

PSA Nitrogen generators

No need for truckloads of Cryogenic N₂ or high pressure bottles, when OXYMAT units can produce N₂ on-site in the quantity you require by the "Pressure Swing Adsorption" method.

OXYMAT Nitrogen systems are designed for 24 hour continuous trouble free operation and are fully automatic process controlled with double absorbers for continuous nitrogen production and delivered complete with compressor, air conditioner and storage tanks ready for installation. You only need to install the electric power.

NITROMAT series

The NITROMAT series are available in several standard models with capacity in the range from 2 to 400 Nm³/h. The generators are designed for 24 hour continuous trouble free operation. The NITROMAT series produce up to 99,995% pure Nitrogen (the rest is Argon, Ar) at 5 bar(g) outlet pressure. All models can be supplied with an oxygen monitor displaying the actual Nitrogen purity and relay for alarm. Factory set point is 99,5% but this can easily be changed.

OXYMAT Nitrogen receivers are approved as per EU-regulation PED 97/23/EF. The air receiver tanks are supplied with automatic water drain valve, pressure gauge and security valve. The water drain is controlled from the NITROMAT unit.



The Oxygen and Nitrogen Generator Company

OXYMAT A/S has manufactures oxygen generator systems since 1978 and nitrogen since 2001. More than 350 plants are supplied world wide.

All OXYMAT and NITROMAT units are made in accordance with EU regulations especially regarding pressure vessels (EN 286-1) and are CE-approved.

Manufacturer of Oxygen and Nitrogen Generator Systems & Spare Parts



Options

All NITROMAT units can be supplied with an advanced touch screen monitoring system. The touch screen is very easy to operate and gives you full overview of purity, process, pressure and automatically check of valves. Alarms from the system can optional be sent as a SMS message to your cellular phone. All NITROMAT units can be upgraded to medical/alimentary use supplying up to 99,995% pure nitrogen. The NITROMAT series can be supplied with nitrogen compressors delivering up to 200 bar(g) and manifold for bottle filling.

OXYMAT A/S supplies complete systems or parts hereof to client requirement.

More than 20 years of research and development combined with high knowledge and experience about oxygen and nitrogen applications has made it possible to manufacture generators of outstanding quality and in range of several standard models, which is unequalled by any other manufacturer.

Model	Flow Purity	Nm³/hour (99,0%)	Nm³/hour (99,5%)	Nm³/hour (99,9%)	Nm³/hour (99,99%)	Nm³/hour (99,995%)
N-040		3,00	2,40	1,50	0,80	0,35
Air Nm ³ /min		0,13	0,12	0,10	0,07	0,062
N-075		5,52	4,80	3,00	1,20	0,60
Air Nm ³ /min		0,24	0,24	0,20	0,11	0,10
N-150		12,00	9,00	6,00	3,00	1,50
Air Nm ³ /min		0,55	0,45	0,40	0,30	0,27
N-350		27,00	21,00	12,00	6,00	3,00
Air Nm ³ /min		1,17	1,10	0,79	0,60	0,55
N-600		44,3	36,0	22,1	11,1	5,50
Air Nm ³ /min		1,93	1,80	1,48	1,02	0,92
N-800		60,00	48,00	28,80	15,60	6,90
Air Nm ³ /min		2,68	2,40	1,92	1,43	1,15
N-1000		73,80	60,00	36,90	18,48	9,18
Air Nm ³ /min		3,20	3,00	2,46	1,69	1,54
N-1500		111,00	90,00	55,02	27,60	13,80
Air Nm ³ /min		4,80	4,50	3,70	2,54	2,31
N-1850		137,00	111,00	68,00	34,10	17,10
Air Nm ³ /min		5,92	5,55	4,55	3,13	2,85
N-2650		196,00	159,00	98,00	48,90	24,50
Air Nm ³ /min		8,50	7,95	6,52	4,48	4,08
N-3150		233,00	189,00	116,00	58,00	29,10
Air Nm ³ /min		10,10	9,45	7,75	5,33	4,85
N-4500		332,00	270,00	166,00	83,00	41,50
Air Nm ³ /min		14,4	13,50	11,10	7,60	6,90
N-6500		480,00	390,00	240,00	120,00	60,00
Air Nm ³ /min		20,80	19,50	16,00	11,0	10,00
N-10000		720,00	600,00	360,00	180,00	90,00
Air Nm ³ /min		31,20	30,00	24,00	16,50	15,00