

# FLOXAL™ N<sub>2</sub>

## Nitrogen on-site production



### FLOXAL™ Solutions

**FLOXAL™ Solutions** cover the supply of gas generated at your site - using plants invested, operated, and maintained by Air Liquide - meeting your demand specifications of purity, pressure and flow rate, with full back-up and guaranteed performance.

Three molecules are made available under the **FLOXAL™** offer: nitrogen, oxygen and hydrogen. For each molecule, various generation technologies are used to ensure satisfaction of your gas needs at the required specifications at a competitive price.

### FLOXAL™ N<sub>2</sub>

Because you need nitrogen supply adapted to your unique process requirements we propose a full range of state of the art plants built to a standard design thus ensuring safety, reliability, and cost efficiency.

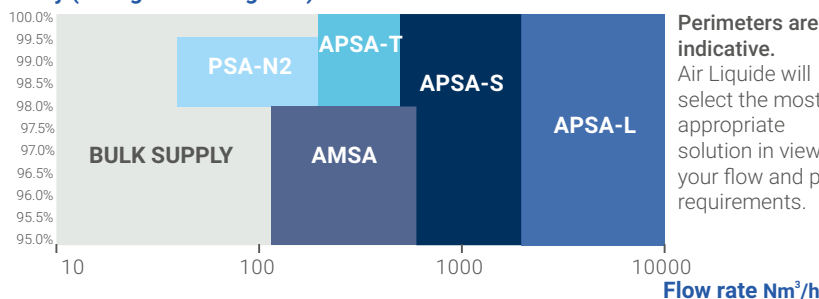
We guarantee continuous supply of gas, worry-free, so that you can focus on your business. Full gas availability is ensured through tele-monitored performance tracking supported by a network of alarm response centres and qualified service technicians as well as auxiliary bulk back-up storage on your premises.

### Markets & Applications

Metals | Glass | Electronics | Chemical and Refineries | Food | Pharmaceuticals  
Heat treatment | Metal refining | Inerting | Purging | Blanketing | Packaging

# On-site nitrogen portfolio

## Purity (Nitrogen + inert gases)



## On-site nitrogen product line

Product	APSA-T	APSA-S	APSA-L	AMSA	PSA-N2
Technology	LIN - assisted cryogenic distillation	LIN - assisted cryogenic distillation	Turbo - cooled cryogenic distillation	Membrane	Adsorption
Residual oxygen	1 – 3 ppm	1 – 3 ppm	< 1 ppm	2% – 5%	0.5 – 2%
Generator flow range (Nm <sup>3</sup> /h)	200 – 650	650 – 2100	1100 – 5500	120 – 600	40 – 200
Pressure (barg)	6 – 8	4 – 8.5	5 – 9	10	7
Key feature	Extensive turn-down	Low energy	Self-sufficient auto back-up	Modular	Adapted purity
Main application	High purity atmospheres	High purity atmospheres	High purity atmospheres	Purging	Inerting
Primary markets	Material processing	Glassmaking, metal coating	Electronics, remote locations	Chemical storage	Pharma, food packaging

LIN = Liquid Nitrogen - GAN = Gaseous Nitrogen

## APSA product line delivers the FLOXAL™ promise: peace-of-mind at best-in-class total cost of ownership.

### APSA-T

Power efficient cryogenic purity gas N<sub>2</sub> generator.

### BENEFITS

- Wide product range to meet various customer needs
- Flexible modular system design
- Energy efficient operation
- Guaranteed plant up-time
- Automated operation and uninterrupted gas supply

### APSA-S

Multi-cycle cryogenic purity gas N<sub>2</sub> generator. Including all benefits in APSA-T.

### ADDITIONAL BENEFITS

- Wide operating range adapted to evolve with customer demands
- Flexible optimized balance of energy efficiency and investment
- Higher productivity
- Extended pressure range
- Increased plant up-time
- Improved transportability

### Contact Us

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