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

QUALITY MADE IN GERMANY
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

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)


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

Capacity (Nm³/h)

| Oxygen purity (%) | IMT-PO 1150 | IMT-PO 1250 | IMT-PO 1350 | IMT-PO 1450 | IMT-PO 2150 | IMT-PO 2350 | IMT-PO 3000 | IMT-PO 3150 | IMT-PO 3250 | IMT-PO 3350 | IMT-PO 3450 | IMT-PO 3650 | IMT-PO 3850 | IMT-PO 4150 | IMT-PO 4250 | IMT-PO 4350 | IMT-PO 4450 | IMT-PO 4550 |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90,0              | 0,60        | 1,20        | 2,40        | 3,60        | 5,40        | 8,90        | 12,90       | 15,00       | 18,00       | 21,00       | 28,00       | 35,00       | 43,00       | 50,00       | 60,00       | 70,00       | 80,00       | 90,0        |
| 92,0              | 0,60        | 1,10        | 2,30        | 3,30        | 5,20        | 8,50        | 12,30       | 14,30       | 17,20       | 20,00       | 27,00       | 34,00       | 41,00       | 48,00       | 57,00       | 66,00       | 75,00       | 84,0        |
| 93,0              | 0,60        | 1,00        | 2,20        | 3,10        | 4,50        | 7,40        | 11,00       | 13,00       | 16,00       | 18,00       | 26,00       | 33,00       | 40,00       | 47,00       | 56,00       | 65,00       | 74,00       | 83,0        |
| 94,0              | 0,50        | 1,00        | 2,10        | 3,00        | 4,00        | 7,00        | 11,00       | 13,00       | 16,00       | 17,00       | 25,00       | 32,00       | 39,00       | 46,00       | 54,00       | 63,00       | 72,00       | 81,0        |
| 95,0              | 0,50        | 1,00        | 2,00        | 3,00        | 2,90        | 6,00        | 10,00       | 12,00       | 15,00       | 16,00       | 23,00       | 30,00       | 37,00       | 44,00       | 51,00       | 60,00       | 70,00       | 79,0        |

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.