

OXYGEN-GENERATOR

IMT-PO OnTouch

> PERMANENT O₂ SUPPLY

INMATEC OnTouch oxygen technology enables oxygen to be supplied in a purity of up to 99.5% and quantities of 0.5 – 2,000 Nm³/h.

PROCESS:

IMT-PO oxygen generators guarantee oxygen production on site. First, standard inlet filtration removes impurities, such as moisture, oil vapours, particles and hydrocarbons. In the next step, zeolite, a synthetic crystalline aluminium silicate, adsorbs the nitrogen and carbon dioxide molecules from the previously cleaned compressed air in the two molecular sieve beds. The free oxygen molecules flow unhindered into the product container. In order to ensure a constant oxygen flow, the two sieves alternate between adsorption mode and regeneration mode. The oxygen produced in this way can now be used in a wide variety of applications.

BENEFITS:

Constant quality control is ensured by measuring oxygen purity. All measured values are recorded and saved using our user-friendly INMATEC touch control panel and can be monitored remotely from anywhere in the world with internet access.

The effectiveness of the new technology promises savings from the very first minute.

Low-maintenance valve technology and compact design are further benefits in addition to the constant availability of pure oxygen.

A multilingual touch control panel, remote control via PC and iPad, long-term data storage, inlet and outlet filtration and automatic restart in medical applications all come as standard.



> ONSITE IS OUR WORLD



Options:

Measured values:

- Flow
- Pressure dew point
- Inlet pressure
- Temperature
- CO
- CO₂

Interfaces:

- Modbus
- Profibus
- GSM
- VMC

Availability:

- Redundant
- Load change control
- Modular extension
- Recipe control

High pressure:

- up to 300 bar
- System control





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Compressed air specification

Temperature range: +5 to +50°C
Air quality: ISO 8573.1, Class 1: dirt and oil, Class 4: water
Pressure dew point: +3°C

Ambient conditions

Temperature range: +5°C to +40°C
Option:
Temperature range: -50°C to +60°C

Technical dimensions and connections

Dimensions H x W x D (mm): 925 x 560 x 1285 (PN-1150 and PN-1250)
1000 x 1000 x 1710 (PN-1350 and PN-1450)
from PN-2150 special dimensions on request

Operating pressure: 11 bar
Electrical connection: 110-230 V/60-50 Hz (shock-proof plug)
Noise level: from 55 to max. 85 dB(A)

Certified in accordance with DIN ISO 9001:2008, DIN ISO 13485:2003, DIN ISO 10083:2008 and in accordance with Pressure Equipment Directive 93/27/EC

Special design

Stainless steel, explosion protection, Atex, IP 65, ASME



DIN ISO 10083:2008



ISO 13485:2003



SCESm 001
CE 1250



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	1,00	1,00
IMT-PO 1350	2,40	2,30	2,30	2,10	2,00
IMT-PO 1450	3,60	3,50	3,30	3,10	3,00
IMT-PO 2150	5,40	5,20	5,00	4,50	4,30
IMT-PO 2350	8,90	8,50	8,10	7,40	7,10
IMT-PO 3000	12,90	12,30	11,60	10,50	9,80
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	38,00	36,00	35,00	34,00	33,00
IMT-PO 3650	53,00	50,00	49,00	48,00	45,00
IMT-PO 3850	84,00	80,00	77,40	76,00	72,00
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

High purity (%)

99,5

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

All values are valid at 7 bar inlet pressure and 20°C ambient temperature.