



Atlas Copco

Nitrogen solutions for laser cutting

LC N2 nitrogen generation system

LC MIX gas mixer

LC GUARD gas filtration panel

Level up your experience at
atlas-copco.com





The right nitrogen for the cleanest cut

Laser cutting is demanding. Every edge must be clean, every second counts, and your nitrogen supply has to be 100% reliable. At Atlas Copco, we don't just know industrial gases. We understand laser cutting. That's why we have developed a suite of products dedicated to laser cutting and your five key requirements:

1. Reliability – Always on, always stable

Your nitrogen supply must keep up with your operation. Running out is a costly problem. Atlas Copco nitrogen solutions are ready when you are, 24/7 if needed.

2. Quality – Clean edges, no compromise

Your laser system demands gas with an exact purity, quality and pressure. Anything less can affect cutting performance and product quality or damage your laser head. Our systems help keep your equipment safe, your operation efficient, and your cutting performance consistent.

3. Sustainability – A smaller carbon footprint

Switching to on-site nitrogen generation means fewer deliveries and zero transport emissions.

4. Efficiency – Lower costs, leaner logistics

Nitrogen is one of the biggest operating costs in laser cutting. Our on-site solutions give you a lower cost of gas, eliminating delivery expenses, reducing energy usage, and removing the hassle of gas handling and storage.

5. Scalability – Ready to grow with you

From single-laser setups to full-scale automated production lines, Atlas Copco solutions are modular and future-proof. As your capacity increases, our nitrogen systems can scale right along with it.



The highest N₂ purity

Do your operations require nitrogen with a very high purity? Then two-stage nitrogen generation with our NPH Nitrogen Purifier through Hydrogen offers a cost-efficient solution.

Dedicated solutions for laser cutting

Atlas Copco's laser cutting nitrogen solutions are designed and built to help you cut better, faster, cleaner and safer.

LC N2 High-pressure nitrogen generation system

The LC N2 is the compact, all-in-one nitrogen generation system made specifically for laser cutting. It produces nitrogen with the exact purity, quality and pressure your laser requires and gives you the lowest cost per unit of gas.

PRODUCE

✓ compact

✓ modular

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%								ISO 8573-1 1:4:1 inlet quality
	Nm³/h	cfm	Nm³/h	cfm	Nm³/h	cfm	KW						Approx absorbed power KW
LC N2 13	11	6.5	13.1	7.7	22.8	13.4	6	35	LTB 7-300	300 Barg	4350	18x50L (270 Nm³)	8
LC N2 20	18	10.6	21.5	12.7	28.5	16.8	6	60	LTB 7-300	300 Barg	4350	18x50L (270 Nm³)	14
LC N2 25	25	14.7	26.3	15.5	40	23.5	15	70	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	16
LC N2 35	29.7	17.5	35.5	20.9	50	29.4	15	90	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	19
LC N2 40	33.7	19.8	40	23.5	50	29.4	15	105	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	23
LC N2 50	42.1	24.8	50	29.4	50	29.4	15	130	LTB 20-300	300 Barg	4350	18x50L (270 Nm³)	28

OPTIMIZE

✓ 5x faster than O₂

✓ less burr than N₂

LC MIX Precision gas mixer

The LC MIX blends nitrogen and oxygen for optimized cutting of mild steel and aluminum. It delivers faster cuts with paint-ready edges and less burr.

Measurement	Min outlet capacity	Max outlet capacity	Max inlet pressure N ₂	Max inlet pressure O ₂	Max outlet pressure mix	Purity range (N ₂ purity)	Power supply (Automatic version)	Pressure drop	Inlet / outlet connections	Dimensions (L x W x H)	Mass
Metric	20 Nm ³ /h	120 Nm ³ /h	34 Barg	33 Barg	31 Barg	79-99.5%	230v 50 Hz	2-4 Barg	½" BSP Cone male	0.6x0.6x0.8m	80 kg
Imperial	12 cfm	71 cfm	493 psig	478.5 psig	449.5 psig	79-99.5%	110v 60 Hz	29-58 psig	½" BSP Cone male	23.6x23.6x31.5"	176 lbs

LC GUARD Filtration panel

Your laser head is valuable and sensitive. Any assist gas contamination can damage it and replacement is very costly. The LC GUARD filtration panel removes oil and particulates before they can reach the optics to extend laser head life and protect your cutting quality.

Measurement	N ₂ filtration capacity (@ 30 barg)	O ₂ filtration capacity (@30 barg)	Air/Mixed gas (option) capacity	Max pressure	Inlet/outlet connections	Dimensions (L x W x H)	Mass
Metric	315 Nm ³ /h	112 Nm ³ /h	315 Nm ³ /h	50 Barg	½" BSPP female	0.6x0.6x1.035m	51 kg
Imperial	185 Scfm	66 Scfm	185 Scfm	725 psig	½" BSPP female	23.6x23.6x40.7"	112 lbs

PROTECT

✓ O₂, N₂, mixed gas filtration



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