AirSep engineers
- Critical process parameters monitored and recorded every 250 milliseconds
- Automatic turndown capability from 100% to 0% flow capacity
- Designed in accordance with local standards
- Automatic and unattended operation
- On-site start-up assistance by AirSep technicians anywhere in the world



AirSep VPSA Oxygen Applications

- Ozone Generation
- Water/Waste-Water Treatment
- Furnace Enrichment
- Steel Mills
- Gold Leaching
- Uranium Recovery
- Oxygen Bleaching and Delignification for Pulp and Paper Mills
- Oxygen Fuel Burners
- Glass Industry



VPSA Tonnage Plant Schematic - Typical

Superior Componentry



Control Panel and
Motor Control Center



Pressure/Vacuum
Blowers and
Motor Assembly



Oxygen Compressor



Manifold Skid

Excellence in design, manufacture with quality parts, and high-level workmanship are the hallmark of all AirSep VPSA systems. True flexibility in custom engineering allows us to develop systems that utilize the specific components that yield the desired capacities with the highest efficiency for each VPSA plant.

SPECIFICATIONS

Model	Capacity	VPSA Building Dimensions
ASV3000	3,000 SCFH (79 Nm ³ /hr)	32 x 24 x 20 ft (9.8 x 7.3 x 6.1 m)
ASV10000	10,000 SCFH (263 Nm ³ /hr)	42 x 24 x 20 ft (12.8 x 7.3 x 6.1 m)
ASV20000	20,000 SCFH (526 Nm ³ /hr)	58 x 33 x 25 ft (17.7 x 10.1 x 7.6 m)
ASV50000	50,000 SCFH (1,314 Nm ³ /hr)	80 x 55 x 30 ft (24.4 x 16.8 x 9.1 m)
ASV115000	115,000 SCFH (3,023 Nm ³ /hr)	90 x 60 x 30 ft (27.4 x 18.3 x 9.1 m)

All AirSep VPSA Oxygen Systems have a guaranteed power consumption of:
1.08 kWh ±5% per 100 SCFH of total flow, nominal 93% oxygen at 3 PSIG product pressure at maximum plant capacity
.41 kWh ±5% per Nm³ of total flow, nominal 93% oxygen at .21 Bar G product pressure at maximum plant capacity.

Note: Specifications subject to change without notice.

Installed VPSA Systems



Steel Mill in El Salvador
ASV14500 (381 Nm³/hr) Plant



Uranium Mine
in Canada
Two ASV24500
(644 Nm³/hr)
Plants



Steel Mill in Brazil
ASV77200 (2,029 Nm³/hr) Plant



Gold Mine in Kazakhstan
Two ASV33000 (868 Nm³/hr) Plants



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