

NITROGEN GENERATOR IMT SN, MN, LNX

MEMBRANE - NITROGEN PURITY UP TO 99,5 %

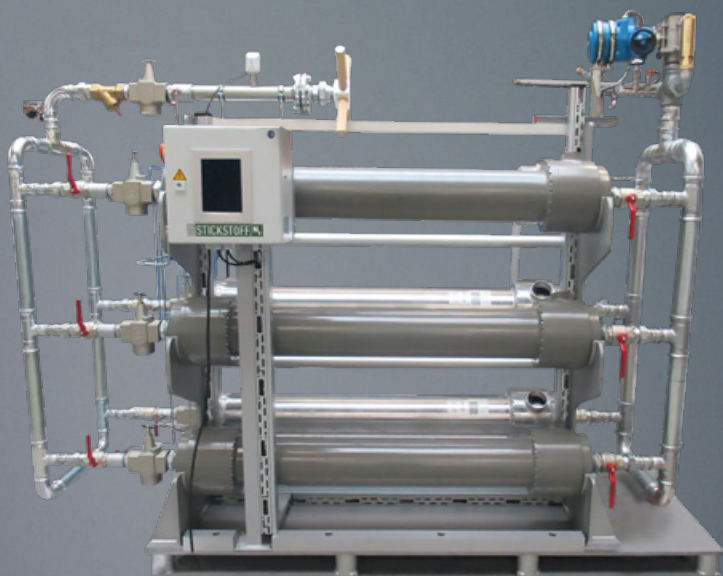
Benefit from economical and cost-saving systems for continuous nitrogen production (Purity: 95% – 99.5% / Delivery Quantities: 0,14 – 2.010 Nm³/h).

PERMANENT N₂ SUPPLY

PROCESS:

The core of the system consists of hollow fiber membranes. The various air molecules diffuse at different speeds through these membranes.

Compared to oxygen, nitrogen has a very low diffusion rate. While O₂ virtually rushes through the hollow fibers, N₂ slowly flows through the membrane, and is thus enriched. The flow rate of the gas through the membrane determines the purity of the nitrogen.



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ADVANTAGES:

- Space-Saving and Compact Design
- Simple Assembly
- Permanent Availability
- Low-Maintenance Membrane
- Consistent High Nitrogen Quality
- Minimal Operating Costs

ADDITIONAL STANDARDS FOR MN & LNX:

- Residual Oxygen Measurement
- Multilingual Touch Control Panel L
- Remote Control via PC/iPad
- Long Term Data Storage
- Automatic Restart in case of Power Failure



Options:

- Pressure Booster
- Stainless Steel Model
- Alarm Function
- Back-Up System
- Redundant Design





NITROGEN GENERATOR

IMT SN, MN, LNX

Compressed Air Specifications

Temperature Range: +5 °C up to +50 °C

Air Quality: ISO 8573.1, Class 1: Dirt and Oil, Class 4: Water

Pressure Dew Point: +3 °C

Operating Pressure

Operating Pressure SN & MN: 13 bar max.

Operating Pressure LNX: 8 bar max.

Connections

Electric Supply: 230 V / 50 Hz (other voltages on request)

Noise Level: From 48 to max. 75 dB(A)

Special Design

Stainless Steel, ATEX, IP 65, ASME

Calculation of the Compressed Air Requirement

Multiplying the Nitrogen Capacity by the Air Factor indicated below shows the compressed air requirements.

Nitrogen Content:	95 %	96 %	97 %	98 %	99 %	99,5 %
Air Factor SN & MN:	2,6	3,0	3,5	4,3	6,3	8,4
Air Factor LNX:	2,6	2,5	2,8	3,3	4,5	–



ISO 9001:2015

Certified quality management system in accordance with ISO 9001:2015.

Capacity (Nm³/h)

Nitrogen Purity	95 %	96 %	97 %	98 %	99 %	99,5 %
IMT SN 450	1,14	0,93	0,73	0,52	0,29	0,14
IMT SN 750	2,28	1,86	1,46	1,04	0,58	0,28
IMT SN 950	2,80	2,30	1,90	1,40	0,90	0,60
IMT SN 1150	4,00	3,30	2,60	1,90	1,20	0,70
IMT SN 1750	6,20	5,10	3,90	3,10	2,10	1,40
IMT SN 2250	7,30	6,00	4,60	3,60	2,40	1,50
IMT SN 2850	9,00	7,40	5,80	4,50	3,00	1,90
IMT SN 3350	12,30	10,20	7,80	6,20	4,10	2,80
IMT MN 1050	25,00	20,00	15,00	11,00	6,70	4,70
IMT MN 1150	40,00	33,00	26,00	19,00	11,00	7,00
IMT MN 1250	80,00	66,00	52,00	38,00	22,00	14,00
IMT MN 1350	120,00	99,00	78,00	57,00	33,00	21,00
IMT MN 1450	160,00	132,00	104,00	76,00	44,00	28,00
IMT LNX 1150	201,00	161,00	121,00	89,00	54,00	–
IMT LNX 1250	402,00	322,00	242,00	178,00	108,00	–
IMT LNX 1350	603,00	483,00	363,00	267,00	162,00	–
IMT LNX 1450	804,00	644,00	484,00	356,00	216,00	–
IMT LNX 1550	1.005,00	805,00	605,00	445,00	270,00	–
IMT LNX 1650	1.206,00	966,00	726,00	534,00	324,00	–
IMT LNX 1750	1.407,00	1.127,00	847,00	623,00	378,00	–
IMT LNX 1850	1.608,00	1.288,00	968,00	712,00	432,00	–
IMT LNX 1950	1.809,00	1.449,00	1.089,00	801,00	486,00	–
IMT LNX 2050	2.010,00	1.610,00	1.210,00	890,00	540,00	–

All values apply at 7 bar inlet pressure, 20 °C ambient temperature and 20 °C compressed air temperature.

All information without guarantee and not legally binding.