



Atlas Copco

Laser cutting nitrogen generation system

LC N2 13-50

Level up your experience at
atlascopco.com

The nitrogen generator made for laser cutting

The LC N2 is the powerful, all-in-one high-pressure nitrogen generation system built for laser cutting. Designed to fit even the most cramped shop floors, it delivers a continuous supply of nitrogen with the exact pressure, purity and quality your laser requires. With its plug-and-play simplicity, integrated components, and remote monitoring, the LC N2 puts you in full control of your nitrogen supply while giving you cost savings and premium production quality.



Easy installation and operation

- Quick, plug-and-play installation.
- Works with existing air supply or a dedicated compressor.
- Easy, remote operation with touch screen controller.
- High-volume, high-pressure N₂ storage included as standard.
- Modular build allows for future expansion.



Reliable, cost-efficient N₂

- No more N₂ delivery dependence.
- 24/7 N₂ availability.
- Lowest cost per unit of gas.
- Quality and purity protection built in.



Made for laser cutting

- Super compact footprint.
- All-in-one N₂ generation system.
- High-quality, high-pressure N₂ with the right purity for your laser(s).
- Faster cutting with clean, oxide-free edges.
- 300-bar booster included.

Compact, complete and clean

Compact:

The LC N2 has the smallest footprint on the market. Plus, you free up space by eliminating those bulky delivered cylinder racks.

Complete:

Everything you need to produce nitrogen is included:

- Atlas Copco's premium NGP+ nitrogen generator
- 300-bar high-pressure booster
- High-efficiency low- and high-pressure filtration
- Pressure regulator (to adjust from 300 bar to the pressure required by your laser)
- Advanced controller with easy-to-use remote performance monitoring, start/stop control and service status
- High-volume, high-pressure nitrogen storage

Just connect the power and your compressed supply (or a dedicated compressor) and you're good to go. The LC N2's modular build allows for capacity expansion if and when your production grows.

Clean:

Working with nitrogen produced by the LC N2 ensures faster, cleaner cutting with oxide-free edges.



Stop purchasing your nitrogen!

Your run a lean, fast, and efficient operation. Producing your own N₂ puts you in charge:

- Lower cost per unit of gas.
- Full control of your N₂ supply.
- N₂ with the exact, guaranteed purity and quality you need.
- No more managing and handling of delivered gas.
- Eliminate delivery transport emissions.

Technical specifications

Model	N ₂ capacity												Installed power LC N2	NGP* size (incl)	Booster size (incl)	Outlet pressure Barg	Outlet pressure psig	Storage volume	Compressor power (excl) @ 25ppm
	99.999%				99.9975%				99.950%										kW
	Nm³/ h	Nm³/ day	cfm	cfm/ day	Nm³/ h	Nm³/ day	cfm	cfm/ day	Nm³/ h	Nm³/ day	cfm	cfm/ day	Approx absorbed power kW						
LC N2 13	10.7	257	6.3	9069	13.3	319	7.8	11273	20.9	502	12.3	17715	6	25	LTB 7-300	300 Barg	4350	18x50L (270 Nm³)	7.1
LC N2 20	16.6	398	9.8	14070	20.5	492	12.1	17375	28.5	684	16.8	24156	6	35	LTB 7-300	300 Barg	4350	18x50L (270 Nm³)	11.4
LC N2 25	24.6	590	14.5	20851	25.7	617	15.1	21783	38.5	924	22.7	32632	15	50	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	13.3
LC N2 35	29.1	698	17.1	24665	35.5	852	20.9	30089	45.3	1087	26.7	38396	15	70	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	17.3
LC N2 40	35.9	862	21.1	30428	40.8	979	24.0	34581	50	1200	29.4	42379	15	90	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	19.9
LC N2 50	44.8	1075	26.4	37972	50	1200	29.4	42379	50	1200	29.4	42379	15	105	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	25.1

Performance reference conditions:

Ambient/inlet air temperature: 20°C/68°F

Flow unit reference conditions: Nm³/h: 20°C - 1Bar(a) - 0% RH

General notes:

Nitrogen purity expressed as 100% minus oxygen content

- For different operating conditions & capacities, please consult your Atlas Copco representative
- Standard outlet nitrogen pressure setting is 290 bar(g)

Options:

- High-pressure flow monitoring
- High-pressure storage on mezzanine
- Additional high-pressure storage
- Onboard gas mixer
- Oxygen room analyzer

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Read all safety instructions in the manual before usage.

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