

The Atlas Copco logo is displayed in white text on a teal rectangular background in the top right corner of the image.A teal triangular graphic in the bottom left corner contains a white technical drawing of a mechanical component, likely a blower or compressor, with various lines and labels.

## Going Way Beyond The Compressor Room

A Guide to Low-Pressure Blowers  
and Applications.

# Introducing Our Innovative Line Up

The capabilities of Atlas Copco extend way beyond the compressor room. We take our industry-leading, patented technology and diffuse this innovation to products where it can real make a difference. We summarize the overall benefit of our blower range with the acronym – **T.C.O.**

**Technology:** Ultimately innovation is built on technology and we don't just mean inside the blower. With 24x7 remote monitoring, advanced touch screen controllers and centralized control systems, we can guarantee that you will be in full control of your process.





**Choice:** With seven low-pressure blower technologies available, we fit the absolute best technology to you – no favoritism involved. Having the complete range is the only way we can guarantee efficiency to our customers.

**Options:** You always get to configure a product when it comes to our blower range. You choose the technology which is right for you and then the options to ensure it's the perfect fit for your needs and maximizing efficiency and reliability.

And it's no coincidence that **T.C.O. also stands for Total Cost of Ownership!** Atlas Copco can just about guarantee you that our blower range will be the most efficient product for your application over the cost of its lifetime, when you factor the cost of purchase, electricity usage, and service (downtime) costs.

What's more? We have the calculators to show you the complete payback analysis before you even part with one dollar.

# Product Overview

Technology			Product	Pressure				Flow (FAD)			
				psig		bar(g)		cfm		m <sup>3</sup> /h	
				min.	max.	min.	max.	min.	max.	min.	max.
	Lobe	Blower	ZL	4.4	14.5	0.3	1.0	20	5,600	30	9,500
		Compressor	ZE/ZA	14.5	58	1.0	4.0	140	5,200	240	8,900
	Screw	Blower	ZS	4.4	22	0.3	1.5	160	5,300	270	9,100
		Compressor	ZE/ZA	14.5	58	1.0	4.0	140	5,200	240	8,900
		Direct Drive Blower	ZB	4.4	20	0.3	1.4	750	7,100	1,300	12,000
	Turbo	Geared Compressor	ZHL/ZH	14.5	58	1.0	4.0	1,400	22,000	2,400	38,000
		Centrifugal Blower	ZM	1.5	20	0.1	1.4	200	41,000	350	70,000
	Claw	Blower	DZS	7.3	33.3	0.5	3.0	30	200	50	340

# ZL

## Oil-Free Rotary Lobe Blower

- Flow rate from 20–5,600 cfm
- Pressure from 4.4–14.5 psig

### The Dependable Package

Thanks to the simplicity and the tested design of the lobe blower, it is the ideal choice for difficult environments around the world that have limited supervision requirements, providing the exact amount of air required by the application.



# ZS

## Oil-Free Screw Blower

- Flow rate from 160–5,300 cfm
- Pressure from 4.4–22 psig

### The Innovation Package

The ZS blower is designed to guarantee maximum product safety. It ensures a continuous and long-term supply of oil-free air. It is highly reliable and energy efficient in all your applications and has the lowest possible operating costs.



## ZB

### Oil-Free Drive Drive Centrifugal Blower (With Magnetic Bearings)

- Flow rate from 750–7,100 cfm
- Pressure from 4.4–20 psig

#### Guaranteed Reliability

Low-pressure compressed air is the basis of many production processes. A reliable and constant flow is essential, and the air quality must be high. The Atlas Copco ZB range is the ideal choice for meeting the high demands of these processes. This range offers a complete package that comes with all the components perfectly synchronized.



## ZE/ZA

### Oil-Free Single-Stage Screw Air Compressor

- Flow rate from 140–5,200 cfm
- Pressure from 14.5–58 psig

#### Plug-and-Play

The ZE/ZA compressor is supplied as a ready-to-go, all-in-one package and includes a powerful controller and an optional integrated after-chiller (internal or external depending on the model). The completeness of the supply eliminates the need for additional components and minimizes installation work, consequently saving time and money.



# ZM

## Oil-Free Centrifugal Blower

- Flow rate from 200–41,000 cfm
- Pressure from 1.5–20 psig



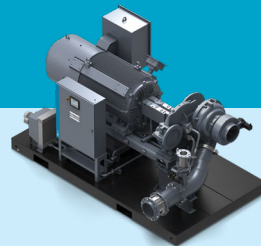
### The Power You Need

The ZM series is a centrifugal blower with oil-free compression and a variable number of stages, depending on the desired flow rate and pressure.

# ZHL/ZH

## Oil-Free Geared Turbo Compressor

- Flow rate from 1,400–22,000 cfm
- Pressure from 14.5–58 psig



### High Flow - High Reliability

Available as one-stage (ZHL) or two-stage (ZH) solution, our geared turbo compressors provide air for applications with a high air volume flow demand and pressure.

# DZS

## Oil-Free Dry Claw Blower

- Flow rate from 30–200 cfm
- Pressure from 7.3–33.3 psig



### Low Flow - Low Life Cycle Cost

Our DZS dry claw blowers are an ideal solution for applications that require a low air volume flow and pressure. The small and compact unit are suited for both centralized and decentralized systems and require a low level of maintenance.

## Harmonized Solutions

- 24/7 Remote Monitoring
- Centralized Control System
- Family-Style Controllers Across Models and Technologies
- Single Service Contract for Multiple Machines
- Nationwide Support by Factory-Trained Service Technicians



## Service and Support is Guaranteed

Atlas Copco has a factory-trained team of over 350 technicians across the United States, backed by dedicated low-pressure experts and key distributors. We offer a complete turnkey package to take care of every aspect of your application, including remote monitoring and optimization services.



## Wastewater Treatment



### Applications Guide:

A guide to some of the most popular applications

*All technologies guarantee 100% Class-0 oil-free air quality.*



Lobe

Blowers

(ZL)



Screw

Blowers

Compressors

(ZE/ZA)



Turbo

High-speed  
blowers  
(ZB VSD\*)

Geared  
blowers  
(ZB\*)

Geared  
compressors  
(ZHL/ZH)

Multi-  
stage  
blowers  
(ZM)



Claw





Blowers

(DZS)

Filter backwash	✓	✓					✓	✓
Aerated lagoon		✓		✓	✓		✓	✓
Oxidation ditch		✓		✓	✓		✓	✓
Activated sludge	✓	✓		✓	✓		✓	✓
Sequencing batch reactor	✓	✓					✓	
Membrane bioreactor	✓	✓		✓	✓		✓	
Bio-aerated filters		✓		✓	✓		✓	✓
Channel aeration	✓	✓		✓	✓		✓	✓
Digestors	✓	✓						





## Cement



								
	Blowers	Blowers	Compressors	High-speed blowers (ZB VSD*)	Geared blowers (ZB*)	Geared compressors (ZHL/ZH)	Multi-stage blowers (ZM)	Blowers
	(ZL)	(ZS)	(ZE/ZA)	(ZB VSD*)	(ZB*)	(ZHL/ZH)	(ZM)	(DZS)
Pneumatic conveying (pressure)	✓	✓	✓	✓	✓	✓		✓
Pneumatic conveying (vacuum)	✓						✓	
Truck, train and bulk unloading	✓	✓	✓	✓	✓			✓
Airlift system	✓	✓	✓					✓
Silo fluidization	✓	✓					✓	✓
Combustion air for kilns	✓	✓		✓	✓		✓	
Filter dustbin aeration	✓	✓	✓					✓

## Oil and Gas







								
	Blowers	Blowers	Compressors	High-speed blowers (ZB VSD*)	Geared blowers (ZB*)	Geared compressors (ZHL/ZH)	Multi-stage blowers (ZM)	Blowers
	(ZL)	(ZS)	(ZE/ZA)	(ZB VSD*)	(ZB*)	(ZHL/ZH)	(ZM)	(DZS)
Sulfur recovery	✓			✓	✓		✓	
Thermal incineration/oxidation (tail gas)				✓	✓		✓	
Carbon black			✓				✓	
Sour gas							✓	
Gas boosters	✓						✓	
Offload gas recovery	✓						✓	
Vapor control	✓						✓	
Conveying	✓	✓	✓	✓	✓		✓	
Wastewater treatment	✓	✓		✓	✓		✓	✓







## Food and Beverage



								
	Lobe	Blowers	Compressors	High-speed blowers	Geared blowers	Geared compressors	Multi-stage blowers	
	(ZL)	(ZS)	(ZE/ZA)	(ZB VSD*)	(ZB*)	(ZHL/ZH)	(ZM)	
	Blowers						Blowers	
	(ZL)	(ZS)	(ZE/ZA)	(ZB VSD*)	(ZB*)	(ZHL/ZH)	(ZM)	(DZS)
Pneumatic conveying (pressure)	✓	✓	✓	✓	✓	✓		✓
Pneumatic conveying (vacuum)	✓						✓	
Fermentation	✓	✓	✓	✓	✓	✓		✓
Packaging (vacuum)							✓	
Truck unloading	✓	✓	✓	✓	✓			✓
Wastewater treatment	✓	✓		✓	✓		✓	✓





## Aquaculture



								
	Lobe	Blowers	Compressors	High-speed blowers	Geared blowers	Geared compressors	Multi-stage blowers	
	(ZL)	(ZS)	(ZE/ZA)	(ZB VSD*)	(ZB*)	(ZHL/ZH)	(ZM)	
	Blowers						Blowers	
	(ZL)	(ZS)	(ZE/ZA)	(ZB VSD*)	(ZB*)	(ZHL/ZH)	(ZM)	(DZS)
Basin aeration	✓	✓	✓	✓	✓		✓	✓
Feeding systems (pneumatic conveying)	✓	✓	✓	✓	✓			✓
Bubble curtain	✓	✓	✓	✓	✓		✓	✓
Live fish handling	✓	✓						✓
Dead fish removal		✓	✓					✓





## Mining



								
	Lobe	Screw		Turbo			Claw	
	Blowers (ZL)	Blowers (ZS)	Compressors (ZE/ZA)	High-speed blowers (ZB VSD*)	Geared blowers (ZB*)	Geared compressors (ZHL/ZH)	Multi-stage blowers (ZM)	Blowers (DZS)
Leaching	✓	✓	✓				✓	
Pneumatic conveying (pressure)	✓	✓	✓	✓	✓	✓		✓
Pneumatic conveying (vacuum)	✓						✓	
Flotation cells			✓				✓	
Combustion air for kilns, roasters and fluidized bed	✓	✓		✓	✓		✓	
Coal bed methane	✓	✓					✓	
Wastewater treatment	✓	✓		✓	✓		✓	✓

## Energy



								
	Lobe	Screw		Turbo			Claw	
	Blowers (ZL)	Blowers (ZS)	Compressors (ZE/ZA)	High-speed blowers (ZB VSD*)	Geared blowers (ZB*)	Geared compressors (ZHL/ZH)	Multi-stage blowers (ZM)	Blowers (DZS)
Oxidation air	✓	✓		✓	✓	✓	✓	✓
LFG extraction	✓	✓					✓	
CO <sub>2</sub> recovery system		✓					✓	
Combustion air	✓	✓	✓	✓	✓		✓	✓
Fluidization air	✓	✓	✓				✓	✓
Pneumatic conveying (pressure)	✓	✓	✓	✓	✓	✓		✓
Pneumatic conveying (vacuum)	✓	✓					✓	
Wastewater treatment	✓	✓		✓	✓		✓	✓

# Service Solutions



24/7 Uptime



Factory Trained Technicians

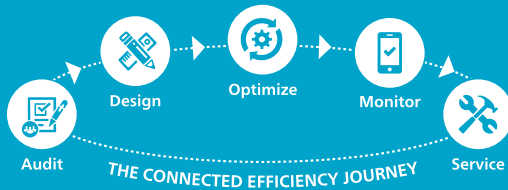


Customized Service Plans



Remote Monitoring

Any product you buy from us will enhance the productivity of your business at the lowest cost of ownership over its lifetime. **This is our promise to you!**



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