

Industry Solutions

ULTRAOX VSA

Oxygen Plant

Oxygen Plant ULTRAOX VSA

ULTRAOX VSA oxygen plants were developed by ULTRA CONTROLO to provide total autonomy for the use and production of oxygen on your own plant. With the ULTRAOX VSA large flow of oxygen can be supplied continuously especially for low pressure applications. A very especial zeolite is used to work this phenomena of O₂ separation at low pressure. The system delivers O₂ at a concentration between 75% and 95% at 50 kPa. Higher pressures can be achieved with an additional oxygen booster as part of the supply, on demand.

Our ULTRAOX VSA plants can easily replace existing oxygen cryogenic systems with liquid oxygen tanks or work as main source of supply.

ULTRAOX VSA has a very short payback and it is an ideal solution to save the planet when associated with our ULTRASOL systems (green electricity production plants).

Benefits

Full autonomy for onsite Oxygen production and use
Oxygen at very low cost - less than 0,4 kWh per cubic meter

Totally oil-free clean production systems

Few parts to be assisted with large service intervals

Oxygen dew point less than -50°C @ atm pressure.

Life cycle calculated for 150.000 hours (20 years).

Skid or Container system for easy connection.





Applications

Aquaculture
Wastewater treatment plants
Hydrogen Sulphide (H₂S)
reduction processes.
Gold leaching in mines
Bleaching of pulp
Industrial Furnaces
Breathing Oxygen

MODEL	Flow 90% (m ³ / h)	Flow 90% (kg/h)	Flow 93% (m ³ / h)	Flow 93% (kg/h)	Energy Consumption 90% (50Kpa/kW)	Energy Consumption 90% (800Kpa/kW)
ULTRAOX VSA 180	22	15,4	18	12,6	9	12
ULTRAOX VSA 300	42	29,4	30	21	18	22
ULTRAOX VSA 600	72	50,4	60	42	30	40
ULTRAOX VSA 900	108	75,6	90	63	45	60
ULTRAOX VSA 1200	144	100	120	84	60	75
ULTRAOX VSA 1800	216	151	180	126	90	120
ULTRAOX VSA 2400	288	201	240	168	120	150

Performance data is based on Standard cubic meter 15 ° C / 1 atmosphere 01325 mbar / 40% RH;

Power supply 400B 3ph-50hz (other under requests);

Energy consumption data: +/- 5%;

Purity data can vary up to 2 %;

Other capacities available under request.