

OXYGEN GENERATORS



Oxywise Oxygen generators produce high quality oxygen from compressed air by Pressure Swing Adsorption (PSA) method. Our generators represent reliable and cost effective alternative.

Oxygen purity:	90% - 95%
Min. inlet pressure (air):	7.5barG
Outlet pressure (oxygen):	4barG
Oxygen dew point:	-60°C
Operating conditions:	5°C - 45°C

Make your choice from the extensive selection of standard solutions or ask us to design a custom-made oxygen generator to match your needs. The prices are very feasible.

Standard Product Range

Model	Capacity at 93% O ₂ [Nm ³ /h]	Air consumption [Nm ³ /min]	Operating cost [kW/m ³]
O1	0.8	0.16	1.5
O2	2.0	0.31	1.3
O3	3.0	0.49	1.3
O4	3.7	0.59	1.1
O5	4.5	0.88	1.4
O6	6.5	1.10	1.2
O8	7.8	1.65	1.4
O10	9.5	1.69	1.2
O14	14.0	2.40	1.1
O18	18.2	3.10	1.0
O20	20.0	3.50	1.1
O23	23.0	4.00	1.1
O29	28.8	5.24	1.2
O35	34.5	5.82	1.1
O50	50.0	9.60	1.2
O65	65.0	12.80	1.2
O84	84.0	15.80	1.2
O105	105.0	20.00	1.2
O160	155.0	32.00	1.2
O200	200.0	36.50	1.2



Benefits:

- Flexibility
- Cost-effectiveness
- Safety
- Easy operation
- Reliability

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A full installation comprises a compressor, refrigeration dryer, filters, air tank, generator and oxygen buffer tank.



Scope of supply:

1. Air compressor
2. Cyclone filter with automatic drain
3. Refrigeration dryer
4. Prefilter, particle filter
5. Air tank
6. Oxygen generator
7. Oxygen buffer tank
8. Dust filter

The process

Oxygen Generator consist of two columns filled with molecular sieve (Zeolite). Pre-treated compressed air enters the active column and follows up through the Zeolite. Nitrogen and the other gases are being adsorbed while the oxygen passes through. The active column is pressurized. When pressure is released, column becomes inactive and completely regenerate. In order to secure steady flow two columns are used, one is active while the other is inactive. At the end of cycle they switch roles.

Typical applications

Cutting/Brazing/ Soldering
Fish farming
Glass industry
Gold leaching

Healthcare
Ozone
Veterinary
Water treatment

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Weights and Dimensions

Model	Min. space for installation with full air supply [m]	Generator size [m]	Generator weight [kg]
O1	1.00 W x 2.00 L x 1.55 H	0.45 W x 0.45 L x 1.55 H	160
O2	1.00 W x 2.00 L x 1.30 H	0.60 W x 0.60 L x 1.55 H	100
O3	1.00 W x 2.00 L x 1.60 H	0.60 W x 0.60 L x 1.60 H	150
O4	1.00 W x 2.30 L x 1.50 H	0.60 W x 0.60 L x 1.65 H	180
O5	1.00 W x 3.00 L x 1.90 H	0.70 W x 0.70 L x 1.90 H	230
O6	1.10 W x 4.50 L x 1.75 H	0.90 W x 0.80 L x 1.75 H	400
O8	1.10 W x 4.50 L x 1.75 H	0.90 W x 0.80 L x 1.75 H	700
O10	1.20 W x 5.50 L x 2.10 H	1.20 W x 0.90 L x 2.10 H	950
O14	1.50 W x 6.50 L x 2.10 H	1.20 W x 0.90 L x 2.10 H	950
O18	1.50 W x 7.00 L x 2.40 H	1.30 W x 0.90 L x 2.40 H	1150
O20	1.50 W x 7.50 L x 2.40 H	1.30 W x 1.00 L x 2.40 H	1150
O23	1.50 W x 7.50 L x 2.50 H	2.00 W x 1.00 L x 2.50 H	1850
O29	2.00 W x 8.50 L x 2.50 H	2.00 W x 1.00 L x 2.50 H	2150
O35	2.00 W x 9.60 L x 2.50 H	2.00 W x 2.00 L x 2.50 H	3000
O50	2.50 W x 10.00 L x 3.40 H	2.00 W x 1.00 L x 3.40 H	4200
O65	2.50 W x 9.50 L x 2.50 H	2.00 W x 2.00 L x 2.50 H	3500
O84	3.00 W x 12.50 L x 3.20 H	2.20 W x 2.40 L x 3.20 H	4200
O105	3.00 W x 13.00 L x 3.30 H	2.40 W x 2.40 L x 3.30 H	4900
O160	4.70 W x 14.00 L x 3.20 H	4.00 W x 4.00 L x 3.20 H	8000
O200	4.70 W x 15.00 L x 3.30 H	4.00 W x 4.00 L x 3.30 H	9400

Technical Data

Ambient temperature range:		5°C - 45°C
Oxygen outlet pressure:		4barG
Oxygen dew point:		-60°C
Air inlet pressure:		7.5barG
Inlet air quality:	Dew point:	3°C
	ISO:	8573.1:2001.2.4.1
	Filtration grade:	0.01 micron
Power supply:	Generator:	240-110 V / 50-60 Hz
	Compressor:	400-440 V / 50-60 Hz

Pressure up to 200barG can be reached with a high pressure compressor. System can be integrated with filling ramp for bottle filling if required.