

DX/DN: Oil-free reciprocating piston compressors, up to 45 bar (652 psig) 30-315 kW / 40-422 hp.


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Atlas Copco's DX/DN oil-free reciprocating booster is the alliance of an extremely robust design with the best of technology in terms of packaging and equipment. DX/DN is your best partner in air and nitrogen compression from 7 to 45 bars. Available as a mono-stage or two-stage machine, it perfectly suits a wide variety of requirements in terms of flow and pressures. You will appreciate its canopy for its silencing properties and you will easily adopt the concrete frame that makes installation so easy. DX/DN compressors can be fitted downstream from an Atlas Copco Z compressor to create a complete package running from 1 to 40/45 bar.

Customer benefits

Certified 100% oil-free – DX/DN boosters provide you with 100% pure, clean air that complies with ISO 8573-1 CLASS 0 (2010) certification. CLASS 0 means zero risk of contamination; zero risk of damaged or unsafe products; zero risk of losses from operational downtime; and zero risk of damaging your company's hard-won professional reputation.

Nitrogen-ready – We adapt the piston rings and packing rings to nitrogen composition, dew point and purity. We supply DX/DN with or without a canopy (gas detection). Inlet dewpoints from -10°C/+14°F to "bone dry" gas are handled.

Energy savings – DX/DN boosters are also available in Variable Speed Drive versions, allowing for 35% energy savings due to:

Unload losses are reduced to a minimum

Load/no load transition losses are eliminated

Precise pressure control allows a tighter pressure band and a lower average working pressure, resulting in reduced energy consumption.

Easy installation – Fitted on a concrete base-plate, the DX/DN booster comes as an all-in-one package. The compact design eliminates the need for extras and accelerates installation, saving you time and money.

High reliability – Low piston speed and low interstage temperatures preserve the inner parts of the machines. The horizontal design ensures a low vibration/pulsation level for increased reliability. Design is close to API 618.

Advanced control and monitoring – The advanced Elektronikon® system helps you keep control of costs by monitoring overall system performance through service indications, malfunctions alarms and safety shutdowns.

Brochure Air and Gas High pressure compressors (2557kB, Pdf document) - [Download](#)

Technical data

 Units: [Metric](#) [Imperial](#)

Technical Specifications	
Capacity FAD (l/s)	75 - 2870 l/s
Working pressure	174 - 609 psig
Installed motor power	50 - 422 HP
Capacity FAD (m³/h, cfm)	160 - 6083 cfm
Capacity	158 - 6000 scfm
Inlet pressure	87 - 363 psi
Gases handled	air,nitrogen

Total customer care

Your bottom line, maximum availability of our equipment at minimum total operating cost, is the top priority for all of us at Atlas Copco. Our way of achieving that builds on interaction, on long-term relationships and involvement in your processes, needs and objectives.

Our organization and people are committed to the maximum operational availability and efficiency of your compressed air network. Total customer care is our goal at any level of service interaction with you; from standardized genuine parts over tailor-made service plans to remote monitoring and optimization.

We want you to see Atlas Copco as a real performance partner that can contribute to the productivity of your processes. The best way of taking care of your interest is by taking the best care of your equipment.

Save energy

With their detailed and extensive knowledge of compressed air, our energy and air consultant engineers will be able to determine an acceptable operating balance, that is both within the capabilities of your compressors and also adequate to satisfy your production with minimized operational running costs.

[Read more about Save energy](#)

Monitor your products



Keeping an eye on your equipment at all times is the best way for Atlas Copco to prevent production loss due to a breakdown. This inside view on your operation allows us to plan for maintenance pro-actively.

[Read more about Monitoring](#)

Customer support plans

What you need is a solution to keep your production optimal at all time and preferably at the lowest operating cost. Our specialized advisors will visit your production facilities and assess your specific needs. This allows us to propose the most cost effective Customer Support Plan for your maintenance needs.

[Read more about Support Plans](#)

Upgrade your product

Our upgrade kits are the result of continuous engineering work to make the latest technology available for your existing equipment range. This will inevitably improve the key performance features such as energy consumption and reliability. Intelligent use and the sustained health of core parts are the basic requirements for the lifelong optimum availability of your equipment.

[Read more about Product upgrades](#)

Genuine parts

Because Atlas Copco genuine parts are built according to the same quality standards as your compressor, you are guaranteed that your production, even after servicing your compressor, will remain at the same high level.

[Read more about Genuine parts](#)