

MODULAR PSA NITROGEN GENERATORS

NIMOS NM1

Performance at inlet pressure: **7,5 bar (g)**

	LP					HP				
Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %	99,999 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	8,0	6,1	5,1	4,5	3,5	2,2	2,0	1,4	1,1	0,7
Feed Air m³/h FAD	17,8	15,5	14,3	13,6	12,1	10,5	9,0	8,7	8,3	7,9

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH)

Performance at inlet pressure: **9,5 bar (g)**

	LP					HP				
Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %	99,999 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	9,9	7,5	6,3	5,5	4,3	2,7	2,4	1,7	1,3	0,8
Feed Air m³/h FAD	22,0	19,2	17,7	16,8	15,0	13,0	11,1	10,7	10,2	9,7

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH)

Feed Air Requirements

Quality:	Class 1-4-1 ISO 8573.1 Solid < 0,1 µm Dew point < +3°C Oil < 0,01 mg/m ³
Pressure:	6 - 10 bar (g)
Temperature:	+5..... +45°C

⁽²⁾Dew point at atmospheric pressure.

⁽³⁾Necessary for guarantee performance of the nitrogen generator.

Nitrogen Specifications

Outlet pressure:	0-9 bar(g)
Dew point: ⁽²⁾	< 40°C
Nitrogen process tank: ⁽³⁾	10 lt

Power Requirements

Power Supply:	230 V / 50 - 60 Hz
Power Consumption:	max. 0,5 kW

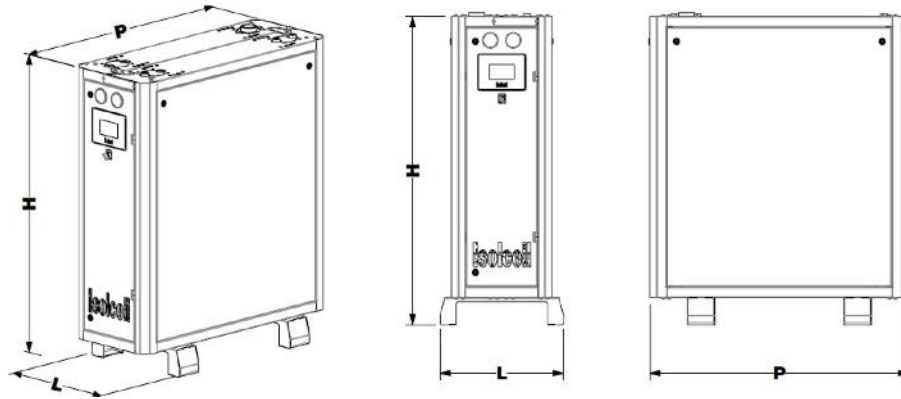


Dimensions & Weight

L:	540 mm
P:	861 mm
H:	1346 mm
Weight:	170 kg

Connections

Air inlet:	G½"
N ₂ outlet:	G½"
O ₂ enriched air outlet:	G2"



STANDARD EQUIPMENT AND OPTIONS

- = standard equipment
- = option

Control panel

5" Touch Screen display	●
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Purity monitoring and control

O ₂ Electrochemical Sensor 0-25 %	○
O ₂ Zirconium Sensor 0-25 %	○
O ₂ Zirconium Sensor 10-1000 ppm	○
Dew point sensor with indication on display	○
Flow meter with indication on display	○

Valves and accessories

Back pressure control valve kit	○
Compressed air pressure sensor	○
Nitrogen buffer pressure sensor	●
Process tank pressure sensor	○
Exhaust silencer	●
Super exhaust silencer extern mounted	○

Logging and data handling

Analog output 4-20mA (O ₂ level)	●
Modbus RTU	●
Modbus RS485/USB serial converter	○
Profibus connection convert	○
Canbus connection convert	○
Webserver	○
Digital remote control	●
Extern alarm digital input	●

Accessories

Process tank (Integrated)	●
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MODULAR PSA NITROGEN GENERATORS

NIMOS NM2

Performance at inlet pressure: **7,5 bar (g)**

	LP					HP				
Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %	99,999 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	15,9	12,2	10,3	8,9	7,0	4,4	4,0	2,8	2,2	1,5
Feed Air m³/h FAD	35,6	31,0	28,6	27,2	24,3	20,9	18,0	17,3	16,6	15,8

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH)

Performance at inlet pressure: **9,5 bar (g)**

	LP					HP				
Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %	99,999 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	20,0	15,2	12,7	10,8	8,4	5,5	5,0	3,5	2,8	1,6
Feed Air m³/h FAD	44,0	38,1	35,1	33,3	29,6	26,5	26,0	21,0	20,2	19,0

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH)

Feed Air Requirements

Quality:	Class 1-4-1 ISO 8573.1 Solid < 0,1 µm Dew point < +3°C Oil < 0,01 mg/m ³
Pressure:	6 - 10 bar (g)
Temperature:	+5..... +45°C

(2) Dew point at atmospheric pressure.

(3) Necessary for guarantee performance of the nitrogen generator.

Nitrogen Specifications

Outlet pressure:	0-9 bar(g)
Dew point:(2)	< 40°C
Nitrogen process tank:(3)	10 lt

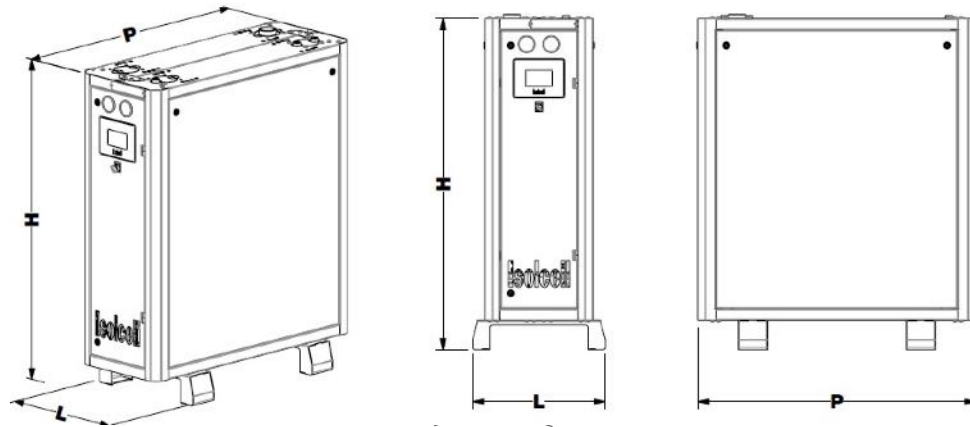
Power Requirements

Power Supply:	230 V / 50 - 60 Hz
Power Consumption:	max. 0,5 kW



Dimensions & Weight

L:	600 mm
P:	400 mm
H:	1300 mm
Weight:	150 kg



Connections

Air inlet:	G½"
N ₂ outlet:	G½"
O ₂ enriched air outlet:	G2"

STANDARD EQUIPMENT AND OPTIONS

- = standard equipment
- = option

Control panel

4 line display	●
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Purity monitoring and control

O ₂ Electrochemical Sensor 0-25 %	○
O ₂ Zirconium Sensor 0-25 %	○
O ₂ Zirconium Sensor 10-1000 ppm	○
Dew point sensor with indication on display	○
Flow meter with indication on display	○

Valves and accessories

Back pressure control valve kit	○
Compressed air pressure sensor	○
Nitrogen buffer pressure sensor	●
Process tank pressure sensor	○
Exhaust silencer	●
Super exhaust silencer extern mounted	○

Logging and data handling

Analog output 4-20mA (O ₂ level)	●
Modbus RTU	●
Modbus RS485/USB serial converter	○
Profibus connection convert	○
Canbus connection convert	○
Webserver	○
Digital remote control	●
Extern alarm digital input	●

Necessary accessory

Process tank (Integrated)	●
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MODULAR PSA NITROGEN GENERATORS

NIMOS NM3

Performance at inlet pressure: **7,5 bar (g)**

	LP					HP				
Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %	99,999 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	23,9	18,3	15,4	13,4	10,5	6,6	6,0	4,2	3,3	2,2
Feed Air m³/h FAD	53,3	46,5	42,9	40,7	36,4	31,4	27,1	26,0	24,9	23,7

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH) - Nitrogen outlet pressure 6bar(g) - Performance data ± 5%

Performance at inlet pressure: **9,5 bar (g)**

	LP					HP				
Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %	99,999 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	30,1	22,7	19,0	16,2	12,6	8,2	7,5	5,3	4,2	2,4
Feed Air m³/h FAD	66,0	57,2	57,2	49,9	44,4	39,8	39,0	31,5	30,3	28,5

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH) - Nitrogen outlet pressure 6bar(g) - Performance data ± 5%

Feed Air Requirements

Quality:	Class 1-4-1 ISO 8573.1 Solid < 0,1 µm Dew point < +3°C Oil < 0,01 mg/m ³
Pressure:	6 - 10 bar (g)
Temperature:	+5..... +45°C

⁽²⁾ Dew point at atmospheric pressure.

⁽³⁾ Necessary for guarantee performance of the nitrogen generator.

Nitrogen Specifications

Outlet pressure:	0-9 bar(g)
Dew point: ⁽²⁾	< 40°C
Nitrogen process tank: ⁽³⁾	25 lt

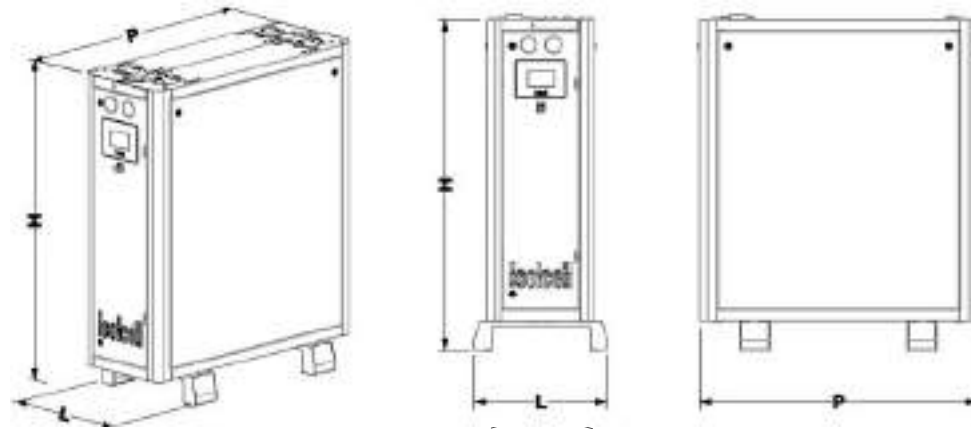
Power Requirements

Power Supply:	230 V / 50 - 60 Hz
Power Consumption:	max. 0,5 kW



Dimensions & Weight

L:	460 mm
P:	1133 mm
H:	1500 mm
Weight:	260 kg



Connections

Air inlet:	G1/2"
N ₂ outlet:	G1/2"
O ₂ enriched air outlet:	G2"

STANDARD EQUIPMENT AND OPTIONS

- = standard equipment
- = option

Control panel

4 line display	●
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Purity monitoring and control

O ₂ Electrochemical Sensor 0-25 %	○
O ₂ Zirconium Sensor 0-25 %	○
O ₂ Zirconium Sensor 10-1000 ppm	○
Dew point sensor with indication on display	○
Flow meter with indication on display	○

Valves and accessories

Back pressure control valve kit	○
Compressed air pressure sensor	○
Nitrogen buffer pressure sensor	●
Process tank pressure sensor	○
Exhaust silencer	●
Super exhaust silencer extern mounted	○

Logging and data handling

Analog output 4-20mA (O ₂ level)	●
Modbus RTU	●
Modbus RS485/USB serial converter	○
Profibus connection convert	○
Canbus connection convert	○
Webserver	○
Digital remote control	○
Extern alarm digital input	●

Necessary accessory

Process tank (Integrated)	●
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MODULAR PSA NITROGEN GENERATORS

NIMOS NM4

Performance at inlet pressure: **7,5 bar (g)**

	LP					HP				
	Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	29,4	23,2	20,0	17,5	14,7	10,4	8,0	5,6	4,4	3,7
Feed Air m³/h FAD	59,6	52,9	49,6	46,9	43,9	38,2	36,1	34,6	33,3	32,9

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH)

Performance at inlet pressure: **9,5 bar (g)**

	LP					HP				
	Nitrogen purity rate	95 %	97 %	98 %	99 %	99,5 %	99,9 %	99,95 %	99,99 %	99,995 %
Residual oxygen	5 %	3 %	2 %	1 %	0,5 %	0,1 %	500 PPM	100 PPM	50 PPM	10 PPM
Flow m³/h ⁽¹⁾ FND	35,7	27,8	23,9	20,5	17,4	13,1	10,1	7,0	5,5	3,9
Feed Air m³/h FAD	73,6	64,0	59,2	55,0	51,5	55,1	52,0	42,0	40,4	40,0

(1) Flow rates at standard atmospheric conditions (20°C/1000 mbar/0% RH)

Feed Air Requirements

Quality:	Class 1-4-1 ISO 8573.1 Solid < 0,1 µm Dew point < +3°C Oil < 0,01 mg/m ³
Pressure:	6 - 10 bar (g)
Temperature:	0..... +45°C

⁽²⁾ Dew point at atmospheric pressure.

⁽³⁾ Necessary for guarantee performance of the nitrogen generator.

Nitrogen Specifications

Outlet pressure:	0-9 bar(g)
Dew point: ⁽²⁾	< 40°C
Nitrogen process tank: ⁽³⁾	25 lt

Power Requirements

Power Supply:	230 V / 50 - 60 Hz
Power Consumption:	max. 0,5 kW

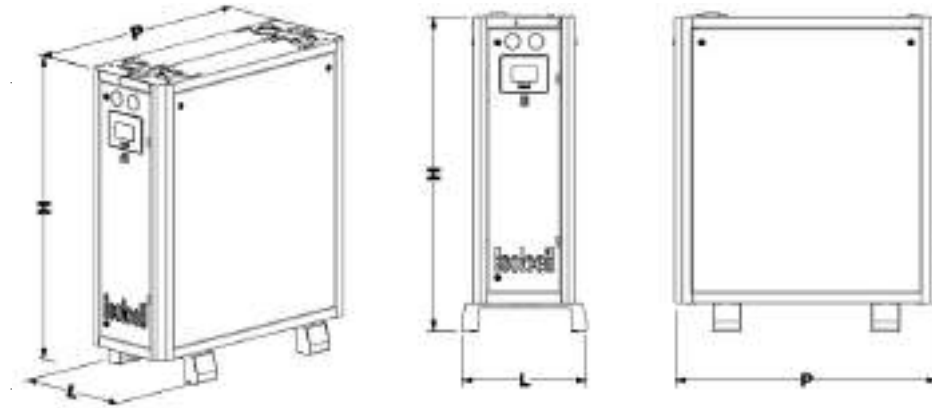


Dimensions & Weight

L:	540 mm
P:	1133 mm
H:	1346 mm
Weight:	300 kg

Connections

Air inlet:	G½"
N ₂ outlet:	G½"
O ₂ enriched air outlet:	G2"



STANDARD EQUIPMENT AND OPTIONS

- = standard equipment
- = option

Control panel

4 line display	●
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Purity monitoring and control

O ₂ Electrochemical Sensor 0-25 %	○
O ₂ Zirconium Sensor 0-25 %	○
O ₂ Zirconium Sensor 10-1000 ppm	○
Dew point sensor with indication on display	○
Flow meter with indication on display	○

Valves and accessories

Back pressure control valve kit	○
Compressed air pressure sensor	○
Nitrogen buffer pressure sensor	●
Process tank pressure sensor	○
Exhaust silencer	●
Super exhaust silencer extern mounted	○

Logging and data handling

Analog output 4-20mA (O ₂ level)	●
Modbus RTU	●
Modbus RS485/USB serial converter	○
Profibus connection convert	○
Canbus connection convert	○
Webserver	○
Digital remote control	●
Extern alarm digital input	●

Necessary accessory

Process tank (Integrated)	●
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