

Oil-free high-speed turbo blowers

ZB 5/6/7 VSD+

Exclusive design with proven efficiency

The newest generation of Atlas Copco's ZB 5/6/7 VSD+ magnetic bearing turbo blowers gives you industry-leading energy efficiency and reliability. Compact in size and delivered plug-and-play, the ZB VSD+ features exclusive, in-house developed technologies and premium components for a longer lifetime of superior performance and operational savings.

Advanced energy savings

- Variable Speed Drive technology and optimized aero impeller design maximize efficiency at different pressure and flow ranges.
- IE5 permanent magnet motor enables advanced energy savings.
- High-quality components selected for efficient performance.

Increased reliability

- Magnetic bearing technology ensures top module reliability.
- No power bank is needed in case of power failure.
- Separate cooling and air flows avoid pressure drops.
- Low vibration levels extend component lifetime and reduce noise levels.

Easy installation and operation

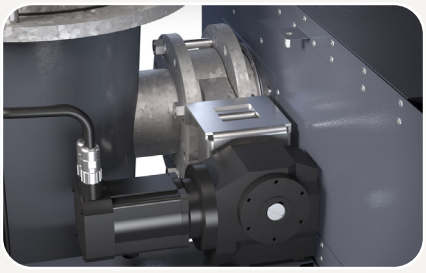
- Plug and play installation.
- Complete, fully integrated package keeps footprint compact.
- Elektronikon® controller and **SMART**LINK connectivity allow for easy control, remote monitoring, and performance optimization.

Built for reliable operation



State-of-the-art maglev turbo blower technology

Magnetic bearings remove the need for lubrication and reduce component wear. No compressed air is used to run the machine, ensuring stable and efficient operation. No power bank is needed in case of power failure.



Optimal operation in variable conditions

Atlas Copco's Variable Speed Drive (VSD) technology – with high-precision inverter management – and the modulating blow-off system let the blower adapt to fluctuating air demand while maintaining a stable flow without fully shutting off, even during a surge.



Fully integrated design

The ZB VSD⁺ comes in one complete, compact package – including inlet filter, blow-off valve and silencer – that is ready for operation upon arrival.

Low noise

The maglev bearing enables contactless operation, resulting in low vibration levels, which ensures long component lifetime and minimal noise.

A perfect fit for all your applications

The ZB VSD⁺ is a perfect fit for a wide range of low-pressure applications:

- Wastewater treatment
- Fermentation
- Pneumatic conveying
- Flue gas desulphurization

No hidden surprises

Comparing blowers can be complicated. Atlas Copco keeps it simple: you get what we quote. We don't confuse you with differences between inlet or delivered flow, shaft or package power. We tell you exactly which flow and pressure our machines will produce for your process as well as how much electricity in total the unit will consume. And if you have questions, our sales representatives are always happy to help!

Technical specifications

Model	Working pressure		Max. capacity FAD		Noise Level (1)	Max. installed motor power	Dimensions (L x W x H)		Weight	
	mbar(g)	psi(g)	m³/hr	cfm	dB(A)	kW	mm	inch	kg	lbs
ZB 5 VSD⁺	1,400	20	7,200	4,300	69	150	1900 x 1200 x 1980	75 x 47 x 78	1,535	3,384
ZB 6 VSD⁺			12,000	7,000	74	250	2515 x 1200 x 1980	99 x 47 x 78	1,780	3,924
ZB 7 VSD⁺			20,000	11,800	77	400	2825 x 1600 x 2112	111 x 63 x 83	2,920	6,437

Reference conditions: 1bara 20°C, RH 0%
(1) A-weighted emission sound pressure level at the workstation, Lp WSA (re 20 µPa) dB (with uncertainty 3 dB).
Values determined according to noise level test code ISO 2151 and noise measurement standard ISO 9614

Options

- Low-pressure drops check valve
- Compensator for piping connection
- Flanged air inlet with or without filter
- Anchor pads
- Performance test certificate
- Witness performance test

Atlas Copco

LLOYD'S REGISTER · LRQA
ISO 9001 • ISO 14001
OHSAS 18001

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