MÁY TẠO KHÍ OXY (O2), OXYMAT - ĐAN MẠCH

Our Oxygen Product range covers 45 standard models with capacity in the range from 0,7 to 409,81 m3/hour

Flow is meassured in Sm3/h and the performance is up to 95,0 % purity.

X-versions 3 to 6 are supplied as framebuilt solutions, buffer vessels, filters, Advanced control, dewpoint, pressure, temperature, flow, purity and remote monitoring included.

STANDARD MODEL:	Flow Sm³/hour *1Purity % *3				
	90%	92%	93%	94%	95%
O010 ECO	N/A	N/A	0.76	0.73	0.70
O020 ECO	N/A	N/A	1.73	1.67	1.60
O040 ECO	N/A	N/A	2.48	2.39	2.30
O060 ECO	N/A	N/A	3.49	3.36	3.23
O070 ECO	4.92	4.74	4.60	4.38	4.18
O100 ECO v1	7.28	7.00	6.80	6.48	6.18
O100 ECO v2	8.56	8.24	8.00	7.62	7.27
O170 ECO v1	10.70	10.30	10.00	9.52	9.09
O170 ECO v2	12.84	12.36	12.00	11.43	10.91
O230 ECO v1	15.52	14.94	14.50	13.81	13.18
O230 ECO v2	18.40	17.72	17.20	16.38	15.64
O330 ECO v1	21.40	20.60	20.00	19.05	18.18
O330 ECO v2	23.54	22.66	22.00	20.95	20.00
O330 ECO v3	26.75	25.75	25.00	23.81	22.73
O500 ECO v1	28.89	27.81	27.00	25.71	24.55
O500 ECO v2	33.17	31.93	31.00	29.52	28.18
O500 ECO v3	41.73	40.17	39.00	37.14	35.45
O500 ECO v4	47.08	45.32	44.00	41.90	40.00
O600 ECO v1	51.36	49.44	48.00	45.71	43.64
O600 ECO v2	58.85	56.65	55.00	52.38	50.00
O600 ECO v3	68.48	65.92	64.00	60.95	58.18
O800 ECO v1	80.25	77.25	75.00	71.43	68.18
O800 ECO v2	85.60	82.40	80.00	76.19	72.73
O600x2 ECO v1	120.91	116.39	113.00	107.62	102.73
O600x2 ECO v2	125.19	120.51	117.00	111.43	106.36
O800x2 ECO v1	139.10	133.90	130.00	123.81	118.18
O800x2 ECO v2	149.80	144.20	140.00	133.33	127.27
O800x2 ECO v3	176.55	169.95	165.00	157.14	150.00
O800x2 ECO v3	177.62	170.98	166.00	158.10	150.91
O600x3 ECO	214.00	206.00	200.00	190.48	181.82
O800x3 ECO v1	243.96	234.84	228.00	217.14	207.27
O800x3 ECO v2	254.66	245.14	238.00	226.67	216.36
O800x4 ECO v1	273.92	263.68	256.00	243.81	232.73
O800x4 ECO v2	326.35	314.15	305.00	290.48	277.27
O800x4 ECO v3	331.70	319.30	310.00	295.24	281.82
O800x5 ECO	417.30	401.70	390.00	371.43	354.55

O600x2 ECO Low Pres	119.84	115.36	112.00	106.67	101.82
O800x2 ECO Low Pres	145.52	140.08	136.00	129.52	123.64
O600x3 ECO Low Pres	171.20	164.80	160.00	152.38	145.45
O800x3 ECO Low Pres	214.00	206.00	200.00	190.48	181.82
O800x4 ECO Low Pres	288.90	278.10	270.00	257.14	245.45
O800x5 ECO Low Pres	342.40	329.60	320.00	304.76	290.91

Conversion rates for oxygen: 1 Sm3 = 1.31 kg, 1 Nm3 = 1.43 kg: 1 kg = 0.76 Sm3 & 0.70 Nm3

1 Sm3 = 0.92 Nm2

1 Nm3 = 1.09 Sm3

Notes:

***1** – Stated flow in Sm³/hour are for operation with reference to 15°C, 981 mbar. Inlet pressure 7 barG. Flow variance ±5%*

***2** – Stated air consumtions in FAD m³/min are for operation with reference to 20°C, 1 barA, -acc. to ISO1217c.*

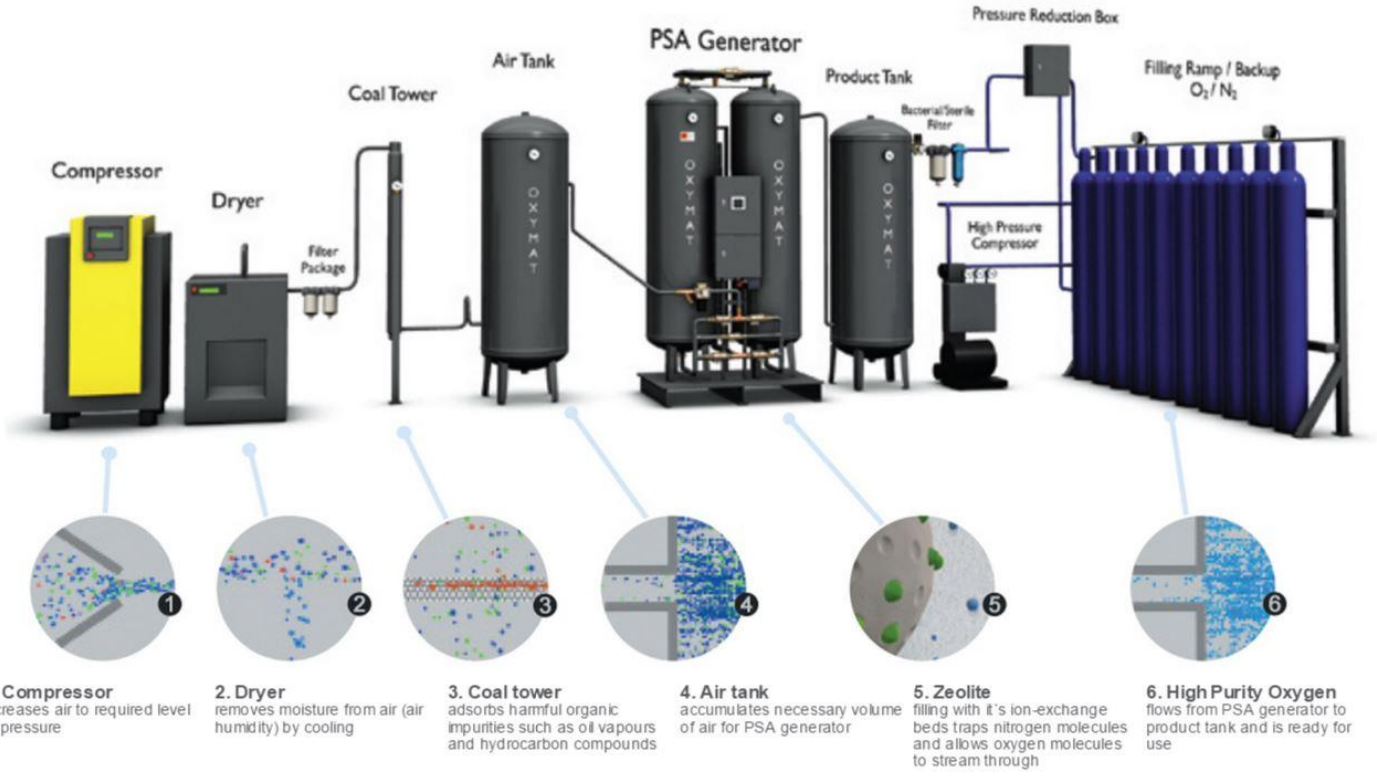
***3** – Purity variance ±1%*

***4** -Capacity of the plant is stated at 30°C ambient air temperature. Variance±5%*

Oxygen Generator System

3D Scheme

The PSA process is an extremely clean operation and the only ‘raw material’ is ‘air’. On-site generators allow for an uninterrupted supply of gas with a high purity output. This means that you can produce gas where and when you need it, and in the exact quantity and quality you need.



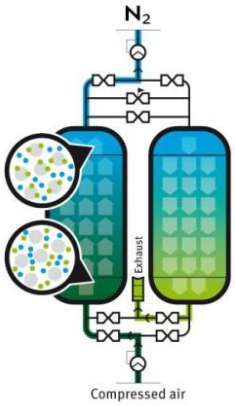
How it works

At Oxymat, we use two columns with molecular sieves to ensure continuous production.

Dry compressed air is blown through a valve to the vessel where the pressure is built to reach 5 to 7 bar(g). Nitrogen is tied to a molecular sieve during the building of pressure, and the oxygen is allowed to pass through to the accumulation tank.

While pressure is build in one vessel, the second remains without pressure. A part of the produced gas is used for regeneration of the molecular sieve.

For Oxygen, Zeolite type 13X is used. The molecular sieve is fully regenerative and has a life span on to 40.000 operation hours.



The entire PSA system can be subdivided into:

Compressed air system (Air compressor, Refrigeration dryer, Air receiver & Filters)

PSA skid, Oxygen receiver, Oxygen boosting & Filling Station (optional)

Optional supplies:

Panel Display with electro galvanized sensor, Touch Screen with zirconium sensor, GSM modem for touch Screen

Medical upgrade kit (Coalescing tower and bacterial filtration)

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