

Oil-free centrifugal blowers

ZHA 8

High flow & efficiency & turndown & reliability



Low energy consumption

Atlas Copco engineers have more than 40 years of experience in impeller design. With all the different flow & pressure cuts available, we will always come with a reliable and energy-efficient solution. Thanks to IGV and optional DGV with servo actuators, we can maintain our high efficiency over 45% to 100% operation range. The modulating BOV can help you to further control the flow, ensuring you of reliable operation and broad application possibilities. With our advanced Elektronikon and Optimizer 4.0, our unit adapts to varying inlet conditions like ambient temperature, maintaining a high efficiency across the full working map.



Innovative design

Thanks to the coupling housing & flanged motor, the unit comes with a very compact footprint, allowing easy replacements. The use of journal bearings in the core reduces substantially the amount of oil required. This helps to bring down significantly the maintenance costs. The ZHA 8 can be easily customized with standard & engineered solutions options due to the modular platform concept.



Zero maintenance worries

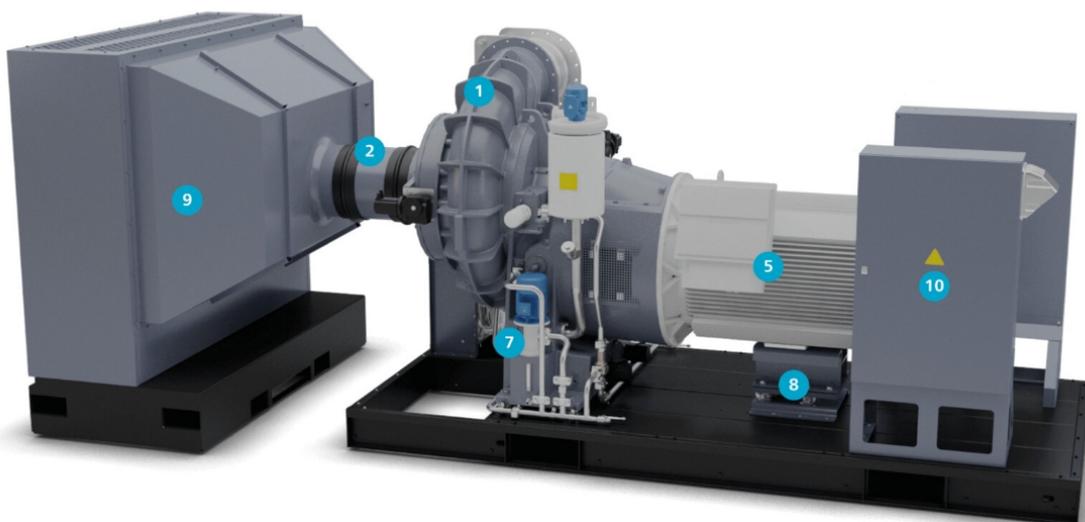
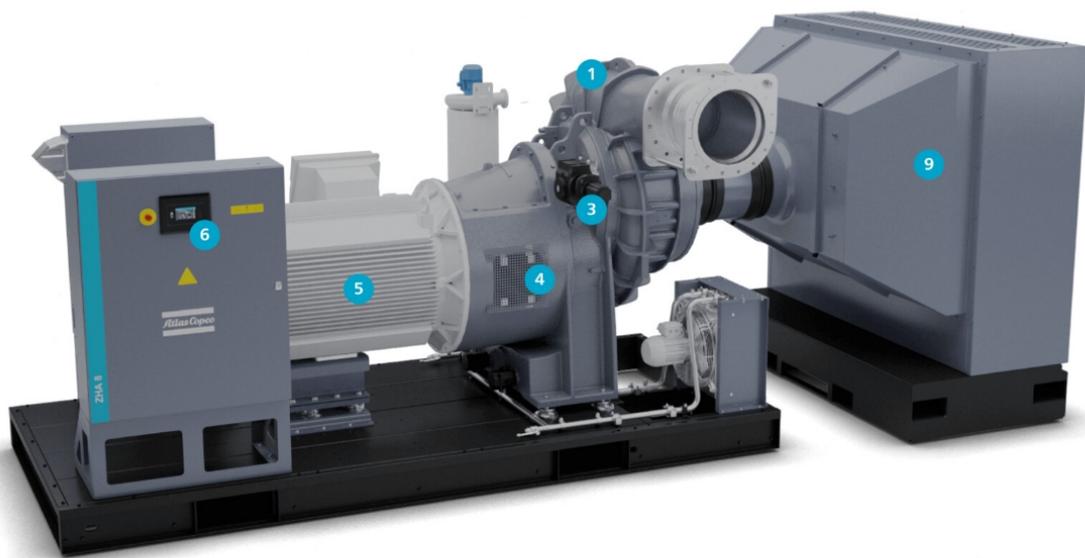
Extended service intervals of 1 year help avoid frequent maintenance jobs to keep machine running. We guarantee the availability of spare parts over the machine lifetime, you will no longer have the surprise on unavailability of spare parts. With our SMARTLINK monitoring system, we keep a close eye on the machine & act preventively to avoid a breakdown or standstill.



ZHA 8

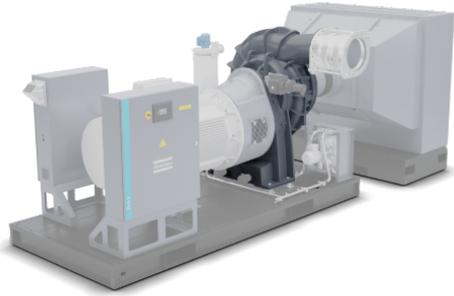
High efficiency and reliability

ZHA 8



1 Efficient, reliable and compact element

Certified oil-free compression technology (Class 0 certified)
Atlas Copco designed backward leaning impeller using CFD
Minimal air losses by carbon ring air seals
With journal bearing, less oil required



2 Energy saving inlet guide vanes with intelligent controls

Reliable, smart and efficient capacity control saving up to 9% on energy consumption at reduced compressed air demand
Reliable servo-moto actuator for accurate alignment with the variable air demand and large turndowns



3 Optional variable delivery guide vanes

Wider air adjustment range without blow-off
Larger high efficiency zone



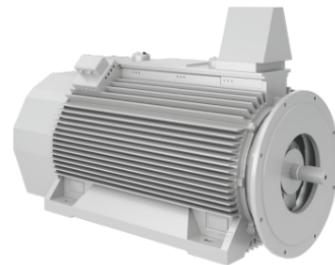
4 Most efficient transmission

Flexible rubber coupling brings power to the element
Dampens torsional stress
No re-greasing required, reducing maintenance cost and increasing reliability



5 Broad selection of highly efficient motor

Variety of motor choices (IP55 or IP23, low or medium voltage)
IE4 Efficiency rating
B35 connected motor provides excellent stability and compact footprint



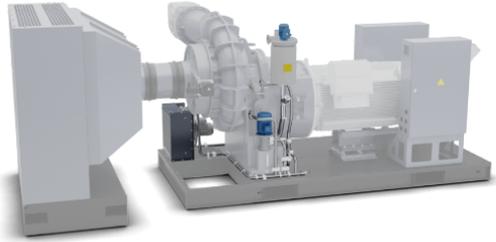
6 Advanced monitoring system

User-friendly Elektronikon
Advanced connectivity capabilities thanks to system process controller and/or Optimizer 4.0
Included warning indications, maintenance scheduling and online visualization of the machine's condition



7 On board full oil lubrication system

Includes oil reservoir with heater, temperature monitoring and level sight glass
Main shaft driven oil pump, supported by auxiliary oil pump during start-up and coast-down
Breather system preventing oil fumes
Flexible leakage-free connections



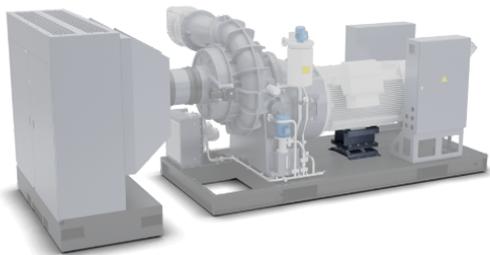
9 Optional high-efficiency inlet air filter

Combined with silencer to reduce noise level
High-efficiency and easily replaceable filters with long lifetime
Handy pressure drop indication on the control panel



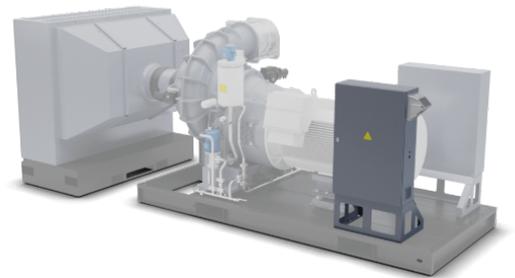
8 Unique structural design

Damper design help machine achieve better vibration levels
No anchor bolts required



10 Integrated Y-D starter cabinet

Lower starting current and reduce impact on the grid
High reliability contactor avoid failure risk
*only valid for low tension motor

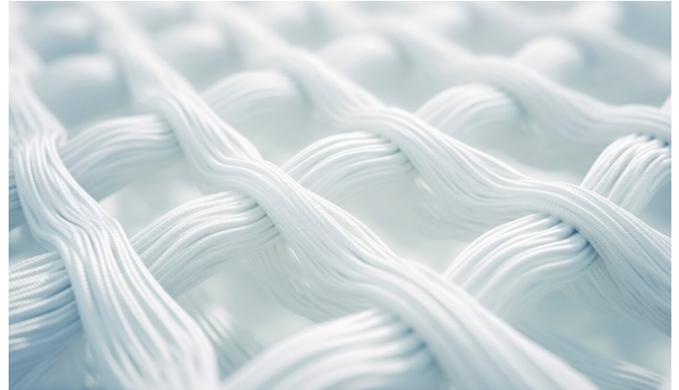


A reliable solution for your applications



Wastewater treatment

As the energy costs of a compressed air system can take up to 70% of the total energy consumption on wastewater treatment sites, we strive to drastically reduce your energy costs through constant innovation. Engineered for applications that require a high flow and have a variable air demand, our ZHA 8 geared turbo blower is an ideal fit for large municipal and industrial wastewater treatment sites. On top of that, our ZHA 8 delivers oil-free quality air, avoiding additional pollution.



Non-woven textile

More and more textile plants are reducing compressed air pressure throughout the production process to achieve more energy efficient production. Our ZHA 8 geared turbo blowers can offer a Class 0 certified and high efficiency reliable air in low pressure. In addition to this, you don't need to foresee extra measures connecting the blower in your blower room, the units are ready and easy to use.



Flue gas desulphurization

In large coal-fired power plants, who are running 24/7, the compressed air solution for FGD application need to be highly reliable with high flow. Our ZHA 8 geared turbo blower is the best choice for such customers and make you no worry about the downtime. They are designed to offer a constant reliable high air flow at minimal energy cost.



Fermentation

Oil-free air for food & beverage and pharmaceutical manufacturing must be qualified to certain standards to avoid contamination. Class 0 certificated ZHA 8 geared turbo blowers avoid compromising the purity of your end products and ensure zero risk of contamination by ensuring no oil is added during the compression process and thus delivering you 100% oil free air if the atmosphere doesn't contain any oil particles.

Flexibility installation



Starter / Control panel



Integrated oil circuit



Check valve



Modulating blow-off valve



Discharge cone



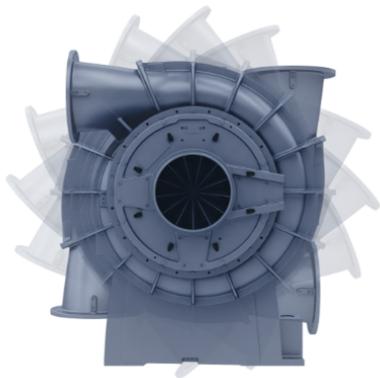
Outlet compensator



Inlet filter
Optional

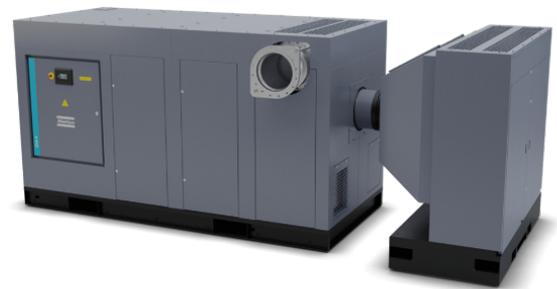


Blow-off silencer
Optional



Multi-angle air discharge direction

- 16 different directions optional
- Easy for replacement



Integrated soundproof design

- Ensures optimal working conditions for everyone in the immediate environment
- Integrated design with very compact footprint

Technical specification

ZHA 8(50 Hz & 60 Hz)

Type	Working pressure	Max. capacity FAD	Noise level	Max. installed motor power	Dimensions	Weight
	bar(g)	m ³ /hr	dB(A)	kW	L x W x H (mm)	kg
ZHA 8	≤1.2	32,000	≤80	1000	3890 x 1700 x 2580	6,350

Type	Working pressure	Max. capacity FAD	Noise level	Max. installed motor power	Dimensions	Weight
	psig	cfm	dB(A)	hp	L x W x H (inch)	lb
ZHA 8	≤17	18,834	≤80	1341	153 x 67 x 101	14,000

(1) Noise level value is without canopy.



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