

N₂ FLO



“The modular and long life solution for all process plants”

Nitrogen generator



MODELS

N2 Flo 1 N2 Flo 2
N2 Flo 3 N2 Flo 4



TECHNICAL ADVANTAGES

- **Excellent efficiency:** the air consumption is minimised thanks to the FAST PURITY® system. The enhanced efficiency allows to reach a high level of nitrogen purity
- **Oxygen analyser and Pressure regulator:** are included as standard in all the nitrogen generators.
- **No buffer:** the N2 FLO, PICO & MAXI generators only need one vessel, used both as a buffer and as a consumption nitrogen reservoir
- **Easy and fast installation:** thanks to the electronic control with pre-set programs

FEATURES

- **Safety:** the generator can work unattended and independently 24 hours a day, 365 days a year
- **Automatic stand-by:** if the production flow exceeds the consumption, the generator enters a stand-by mode to reduce energy consumption
- **Oxygen analyser:** included in every N2 FLO, PICO & MAXI generator, to keep the nitrogen purity under control in real time
- **Custom nitrogen purity:** the nitrogen purity can be set according to customer and application requirements
- **Digital control board:** guarantees more flexibility in communication between the generator and the external environment. In particular, it allows data sharing through protocols conform to industrial specifications (MODBUS, MQTT, HTTP), allowing the interconnection of the generator to information technology systems such as PLC or SCADA

APPLICATIONS

The most common fields of application for these nitrogen generators include:

- Food packaging and bottling of wine, food oils, juices and water
- Chemical and thermal processes
- Laser cutting and welding
- Lead free welding for electronics



TECHNICAL SPECIFICATIONS

MODELS	Outgoing nitrogen flow* [Nm ³ /h]						
Purity	99,999%	99,99%	99,9%	99,5%	99%	98%	97%
N2 FLO 1	0,2	0,4	0,9	1,5	2	2,4	2,8
N2 FLO 2	0,5	0,8	1,8	2,9	3,6	4,6	5,3
N2 FLO 3	0,7	1,2	2,6	4,3	5,3	6,7	7,8
N2 FLO 4	1	1,7	3,7	5,8	7,2	9,1	10,6
Air/N2 Ratio	6,45	4,80	3,70	2,80	2,65	2,50	2,40

* The flow capacity refers to inlet air nominal conditions: pressure of 8,5 bar, CMS temperature of 20 °C. If the inlet air pressure is different, apply the correction factors reported below.

TECHNOLOGIES EMPLOY	PSA CLAIND
INLET AIR SPECIFICATIONS	<ul style="list-style-type: none"> • Air pressure : min 6,5 / max 13 bar • Quality: dry, clean, exhalation free. The inlet air must meet the specifications ISO 8573-1, class quality 1.4.1
NITROGEN OUTLET PRESSURE	Given the pressure P of the inlet air, the pressure of the nitrogen generated is $1 \div 2.5$ bar lower than P, depending on the flow rate of nitrogen supplied
MOISTURE CONTENT AT OUTLET	-50°C Dew Point ATP
ELETTRICAL SUPPLY	230 Vac \pm 10% 50 Hz 115 Vac \pm 10% 60 Hz
POWER RATING	50 W
INDEX OF PROTECTION	IP 20
AVERAGE NOISE	\leq 60 dB (measured at 1 meter from the generator)
OPERATING TEMPERATURE	5 \div 40°C
DIMENSIONS	Height: 118 cm Width: 40 cm Depth: 80 cm
WEIGHT	FLO 1: 92 kg FLO 2: 113 kg FLO 3: 134 kg FLO 4: 155 kg

CERTIFICATIONS





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