

NITROGEN GENERATOR

IMT PNC

NEW



PNC - THE OPTIMAL SOLUTION FOR N₂ SELF SUPPLY

The INMATEC PNC nitrogen technology produces nitrogen with a purity of up to 5.0 / 10 ppm (residual oxygen) and in quantities of 10,7 – 2.849,6 Nm³/h.

PROCESS:

The INMATEC Pressure Swing Adsorption Process separates the nitrogen molecules from the oxygen molecules. You can now use high-purity N₂ in a wide range of applications.

Latest Flow Technique and Innovative Rotator Engineering are reducing the demand of compressed air and lowering energy costs significantly.

The process optimizes the cycle times in the N₂ production. In combination with compressors with optimized rotational speed the compressed air demand can also be significantly lowered.

ONSITE IS OUR WORLD

ADVANTAGES:

- Higher Efficiency, Low Maintenance
- Easy, Reliable and Documented Supply of Pure Nitrogen
- Automatic Cleaning System (Auto Pure System)
- Filtration as Standard
- Consumption Controlled Technology
- Constant, Redundant Measurement of the N₂ Purity and the Outlet Pressure
- Easy Handling & Control: Touch-Control-Panel L, Integrated Flow Measurement & Dew Point Sensor
- Sensors: Inlet Pressure, Temperature
- NKAT Extension included

Options:

- Redundant
- Basic Load Change Control
- Modular Extension
- Modbus
- Profibus
- Dew Point Product
- Remote Monitoring Box





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Compressed Air Specifications

Temperature Range: +5° C 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

Optional Temperature Range: -50° C to +60° C

Technical Data

Electric Supply: 230 V / 50 Hz (110 V / 60 Hz)

Power Consumption: 150 W

Protection Class: IP 54

Noise Level: From 55 to max. 85 dB(A)

Operating Pressure: Up to 11 bar (Standard: 7 bar)

Special Design

Stainless Steel, ATEX, IP 65, ASME, Marine Design, TRCU



ISO 9001:2015

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

Capacity (Nm³/h)

Nitrogen Content Quality Residual O ₂ (PPM)	95%	97%	98%	99%	99.5%	99.9%	99.99%	99.995%	99.999%	99.9999%
				2.0	2.5	3.0	4.0	4.5	5.0	6.0
						1.000	100	50	10	1
IMT PNC 9000	122,1	104,9	93,6	71,7	58,4	37,6	23,6	16,8	10,7	
IMT PNC 9100	145,6	127,6	108,1	87,5	73,0	48,2	27,9	21,0	14,2	
IMT PNC 9200	219,4	191,7	161,1	129,8	109,5	71,9	41,8	31,5	21,3	
IMT PNC 9300	270,8	236,8	206,8	161,4	135,1	91,3	50,5	38,5	26,5	
IMT PNC 9400	387,7	339,5	296,8	232,3	193,5	128,0	74,1	56,0	38,0	
IMT PNC 9500	459,6	402,6	352,3	276,2	230,0	151,5	88,0	66,5	45,0	
IMT PNC 9600	655,2	528,1	503,5	393,5	328,5	216,8	125,7	94,8	64,0	
IMT PNC 9700	950,0	831,6	727,6	569,0	474,6	312,9	181,0	137,0	93,0	
IMT PNC 9800	1.187,3	1.039,5	910,0	711,2	608,3	391,6	226,7	171,3	116,0	
IMT PNC 9900	1.424,8	1.247,4	1.091,5	853,5	730,1	470,2	272,5	206,2	140,0	
IMT PNC 9910	1.695,6	1.482,2	1.298,3	1.014,9	856,2	561,5	323,0	244,7	166,5	
IMT PNC 9920	1.900,0	1.663,2	1.455,2	1.138,0	949,2	625,8	362,0	274,0	186,0	
IMT PNC 9930	2.374,6	2.079,0	1.820,0	1.422,4	1.216,6	738,2	453,4	342,6	232,0	
IMT PNC 9940	2.849,6	2.494,8	2.183,0	1.707,0	1.460,2	940,4	545,0	412,4	280,0	

 N_{KAT} - Nitrogen Generator