

NITROGEN GENERATOR DOMINUS NL

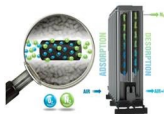


The new smart frontier for nitrogen supply
and cost-saving services

SUITABLE FOR : FOOD PACKAGING AND
INERTISATION IN CHEMICAL,
THERMAL AND BIOLOGICAL PROCESSES

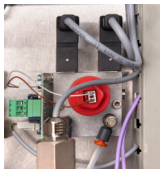
MOLECULAR SIEVES (CMS)

- Use of high quality CMS resulting from 30 years of research and testing in collaboration with specialists in the field.
- Automated filling system to ensure higher density and better generator reliability than conventional systems.



EFFICIENT PROCESS

- Minimised air and energy consumption thanks to the ECO mode included: automatic adaptation of the process time and modulation of the phases in proportion to the nitrogen withdrawn.
- Automatic stand-by mode if the nitrogen flow generated is greater than the flow drawn in.



RELIABILITY AND SAFETY

- Self-adjustment of the process to maintain the desired degree of purity.
- Continuous availability (24 hours a day, 7 days a week).
- No need for supervision and/or user activity thanks to pre-set operating programs
- Nitrogen shut-off valve: flow management according to purity and pressure levels compatible with customer requirements. Symbiotic use with other supply sources. .



CONTROL AND MONITORING

- Long-life, high sensitivity oxygen analyzer.
- Touch screen display.
- Maximum flexibility of communication between the generator and the external environment: MODBUS, MQTT, http protocols.
- Remote control and management of the generator from the Claind4You portal from any device connected to the web
- Display of operation parameters and warnings.
- Management of generator settings.
- Historical data and analysis of process variables.



OPTIONALS



FLOW METER

- Digital flow meter with signal connected to the generator.

COMPRESSED AIR MONITOR

- Continuous air quality monitoring to protect the generator.
- Temperature and dew point sensors.
- Automatic non-compliance mode in case of compressed air contamination.



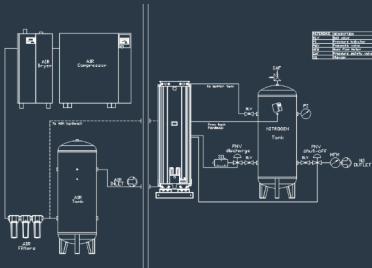
TECHNICAL SHEET

MODEL	Outgoing nitrogen flow* [Nm³/h]						
	99,999%	99,99%	99,9%	99,5%	99%	98%	97%
DOMINUS NL 1	12	17	26	35	40	50	58
DOMINUS NL 2	23	35	52	70	80	101	116
DOMINUS NL 3	35	52	78	105	119	151	173
DOMINUS NL 4	47	69	104	140	159	202	231
DOMINUS NL 5	58	86	131	176	199	252	289
DOMINUS NL 6	70	104	157	211	239	303	347
AIR/N2	5,10	4,20	3,20	2,65	2,45	2,20	2,05

* The flow capacity refers to inlet air nominal conditions: pressure of 8,5 bar , CMS temperature of 20 °C.

TECHNOLOGIES ADOPTED	PSA CLAUD		
INLET AIR SPECIFICATIONS	- Air pressure: min 6,5 / max 13 bar - Quality: dry, clean, exhalation free. The inlet air must meet the specifications ISO 8573/ISO 8573-1 Classe 1.4.1		
NITROGEN OUTLET PRESSURE	Given the pressure P of the inlet air, the pressure of the nitrogen generated is lower than 1,5 bar		
MOISTURE CONTENT AT OUTLET	-50°C Dew Point ATP		
ELECTRICAL SUPPLY	230 Vac ± 10% 50 Hz 115 Vac ± 10% 60 Hz		
POWER RATING	100 W		
INDEX OF PROTECTION	IP 20		
MAX NOISE	≤ 96 dBC (measured at 1 meter, SPD not required)		
OPERATING TEMPERATURE	5 + 40°C		
PNEUMATICAL CONNECTIONS	G 1 ½" F - Inlet air and N2 to Tank		
DIMENSIONS	Height	239 cm	
	Width	77 cm	
	Depth	NL 1: 65 cm NL 4: 152 cm	NL 2: 94 cm NL 5: 181 cm
			NL 3: 122 cm NL 6: 210 cm
WEIGHT		NL 1: 800 kg NL 4: 1520 kg	NL 2: 1040 kg NL 5: 1760 kg
			NL 3: 1280 kg NL 6: 2000 kg

P&I AND TYPICAL LAYOUTS





1979

THE YEAR OUR
COMPANY WAS
FOUNDED



3.000

OUR CUSTOMERS
ACROSS THE
WORLD



24.000

OUR INSTALLATIONS
WORLDWIDE



32

COUNTRIES
SUPPORTED
WORLDWIDE

SERVICES

-  WARRANTY EXTENSION
-  DYNAMIC MAINTENANCE CONTRACTS
-  DYNAMIC FULL-RISK CONTRACTS
-  IQ/OQ CERTIFICATIONS
-  CLAIIND4YOU

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