

# LaserGas Generator



Make laser cutting more effective with ground breaking innovation and future proof PSA Nitrogen gas technology. We proudly introduce our LaserGas product line as a result of our extensive experience in the laser cutting industry.

The complete solution is optimized in terms for economy and performance. The system includes a compressed air supply, Oxywise PSA Nitrogen generator and a nitrogen booster, with connections to high or medium pressure storage, all specifically calibrated for laser cutting.

Nitrogen produced by our generators meets and exceeds cutting gas quality requirements, as listed below:

- $O_2 \leq 100$  ppm
- $H_2O \leq 5$  ppm
- $C_nH_m \leq 1$  ppm
- Particles  $\leq 0.3 \mu m, \leq 100$  ppm)

## Standard Features

- ✓ SIEMENS Control system with colour touch screen for outdoor usage
- ✓ Constant purity monitoring
- ✓ High purity control - off spec purge
- ✓ Molecular sieve protection from moisture
- ✓ Audio/visual alarm
- ✓ Modbus TCP, Ethernet connection

## Optional add-ons

- ✓ Remote monitoring over LTE/5G mobile networks
- ✓ SMS alarm & control
- ✓ Broader operating temperature range
- ✓ Cylinder bundles
- ✓ Oil contamination indicator
- ✓ Nitrogen consumption monitoring with data-log
- ✓ and others

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Model	Nitrogen capacity		Daily capacity	Power consumption	Specific power	Storage pressure
<b>Purity</b> 99.995%	kg/h	m <sup>3</sup> /h	kg/24h	kW	kWh/kg	bar
<b>LaserGas (1)</b> <b>N15-300</b>	19.7	17.0	473	15.3	0.78	300
<b>LaserGas</b> <b>N27-300</b>	34.8	30.0	835	25.7	0.74	300
<b>LaserGas (2)</b> <b>N50-300</b>	52.2	45.0	1253	37.7	0.72	300

(1) Purity 99.995% (class 4.5)  
Adjustable to 99.999%, capacity 13 m<sup>3</sup>/h

(2) Purity 99.995% (class 4.5)  
Adjustable to 99.999%, capacity 40 m<sup>3</sup>/h

Model	Nitrogen capacity		Daily capacity	Power consumption	Specific power	Storage pressure
<b>Purity</b> 99.995%	kg/h	m <sup>3</sup> /h	kg/24h	kW	kWh/kg	bar
<b>LaserGas</b> <b>N20-30</b>	24.4	21.0	585	17.1	0.70	30
<b>LaserGas</b> <b>N35-30</b>	46.4	40.0	1114	28.4	0.61	30
<b>LaserGas</b> <b>N80-30</b>	104.4	90.0	2506	62.1	0.59	30

Model	Nitrogen capacity		Daily capacity	Nitrogen purity	Specific power	Outlet / Storage pressure
containerized unit	kg/h	m <sup>3</sup> /h	kg/24h	% / ppm	kWh/kg	bar
<b>HANA</b> <b>N15 / 4.5</b>	19.7	17.0	473	99.995 / 4.5	0.8	3-30 / 300
<b>HANA</b> <b>N15 / 5.0</b>	15.1	13.0	362	99.999 / 5.0	1.0	3-30 / 300

\* Other size options available on request.

## Key benefits

- ✓ Guaranteed low cost Nitrogen
- ✓ Optimized for Laser Cutting
- ✓ Quick return on Investment
- ✓ Oxide free Cutting
- ✓ Increase In Productivity
- ✓ Minimized footprint
- ✓ Plug-and-play (model HANA)
- ✓ Weatherproof design (model HANA)

## Notes

Performance data is based on 7 barG inlet pressure and 20°C to 30°C ambient temperature.

Flow stated in cubic meter (m<sup>3</sup>) is with reference conditions, Temperature: 20°C, Pressure: 1.013 barA.

Conversion factor for m<sup>3</sup> with reference conditions, Temperature: 0°C, Pressure: 1.013 barA is 0.8 m<sup>3</sup>/kg.

Designs and specifications are subject to change without notice or obligation.

Nitrogen dew point  
-70°Ctd (+/- 5°C)

