

The Atlas Copco logo, featuring the brand name in a white, italicized serif font, centered between two horizontal white bars. It is positioned in the top right corner of a teal-colored banner that covers the upper portion of the image.

Atlas Copco

The Atlas Copco logo, featuring the brand name in a white, italicized serif font, centered between two horizontal white bars. It is positioned on the left side of the teal banner.

Atlas Copco

Oil-injected rotary screw compressors

GA 90-160s (VSDs)



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Test images Jochem

Highest reliability, lowest operating costs

The shortest route to maximize your profitability is to minimize your operational costs. With up to 80% of a compressor lifecycle cost coming from the energy it consumes, this should be a clear focus. Atlas Copco's GA compressors with SmartInjection enabled compression elements and IE4 or better class motors are designed to achieve significant energy savings while providing long and trouble-free life even in the harshest environmental conditions.

Build energy savings into your process

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Highest reliability, lowest operating costs

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Efficiency

At the heart of the GA compressors are state-of-the-art compression elements with SmartInjection technology and high efficiency oil cooled IE4 or better class motors. This highly efficient drive train coupled with generous cooling capacity, low internal pressure drops and precise control from the Elektronikon® Touch ensures optimum efficiency.



Reliability

The GA compressor's drive train is IP66 rated protecting it completely from environmental dust and moisture ensuring it can operate reliably in the toughest conditions and at ambient temperatures up to 55°C/131°F.



Serviceability

Service time is reduced to a minimum with all service parts grouped together for ease of access and, if greater access is required, the patented portal design enables full access to all components. Each component has also been designed for serviceability, halving the time required to service compared to traditional designs.



Superior air quality with zero contamination risk

High-quality air is essential to protect your system from contamination and avoid extra costs arising from product spoilage, leaks, maintenance, and replacement of pipe work. Atlas Copco is unique in being able to provide a complete range of in house designed products perfectly matched to provide clean dry air, optimum performance and low lifecycle costs.



Clean air reduces operating costs

It's important to have high quality air, because contaminated air creates extra costs. It is better to avoid system contamination rather than deal with the consequences such as product spoilage, maintenance costs, replacing pipe work or leakages. Atlas Copco offers a range of quality air solutions.

Integrated air quality

The GA 90-160 VSDs is designed to deliver quality air.

- Multiple smaller cartridges simplify and reduce service times and minimize oil carry over.
- The GA Full Feature comes with an integrated dryer for greater air quality.
- Guaranteed dewpoint of 3°C/37°F.
- Continuously monitored dew point.
- New oil separator vessel with filter cartridges.





Air dryers

Our range of air dryers protect your systems and processes in a reliable, energy-efficient and cost-effective way.

Protecting your systems and processes

Treated air helps prevent pipework corrosion, product spoilage and premature failure of pneumatic equipment.

Maintaining the quality of your end product

A complete range of products with dew points from +3 to -70 °C to ensure the correct air quality for your application.

Energy-efficient air dryers

All our air dryers are designed to perform in the most energy-efficient and environmentally friendly way.

Simple in concept, advanced in design

GA 90-160s (VSDs)



1 Advanced Elektronikon® Touch monitoring system

- Integrated smart algorithms reduce system pressure and energy consumption.
- Access to warning indications, maintenance scheduling and online visualization of machine's condition.



2 Optimized oil flow

- SmartInjection ensures the elements always get an optimized oil flow.
- Cooled oil flow extends the lifetime of the bearings.

3 Built for harsh conditions

- Withstands temperatures up to 46°C/115 °F as standard.
- Single air in- and outlet for easy ducting through the roof.
- VSD cooling fans save energy in colder periods.



4 Energy Recovery system (option)

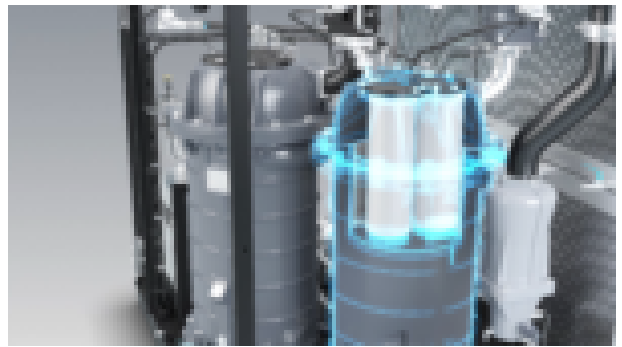
- Optional integrated energy recovery system.
- Up to 78% of energy from the integrated motor and element oil circuit can be recovered as hot water.

5 Highly reliable motor

- Designed for dependable performance, even in tough environments.
- IP66 rated drive train is completely sealed against dust and moisture.

6 Smart component design and layout

- Components designed to minimize service time by 50%.
- Cartridge type oil separator elements for easy replacement.
- Easy-to-clean coolers with sliding design.
- Separately mounted minimum pressure valve for quick servicing.
- Service parts grouped together for ease of access and maximum uptime.



7 Excellent air quality

- Integrated water separator removes 100% of condensate, improving reliability for downstream dryers.
- Optional integrated refrigerant dryer achieves the highest quality air.

GA 90-160s – 50 Hz

Technical specifications (metric units)

Type	Maximum working pressure		Capacity FAD (1)		Installed motor power	Noise level (2)	Weight	
	Standard	Full Feature (3)	Standard / Full Feature (3)				kW	dB(A)
	bar(e)		l/s	m ³ /min	kg			
GA 90s	5.5	5.3	353	21.2	90	76	2800	3200
	7.5	7.3	297	17.8				
	8.5	8.3	284	17.0				
	10	9.8	260	15.6				
GA 110s	5.5	5.3	424	25.4	110	77	2700	3100
	7.5	7.3	370	22.2				
	8.5	8.3	347	20.8				
	10	9.8	316	19.0				
GA 132s	5.5	5.3	502	30.1	132	78	2800	3200
	7.5	7.3	440	26.4				
	8.5	8.3	414	24.8				
	10	9.8	382	22.9				
GA 160s	7.5	7.3	525	31.5	160		2900	3300
	8.5	8.3	495	29.7				
	10	9.8	460	27.6				

Technical specifications (imperial units)

Type	Maximum working pressure		Capacity FAD (1)		Installed motor power	Noise level (2)	Weight	
	Standard	Full Feature (3)	Standard / Full Feature (3)				kW	dB(A)
	psig		l/s	cfm	lb			
GA 90s	80	77	353	748	90	76	6173	7055
	109	106	297	629				
	123	120	284	602				
	145	142	260	551				
GA 110s	80	77	424	898	110	77	5952	6834
	109	106	370	784				
	123	120	347	735				
	145	142	316	670				
GA 132s	80	77	502	1064	132	78	6173	7055
	109	106	440	932				
	123	120	414	877				
	145	142	382	809				
GA 160s	109	106	525	1112	160		6393	7275
	123	120	495	1049				
	145	142	460	975				

(1) Unit performance measured according to ISO 1217, Annex C, Edition 4 (2009). Reference conditions: absolute inlet pressure 1 bar (14.5 psi) / intake air temperature 20°C (68°F).

(2) A-weighted emission sound pressure level at the work station, 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.

(3) Integrated dryer (FF): compressed air pressure dewpoint at dryer reference conditions 3°C (37°F).

Table test PDF

Table test metric

Type	L		W		H	
	mm	inch	mm	inch	mm	inch
GA 90-160s	2500	98.5	1785	70.3	2020	79.5
GA 90-160s (FF)	2900	114.2	1785	70.3	2020	79.5

Table test imperial

Type	L		W		H	
	mm	inch	mm	inch	mm	inch
GA 90-160s	2500	98.5	1785	70.3	2020	79.5
GA 90-160s (FF)	2900	114.2	1785	70.3	2020	79.5

Free Air Delivery (1) is measured at:

	Standard	Full Feature
5.5 bar version at	5 bar	5 bar
7.5 bar version at	7 bar	7 bar
8.5 bar version at	8 bar	8 bar
10 bar version at	9.5 bar	9.5 bar

Dimensions

Type	L		W		H	
	mm	inch	mm	inch	mm	inch
GA 90-160s	2500	98.5	1785	70.3	2020	79.5
GA 90-160s (FF)	2900	114.2	1785	70.3	2020	79.5



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