

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 |

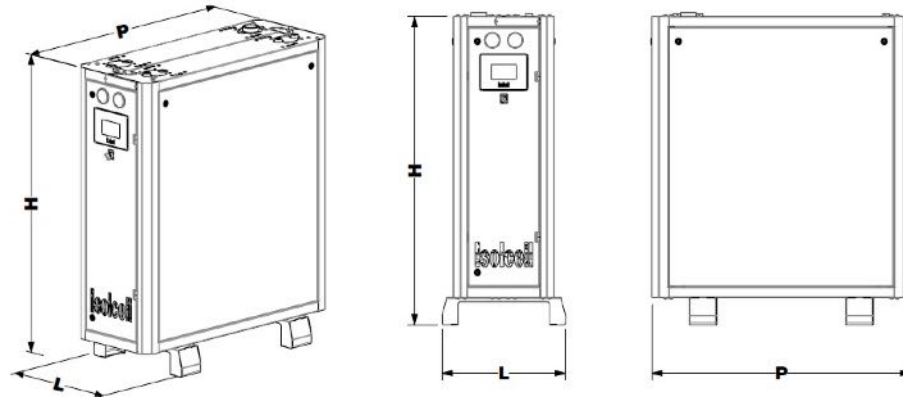
Power Requirements

| | |
|--------------------|--------------------|
| 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: | G1/2" |
| N ₂ outlet: | G1/2" |
| O ₂ enriched air outlet: | G2" |

STANDARD EQUIPMENT AND OPTIONS

- = standard equipment
- = option

Control panel

| | |
|-------------------------|---|
| 5" Touch Screen display | ● |
|-------------------------|---|

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) | ● |
|---------------------------|---|