PRODUCT CATALOGUE 2026

N2 Nitrogen Generators

On-site nitrogen from 1 Nm^3/h to over 2 400 Nm^3/h, up to 99.999% purity: modular, twin-tower, integrated PSA and membrane generators.



DISTRIBUTOR FOR EUROPE

InterElectronic

3-YEAR WARRANTY

www.inte-on.com

INTRODUCTION

Nitrogen on site, at the purity you need

INTEON nitrogen generators separate nitrogen from compressed air with carbon molecular sieve (PSA) or hollow fibre membranes. Nitrogen is inert: it protects solder joints, materials and products from oxidation. From a compact unit for one selective soldering machine to a twin-tower plant for a whole factory, the range covers every capacity.

Warranty

3 years

3-year warranty on INTEON nitrogen generators.

Up to 99.999%

Purity from 95% to 99.999%; 99.999% for selective soldering.

Your own nitrogen

No cylinders or liquid deliveries: nitrogen from compressed air, on demand.

Support in Europe

Sales, installation, training and service in Europe through InterElectronic.

APPLICATIONS

Where nitrogen is used

Electronics

Reflow and wave soldering, selective soldering (99.999%), packaging, sintering, annealing and storage of electronic products, semiconductors, lithium batteries, laser cutting.

Pharmaceuticals

Protective atmosphere, dry and oxygen-free environment and purging in production and packaging.

3D printing

Stable lamination of metal powders and temperature control of the build atmosphere.

Food

Packaging and preservation with sterilised, dust and water free nitrogen.

Chemicals and materials

Raw gas, pipeline purging, gas replacement and protective gas.

Metal processing

Protective gas for annealing and sintering, nitriding, furnace purging, powder metallurgy.

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TECHNOLOGY

How a PSA nitrogen generator works

Pressure swing adsorption (PSA) separates oxygen and nitrogen by physical means. Carbon molecular sieve adsorbs oxygen faster than nitrogen, and more under pressure than without it. Two adsorption towers work in turn, one adsorbing while the other regenerates, so high purity nitrogen comes out continuously.



1 Air compressor 2 Air tank 3 Filter set 4 Refrigerated dryer 5 Nitrogen generator 6 Nitrogen tank

1 Air compression

Ambient air is compressed by the air compressor and stored in the air tank.

2 Air drying

The compressed air is filtered, cooled and dried before it enters the generator.

3 Adsorption

The air passes through carbon molecular sieve, which adsorbs oxygen under pressure and lets nitrogen through.

4 Desorption and regeneration

The saturated sieve is depressurised to release the oxygen while the second tower takes over adsorption.

ABOUT NITROGEN

An inert gas from the air around us

Nitrogen makes up 78.08% of the atmosphere. It is colourless and odourless, with a density of 1.251 g/L, slightly lower than air. It is chemically inactive and hardly reacts with other substances at room temperature, which is why it is used as a protective atmosphere.

REFERENCE WORKING CONDITIONS

- ✓ Inlet compressed air pressure 0.7 MPa
- ✓ Operating temperature -5 °C to 50 °C
- ✓ Outlet nitrogen to ISO 8573-1:2010 class 1-2-1
- ✓ Measuring condition: 0 m altitude, 20 °C
- ✓ Inlet compressed air to ISO 8573-1:2010 class 1-4-1
- ✓ Power requirement 100 W, 110–220 V, 1-phase, 50–60 Hz

MODULAR NITROGEN GENERATORS

NPM and NPM-P series



FEATURES

- Adsorbers in aviation-grade magnesium-aluminium alloy: not a pressure vessel, no special equipment inspection needed
- Clean appearance and long service life, low risk of corrosion
- Compact structure with a small footprint
- Low exhaust noise thanks to noise-reducing treatment
- Intelligent control with a high degree of automation
- Modular: capacity grows with the number of modules, NPM with external and NPM-P with internal buffer tank

NITROGEN OUTPUT

Model	NITROGEN OUTPUT, NM³/H							Air inlet	N2 outlet
	99%	99.5%	99.9%	99.95%	99.99%	99.995%	99.999%		
NPM01	4.3	3.6	2.9	2.4	1.8	1.5	1.1	Ø8	Ø8
NPM01+	8.6	7.2	5.8	4.9	4.0	3.5	3.0	G1/2	G1/2
NPM02	8.1	6.8	5.4	4.5	3.5	2.8	2.0	G1/2	G1/2
NPM04	19.2	15.6	11.4	9.6	7.8	6.6	5.4	G1/2	G1/2
NPM06	28.8	23.4	17.1	14.4	11.7	9.9	8.1	G1/2	G1/2
NPM08	38.4	31.2	22.8	19.2	15.6	13.2	10.8	G1/2	G1/2
NPM10	48.0	39.0	28.5	24.0	19.5	16.5	13.5	G3/4	G1/2
NPM12	57.6	46.8	34.2	28.8	23.4	19.8	16.2	G3/4	G1/2
NPM14	67.2	54.6	39.9	33.6	27.3	23.1	18.9	G3/4	G1/2
NPM16	76.8	62.4	45.6	38.4	31.2	26.4	21.6	G1	G1/2
NPM18	86.4	70.2	51.3	43.2	35.1	29.7	24.3	G1	G1/2
NPM20	96.0	78.0	57.0	48.0	39.0	33.0	27.0	G1	G1/2
NPM20+	110.7	90.0	65.7	55.4	45.0	38.1	31.1	G1-1/4	G1/2
NPM28	134.4	109.2	79.8	67.2	54.6	46.2	37.8	G1-1/2	G3/4
NPM32	153.6	124.8	91.2	76.8	62.4	52.8	43.2	G1-1/2	G3/4
NPM36	172.8	140.4	102.6	86.4	70.2	59.4	48.6	G1-1/2	G3/4
NPM40	192.0	156.0	114.0	96.0	78.0	66.0	54.0	G1-1/2	G3/4

99.999% (highlighted): the purity for selective soldering. Output at the reference conditions on page 3.

MODULAR NITROGEN GENERATORS

Sizes and weights

Model	EQUIPMENT SIZE, MM				WEIGHT, KG		N2 tank, L	N2 BUFFER TANK	
	L NPM	L NPM-P	W	H	NPM	NPM-P		Size, mm	kg
NPM01	–	495	420	1020	–	115	–	–	–
NPM01+	–	500	650	1020	–	180	–	–	–
NPM02	470	630	615	1690	150	175	50	Ø320 × 770	57
NPM04	470	630	780	1690	220	260	50	Ø320 × 770	57
NPM06	470	630	940	1690	280	350	100	Ø320 × 1330	70
NPM08	470	630	1100	1690	350	435	100	Ø320 × 1330	70
NPM10	470	630	1245	1690	430	530	200	Ø450 × 1480	100
NPM12	470	630	1430	1690	490	575	200	Ø450 × 1480	100
NPM14	470	630	1590	1690	555	620	200	Ø450 × 1480	100
NPM16	470	630	1755	1690	620	790	200	Ø450 × 1480	100
NPM18	470	630	1920	1690	690	890	300	Ø550 × 1560	120
NPM20	470	630	2080	1690	755	970	300	Ø550 × 1560	120
NPM20+	470	630	2105	1840	835	1050	300	Ø550 × 1560	120
NPM28	660	990	1755	1690	1085	1355	600	Ø650 × 2080	140
NPM32	660	990	1925	1690	1220	1525	600	Ø650 × 2080	140
NPM36	660	990	2080	1690	1355	1770	600	Ø650 × 2080	140
NPM40	660	990	2240	1690	1490	1900	600	Ø650 × 2080	140

NPM with external buffer tank (length L NPM, weight NPM); **NPM-P** with internal buffer tank (length L NPM-P, weight NPM-P). NPM01 and NPM01+ are built as NPM-P only. Tank volume for ≥ 99.99% purity.

Reference conditions: Inlet compressed air pressure 0.7 MPa; Measuring condition: 0 m altitude, 20 °C; Operating temperature -5 °C to 50 °C; Inlet compressed air to ISO 8573-1:2010 class 1-4-1; Outlet nitrogen to ISO 8573-1:2010 class 1-2-1; Power requirement 100 W, 110–220 V, 1-phase, 50–60 Hz. Air and nitrogen connections for ≥ 99.99% purity; other configurations on request.

TWIN-TOWER NITROGEN GENERATORS

NP series



FEATURES

- Large nitrogen capacity from a single unit with high production efficiency
- Special carbon molecular sieve filling process for a longer service life
- Airflow distribution design that reduces the compressed air consumption
- Large diameter buffer tank: low internal flow fluctuation, stable nitrogen output
- Energy-saving control for different working conditions

NITROGEN OUTPUT

Model	NITROGEN OUTPUT, NM³/H					Air inlet	N2 outlet
	99%	99.5%	99.9%	99.99%	99.999%		
NP40	98.0	80.0	58.0	40.0	28.0	DN32	DN15
NP60	148.0	120.0	88.0	60.0	42.0	DN40	DN20
NP80	197.0	160.0	117.0	80.0	55.0	DN40	DN20
NP100	246.0	200.0	146.0	100.0	69.0	DN40	DN25
NP120	295.0	240.0	175.0	120.0	83.0	DN50	DN25
NP150	369.0	300.0	219.0	150.0	104.0	DN65	DN32
NP180	443.0	360.0	263.0	180.0	125.0	DN65	DN32
NP200	492.0	400.0	292.0	200.0	138.0	DN65	DN32
NP250	615.0	500.0	365.0	250.0	173.0	DN80	DN40
NP300	738.0	600.0	438.0	300.0	208.0	DN80	DN40
NP350	862.0	700.0	512.0	350.0	242.0	DN80	DN40
NP400	985.0	800.0	585.0	400.0	277.0	DN80	DN50
NP500	1 231.0	1 000.0	731.0	500.0	346.0	DN100	DN50
NP600	1 477.0	1 200.0	877.0	600.0	415.0	DN100	DN65
NP800	1 969.0	1 600.0	1 169.0	800.0	554.0	DN125	DN65
NP1000	2 462.0	2 000.0	1 462.0	1 000.0	692.0	DN150	DN80

TWIN-TOWER NITROGEN GENERATORS

Sizes and weights

Model	EQUIPMENT SIZE, MM			Weight, kg	BUFFER TANK		
	L	W	H		m^3	Size, mm	kg
NP40	1820	830	2000	1 140	0.3	Ø550 × 1550	110
NP60	2000	900	2350	1 430	0.6	Ø650 × 1950	164
NP80	2000	920	2520	1 620	0.6	Ø650 × 1950	164
NP100	2040	990	2480	1 930	1.0	Ø800 × 2130	225
NP120	2250	1050	2520	2 460	1.0	Ø800 × 2130	225
NP150	2500	1150	2710	3 010	1.5	Ø950 × 2250	262
NP180	2600	1150	3000	3 390	1.5	Ø950 × 2250	262
NP200	2600	1250	2870	3 810	1.5	Ø950 × 2250	262
NP250	2800	1600	3350	4 960	2.0	Ø1000 × 2780	335
NP300	2820	1830	3800	5 600	2.0	Ø1000 × 2780	335
NP350	3200	1950	3600	6 410	3.0	Ø1200 × 2900	500
NP400	3200	1950	3550	6 750	3.0	Ø1200 × 2900	500
NP500	3320	2000	3755	8 580	4.0	Ø1400 × 2900	580
NP600	3720	2000	4120	10 350	4.0	Ø1400 × 2900	580
NP800	4000	2250	4550	12 770	6.0	Ø1400 × 4150	800
NP1000	4200	2350	5130	15 080	8.0	Ø2000 × 2874	1180

Reference conditions: Inlet compressed air pressure 0.7 MPa; Measuring condition: 0 m altitude, 20 °C; Operating temperature -5 °C to 50 °C; Inlet compressed air to ISO 8573-1:2010 class 1-4-1; Outlet nitrogen to ISO 8573-1:2010 class 1-2-1; Power requirement 110–220 V, 1-phase, 50–60 Hz, 100 W. Air and nitrogen connections for ≥ 99.99% purity; other configurations on request.

INTEGRATED NITROGEN GENERATORS

Compressor, dryer and generator in one unit



NPI PSA integrated generators

For laboratories, single machines and small production lines.

- PSA pressure swing adsorption technology
- Highly integrated, low-noise operation
- Compact size, easy to move
- Purity and flow rate adjustable as required
- Intelligent multi-unit and integrated design

Output, L/min	NPI05	NPI35	NPI70	NPI120
97%	8	40	90	150
99%	5	35	70	120
99.5%	4	30	60	100
99.9%	3	25	50	80
99.99%	2	20	30	50
99.999%	1	15	20	30
Weight	35 kg	140 kg	270 kg	320 kg
Power	0.4 kW	1.5 kW	2.3 kW	3.8 kW
Size L × W × H, mm	380 × 500 × 450	600 × 860 × 760	850 × 1000 × 1200	1050 × 1000 × 1200
Dew point	< -20 °C	< -40 °C	< -40 °C	< -40 °C
N2 interface	G1/8	Ø8	Ø8	Ø8
Voltage	1-phase 220 V	1-phase 220 V	3-phase 380 V	3-phase 380 V

Pressure	6 bar
Noise	< 60 dB
Ambient temperature	5 °C to 40 °C
Method	PSA (pressure swing adsorption)
Air compressor	Built-in

Reference conditions: ambient temperature 20 °C, 0 m altitude; outlet nitrogen to ISO 8573-1:2010 class 1-2-1; sizes L × W × H.

INTEGRATED NITROGEN GENERATORS

Membrane technology, no adsorbent



NMI membrane integrated generators

Hollow fibre membrane, 95% to 99.9% purity.

- Hollow fibre membrane separation technology
- Highly integrated, no external gas source needed
- Compact size, easy to move
- Clean, modern design
- Low exhaust noise thanks to noise-reducing treatment

Output, L/min	NMI15	NMI30
95%	20	40
97%	15	30
99%	8	15
99.5%	6	12
99.9%	3	6
Weight	75 kg	100 kg
Power	0.9 kW	1.5 kW
Size L × W × H, mm	800 × 700 × 780	800 × 700 × 780

Dew point	< -40 °C
N2 interface	Ø8
Voltage	220 V
Pressure	6 bar
Noise	< 60 dB
Ambient temperature	5 °C to 40 °C
Method	Hollow fibre membrane separation
Air compressor	Built-in

Reference conditions: ambient temperature 20 °C, 0 m altitude; outlet nitrogen to ISO 8573-1:2010 class 1-2-1; sizes L × W × H.

ALSO AVAILABLE

OPM modular oxygen generators

The same modular platform as the NPM nitrogen generators, producing 90% to 93% oxygen from compressed air.

Model	OXYGEN OUTPUT, NM³/H		Air inlet	O2 outlet
	90%	93%		
OPM01	0.9	0.7	Ø8	Ø8
OPM02	1.7	1.4	G1/2	G1/2
OPM04	3.3	2.7	G1/2	G1/2
OPM06	5.0	4.1	G1/2	G1/2
OPM08	6.6	5.4	G1/2	G1/2
OPM10	8.3	6.8	G3/4	G1/2
OPM12	9.9	8.1	G3/4	G1/2
OPM14	11.6	9.5	G3/4	G1/2
OPM16	13.2	10.8	G1	G1/2
OPM18	14.9	12.2	G1	G1/2
OPM20	16.5	13.5	G1	G1/2
OPM20+	19.3	15.8	G1-1/4	G1/2
OPM28	23.1	18.9	G1-1/2	G3/4
OPM32	26.4	21.6	G1-1/2	G3/4
OPM36	29.7	24.3	G1-1/2	G3/4
OPM40	33.0	27.0	G1-1/2	G3/4

FEATURES

- ✓ Adsorbers in aviation-grade magnesium-aluminium alloy: not a pressure vessel, no special equipment inspection needed
- ✓ Clean appearance and long service life, low risk of corrosion
- ✓ Compact structure with a small footprint
- ✓ Low exhaust noise thanks to noise-reducing treatment
- ✓ Intelligent control with a high degree of automation

Cabinet sizes, weights and buffer tanks are the same as the NPM modular nitrogen generator of the same size (OPM01 = NPM01, OPM02 = NPM02 ...).

Reference conditions: inlet air 0.7 MPa, 0 m altitude, 20 °C, -5 °C to 50 °C; inlet air to ISO 8573-1:2010 class 1-4-1, outlet oxygen class 1-2-1; 110–220 V, 1-phase, 50–60 Hz, 100 W.

INTEON

www.inte-on.com

MANUFACTURER

INTEON Corporation Limited

RM A07, 1701-02 New Trend Centre
704 Prince Edward Road East
San Po Kong, KLN, Hong Kong
E-mail: **info@inte-on.com**

DISTRIBUTOR FOR EUROPE

InterElectronic Hungary Kft.

2461 Tárnok, Pacsirtamező 3 D/1
Károly Peics **+36 30 296 45 05**
David Peics **+36 30 217 1226**
E-mail: **info@interelectronic.com**

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