

VPSA Oxygen System Installations



AirSep offers custom-engineered VPSA Oxygen Systems designed to each customer's specific site requirements, with capacities from 2,000 SCFH (53 Nm³/hr) to 120,000 SCFH (3,155 Nm³/hr).

Owner-Operated VPSA Oxygen Systems

	Quantity	Plant Capacity (TPD)	Location	Year Installed	Application
	2	24	McClean Lake, SK, Canada	2006	Ferric sulphate production for use in uranium leaching and other processes.
	1	77	Pará, Brazil	2006	Melt iron scrap in an electric arc furnace at a steel mill.
	1	15	El Salvador	2008	Melt iron scrap in an electric arc furnace at a steel mill.
	2	35	Kazakhstan	2008	Introduction of oxygen into gold slurry leaching and cyanide decontamination systems. An increase in the dissolved oxygen level of gold bearing slurry enhances the gold cyanidation process, thereby increasing gold recovery rates.
	2	39	Melbourne, Australia	2010	Generate ozone for tertiary water treatment. This produces high quality water as it oxidizes contaminants in wastewater.

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	Quantity	Plant Capacity (TPD)	Location	Year Installed	Application
	2	24	Key Lake, SK, Canada	2010	Oxygen injection into leach vessels to promote uranium extraction.
	1	77	Brazil	2011	Melt iron scrap in an electric arc furnace at a steel mill.
	1	27	Rocky Mount, NC, USA	2011	Aerobic wastewater treatment at a facility that originally operated a cryogenic plant (ASU). The AirSep VPSA system (non-cryogenic) cut power costs by over 65%.
	2	45	San Francisco, CA, USA	2014	Secondary wastewater treatment method where microorganisms biologically remove contaminants from the wastewater. This municipal wastewater treatment plant also converted from a cryogenic system.
	2	55	Ivory Coast, Africa	2018	Introduction of oxygen into gold slurry leaching and cyanide decontamination systems at a joint Lycopodium/ Endeavour Mining project site.
	4 2	5.5 11	Hong Kong, China	2018	Ozone generation and water treatment processes in a potable municipal water treatment plant.

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	Quantity	Plant Capacity (TPD)	Location	Year Installed	Application
	2	11	Canada	2018	Gold leaching and cyanide decontamination processes.
	3	11	Canada	2020	Gold leaching and cyanide decontamination processes.
	2	97	Miami-Dade, FL, USA	2021	Aerobic wastewater treatment at a municipal wastewater treatment plant.
	1	43.5	Fort Lauderdale, FL, USA	2022	Aerobic wastewater treatment at a municipal wastewater treatment plant.
	4	15	Hong Kong, China	2022	Ozone generation and water treatment processes in a potable municipal water treatment plant.



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