



Oil-free screw blower

ZS 4 (VSD(+)) (49-121 hp/37-90 kW)

Next-level smart, quiet and efficient

The Atlas Copco ZS 4 (VSD(+)) delivers powerful, efficient, and quiet performance for demanding industrial applications. Its oil-free screw technology and high-efficiency IE4/IE5 motor platform ensure lower energy use and long-term reliability. With its smart pressure split design, the ZS 4 adapts seamlessly to varying pressure needs, excelling in wastewater aeration, pneumatic conveying, and general industrial processes. Compact, durable, and truly plug-and-play, it delivers stable performance, reduced noise, and dependable operation in the toughest environments.



Low Total Cost of Ownership (TCO)

- High-efficiency IE4/IE5 motor reduces energy consumption.
- Smart pressure split boosts SER efficiency by 3% to lower operating costs.
- Plug-and-play design minimizes installation, service, and downtime.
- Up to 35% more energy efficient compared to traditional lobe blowers.



Superior performance

- Stable airflow even under constant load.
- Smart pressure split optimizes output across varying pressure demands.
- Class 0 oil-free compression ensures clean, reliable air.
- Noise levels as low as 75 dB(A) enhance operational comfort and productivity.



Premium reliability

- Extended 5-year warranty on the screw element, designed for up to 60,000 operating hours.*
- Robust components built for a long service life in harsh industrial conditions.
- Stable performance with reduced mechanical stress and fewer failure points.

*Warranty is valid provided original Atlas Copco spare parts are used and all service is performed by Atlas Copco certified service personnel.

Built for the demands of modern low-pressure applications

1 Durable screw element and precision-built drivetrain

Purpose-designed drivetrain offers long service life and dependable uptime in demanding environments.

2 High-efficiency IE4/IE5 motor technology

Advanced motor platform minimizes energy loss, ensuring top efficiency across the entire pressure range.

3 Low noise and vibration for smoother operation

Refined acoustics and internal damping reduce noise levels to as low as 75dB(A).



4 Flexible configuration

Available in fixed speed or VSD with multiple pressure options to meet the needs of a wide range of installations.

5 Small footprint

Compact design allows for side-by-side installation to maximize floor space.

6 Quick and easy maintenance

Easy access to serviceable components makes routine maintenance faster and simpler.

- Class 0 oil-free air
- Airflow up to 3,100 m³/h
- Pressure up to 1.5 bar
- Power options from 37 to 90 kW

Smart pressure split design

The ZS 4 (VSD(+)) is available with a low-pressure (below 800 mbar) element for applications such as wastewater aeration. For pneumatic conveying and other industrial applications, it offers an advanced high-pressure element. This smart pressure split design ensures always-optimal operation for applications with varying pressure needs.

A variety of applications and industries

Applications	Industries
Aeration	Wastewater treatment
Pneumatic conveying	Cement
Fermentation	Food
Combustion air	Chemical
Fluidization	Textile
Truck unloading	Beverage
Flotation	Pharmaceutical

Technical specifications

Model	Power		Performance				Noise	Dimensions			Weight	
			Max FAD		Max Pressure			Length	Height	Width	lb	Kg
	hp	kW	CFM	m ³ /h	psi(g)	mbar(g)	dB(A)					
ZS 4 (VSD(+))	50	37	1284	2182	21.7	1500	75	1490 mm (58.7 inch)	1740 mm (68.5 inch)	1250 mm (49.2 inch)	3263	1480
	60	45	1538	2613	21.7	1500	75	1490 mm (58.7 inch)	1740 mm (68.5 inch)	1250 mm (49.2 inch)	3294	1494
	74	55	1771	3009	21.7	1500	75	1490 mm (58.7 inch)	1740 mm (68.5 inch)	1250 mm (49.2 inch)	3725	1690
	101	75	1847	3138	21.7	1500	75	1490 mm (58.7 inch)	1740 mm (68.5 inch)	1250 mm (49.2 inch)	3849	1746
	121	90	1893	3217	21.7	1500	75	1490 mm (58.7 inch)	1740 mm (68.5 inch)	1250 mm (49.2 inch)	3915	1776

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