

## ZH: Oil-free centrifugal compressors, 500-2750kW/ 600-3500HP



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**Atlas Copco Compressors LLC**  
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### Proven turbo technology

Equipped to save energy and guarantee reliability, Atlas Copco's ZH are ideal for customer processes with a fluctuating or constant air demand. These innovative compressors provide reliable operation in the most demanding environments. For optimum product quality, air is 100% certified oil-free according to ISO 8573-1 Class 0 (2010).

### Customer benefits

**Maximum uptime** – To ensure continuous production for the users ZH centrifugal compressors from Atlas Copco employ high-end features to guarantee maximum uptime. Milled impellers made from 15-5 ph stainless steel, spin tested at 115% of the nominal speed ensure zero defects. Variable geometry flexible pad bearings, carbon ring air seals, AGMA A4 gears and stainless steel coolers are some of the other features contributing to trouble free performance and high lifetimes. The horizontally split construction makes access for inspection and preventive maintenance easy and quick.

**Maximum energy savings** – Superior oil-free turbo air ends provide the optimum combination of a high flow with low energy consumption. Ample sized cooling, low pressure drops and an efficient drive train result in high compressor package efficiency. Further energy savings are possible with Atlas Copco's heat-of-compression MD, ND and XD dryers.

**Easy installation** – All-in-one standard package incorporating the latest technology in a built-to-last design includes internal piping, coolers, motor, lubrication, inlet guide vanes and control system and installation is fault-free, and commissioning is quick.

**Advanced Elektronikon® monitoring & control** – To help customers increase efficiency and reliability, Atlas Copco equips its compressed air products with advanced control and monitoring systems. Easily expandable with extra sensors, digital contacts, fieldbus, Internet and SMS communication functions, the Elektronikon® controller can be adapted to specific customer needs. Atlas Copco's ES central controllers are the most efficient way to monitor and control multiple compressors and blowers simultaneously as well as dryers and filters.

**Certified 100% oil-free** – ZH compressors provide you with 100% pure, clean air that complies with ISO 8573-1 CLASS 0 (2010) certification. Over the past sixty years Atlas Copco has pioneered the development of oil-free air technology, resulting in a range of air compressors and blowers that provide 100% pure, oil-free air. Through continuous research and development, Atlas Copco achieved a new milestone, setting the standard for air purity as the first manufacturer to be awarded ISO 8573-1 Class 0 certification.

**CLASS 0 means** : Zero risk of contamination. Zero risk of damaged or unsafe products. Zero risk of losses from operational downtime. Zero risk of damaging your company's hard-won professional reputation.

**Brochure ZH** (872kB, Pdf document) - [Download](#)

### Technical data

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

Technical Specifications	
Capacity FAD (l/s)	2453 - 7547 l/s
Capacity FAD (m³/h, cfm)	3050 - 16000 cfm
Working pressure	30 - 180 psig
Installed motor power	600 - 3500 HP

### 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.

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### 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](#)

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### 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](#)

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### 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](#)

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### 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](#)

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### 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](#)

### You may also be interested in



#### BD+

Blower purge desiccant air dryers, 100-3000 l/s, 212-6360 cfm.

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#### XD+

Heat of Compression desiccant dryers, 550 - 3600l/s, 1166 - 7630cfm, 1980 - 12960m³/h

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#### FD

Refrigerant air dryers, 6-4000 l/s, 13-8480 cfm.

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MD

Heat of compression rotary drum  
dryers, 88-2500 l/s, 185-5297 cfm.

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ND

Heat of compression rotary drum  
dryers, 1000-2500 l/s, 2120-5297  
cfm.

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ES

Central control solution

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Medium pressure compressors