

OXYGEN GENERATOR IMT-PO

> OXYGEN GENERATED IN PSA RANGE

By using pressure swing adsorption technology we generate oxygen purities of up to 99.5 % with capacities from 0.5 – 5.000 Nm³/h on-site.

Performance at purities of up to 99,5% O₂

The IMT-PO Oxygen Gas Generator ensures on-site oxygen production. The compact design enables maximum performance and requires minimum space. In case of relocation, the IMT-PO units can be adjusted to new site conditions easily. Compressed air from an on-site source is required for oxygen generation.

The air first passes through pre-filter units which eliminate impurities such as humidity, oil vapours, particles and hydrocarbons. The filtrated compressed air stream is then channelled through two zeolite molecular strainers, which remove nitrogen and carbon dioxide molecules from the compressed air. The two strainers alternate between filter and regeneration mode in order to ensure a continuous flow of oxygen.

The oxygen generated by this process can then be used for a wide variety of applications.

All parameters such as compressed air temperature, pressure, oxygen purity and oxygen pressure are monitored continuously. The efficiency of the INMATEC Oxygen Generators guarantees savings right from the start.

The standard model features a touchscreen panel and can be remotely-controlled from any computer in the world.

> ONSITE IS OUR WORLD



O₂

Options:

- Pressure up to 300 bar
- Flow meter
- Voltage adaptor
- Pressure dew point indicator

OXYGEN GENERATOR

IMT-PO

Compressed air specification

Max. operating pressure: 10 bar
 Temperature range: + 10 bis + 40 °C
 Air quality: according to ISO 8573.1
 class 1 dirt and oil
 class 4 water
 Pressure dew point: + 3 °C

Ambient conditions

Temperature range: - 50 °C – + 60 °C (frost-free)

Special design

Stainless steel, Ex-proof, Atex, IP 65, ASME

Technical data and connections

Dimensions L x W x H (mm): 925 x 560 x 1285 (PO-1150 and PO-1250), 1000 x 1000 x 1710 (PO-1350), > PO-2000 special dimensions

Connections: according to type of unit (details on request)

Mains connection: 230 V / 50 Hz (earthing type plug)

Noise level: from 45 up to max. 75 dB(A)



SCESm 001
CE 1250



ISO 13485:2003



Zertifiziert nach ISO 9001:2008

Capacity (Nm³/h)

Oxygen purity (%)	90,0	92,0	93,0	94,0	95,0
IMT-PO 1150	0,60	0,60	0,60	0,50	0,50
IMT-PO 1250	1,20	1,10	1,10	1,10	1,10
IMT-PO 1350	2,30	2,20	2,13	2,10	2,00
IMT-PO 2000	3,20	3,10	3,00	2,90	2,80
IMT-PO 2150	4,50	4,30	4,20	4,10	3,90
IMT-PO 2250	6,60	6,30	6,10	6,00	5,70
IMT-PO 2350	7,80	7,50	7,20	7,10	6,70
IMT-PO 3000	11,00	10,40	10,00	9,80	9,30
IMT-PO 3150	15,00	14,30	14,00	13,60	12,90
IMT-PO 3250	18,00	17,20	16,80	16,30	15,40
IMT-PO 3350	21,00	20,00	19,40	19,00	18,00
IMT-PO 3450	30,00	29,00	28,00	27,00	26,00
IMT-PO 3550	38,00	36,00	35,00	34,00	33,00
IMT-PO 3650	45,00	43,00	41,00	40,00	38,00
IMT-PO 3750	53,00	50,00	49,00	48,00	45,00
IMT-PO 3850	78,00	74,20	72,00	70,30	66,40
IMT-PO 3950	84,00	80,00	77,40	76,00	72,00
IMT-PO 4050	90,00	86,00	83,00	81,00	77,00
IMT-PO 4150	108,00	103,00	99,50	97,30	92,00
IMT-PO 4250	132,00	125,40	121,50	119,00	112,30
IMT-PO 4350	156,00	148,30	144,00	140,50	133,00
IMT-PO 4450	198,00	188,20	182,30	172,00	168,40
IMT-PO 4550	240,00	228,00	221,00	216,00	204,00

Oxygen purity (%) 99,5

IMT-PO 5000	2,0
IMT-PO 5150	5,0
IMT-PO 5250	10,00
IMT-PO 5350	15,00
IMT-PO 5450	20,00

All values are at 20°C ambient temperature.