

Atlas Copco

Oil-injected rotary screw compressors

GA 90-160s (VSDs)

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.





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.



4 - GA 90-160s (VSDs)

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 90-160 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

- Smart Injection 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)

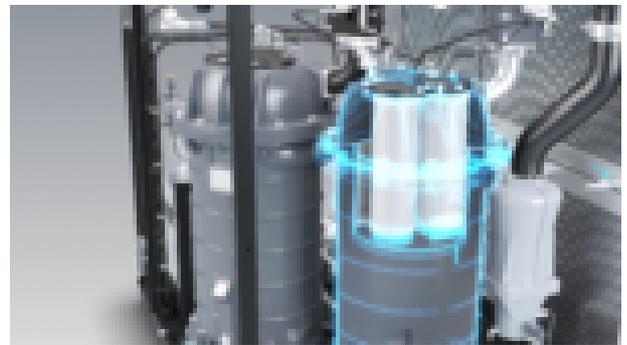
- Optional integrated energy recovery system.
- Up to 78% of energy from the integrated motor and element oil circuit can be recovered as hot water.

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

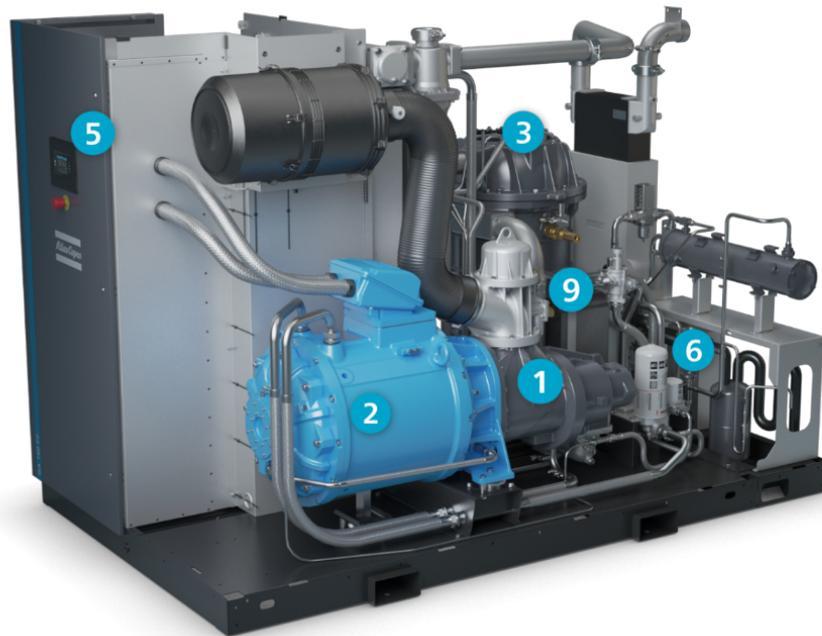
- Components designed to minimize service time by 50%.
- Cartridge type oil separator elements for easy replacement.
- Easy-to-clean coolers with sliding design.
- Separately mounted minimum pressure valve for quick servicing.
- Service parts grouped together for ease of access and maximum uptime.



7 Excellent air quality

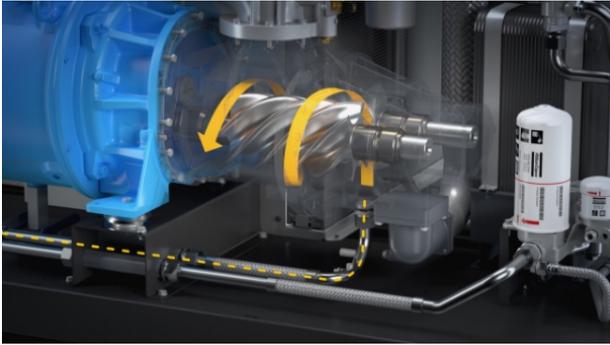
- Integrated water separator removes 100% of condensate, improving reliability for downstream dryers.
- Optional integrated refrigerant dryer achieves the highest quality air.

Water-cooled FF



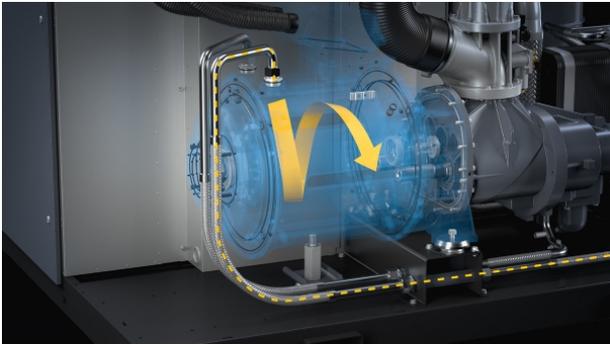
1 Always operates reliably

Separate oil flow to bearings for longer life and greater uptime.



2 High efficiency IE5 motor

- The motor is designed for increased reliability even in tough environments.
- IP66 rated drive train is completely sealed against dust and moisture.



3 Reduced service time for greater reliability

Minimizes disruption of the machine during service for better reliability.



4 Operates at temperatures up to 46°C (115°F) as standard

VSD or Dual Speed fans deliver energy efficiency in lower temperatures.



5 Advanced touch screen monitoring system

- Elektronikon® Touch.
- Integrated smart algorithms to reduce system pressure and energy consumption.
- Warning indications, maintenance scheduling and online visualization of the machine's condition.



6 Ease of maintenance

- Minimal service times with service parts grouped together for ease of access.
- Minimizes disruption of the machine during service for better reliability.



7 Excellent air quality

Integrated water separator removes 100% of the condensate. This improves the reliability for downstream dryers in the system.



8 5 year tip to toe warranty

All-inclusive warranty for the complete compressor.

9 Up to 78% of energy recovered as hot water

Optional integrated energy recovery system. Up to 78% energy recovered from integrated motor and element oil circuit.

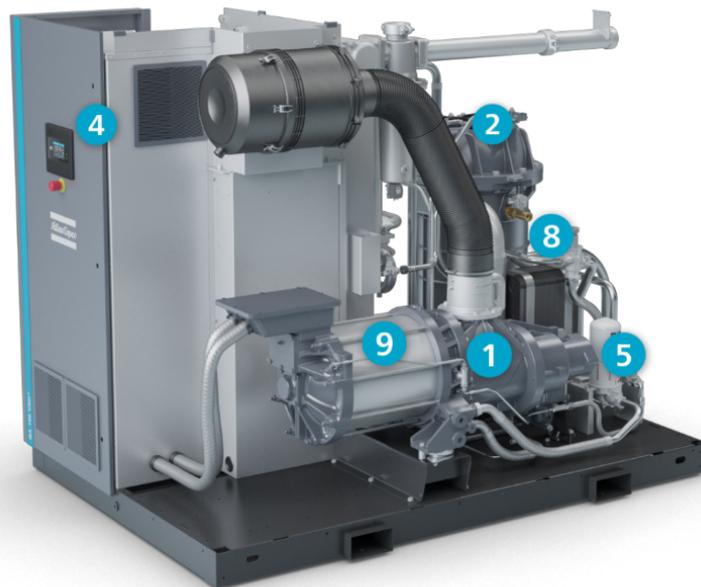
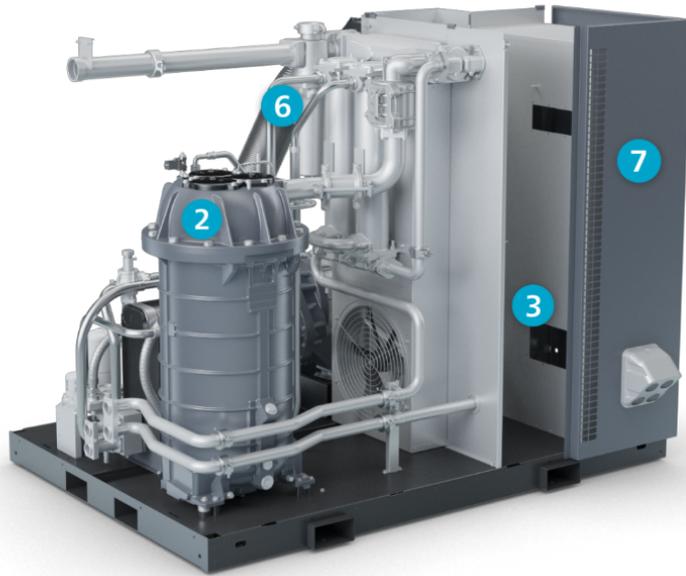


10 Ready-to-use compact package

- The GA Full Feature comes with an integrated dryer.
- Guaranteed dew point of 3°C/37°F (20°C ambient conditions).
- No additional installation work of wires and pipes.
- Continuously monitored dew point.

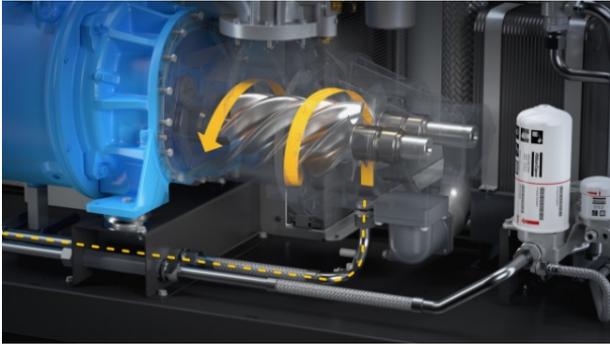


Water-cooled VSD



1 Always operates reliably

Separate oil flow to bearings for longer life and greater uptime.



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Minimizes disruption of the machine during service for better reliability.



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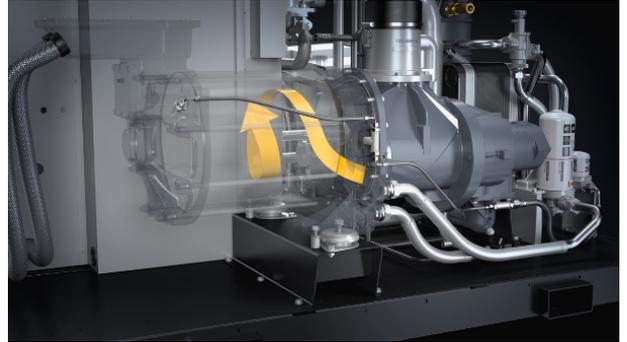
8 Up to 78% of energy recovered as hot water

Optional integrated energy recovery system. Up to 78% energy recovered from integrated motor and element oil circuit.

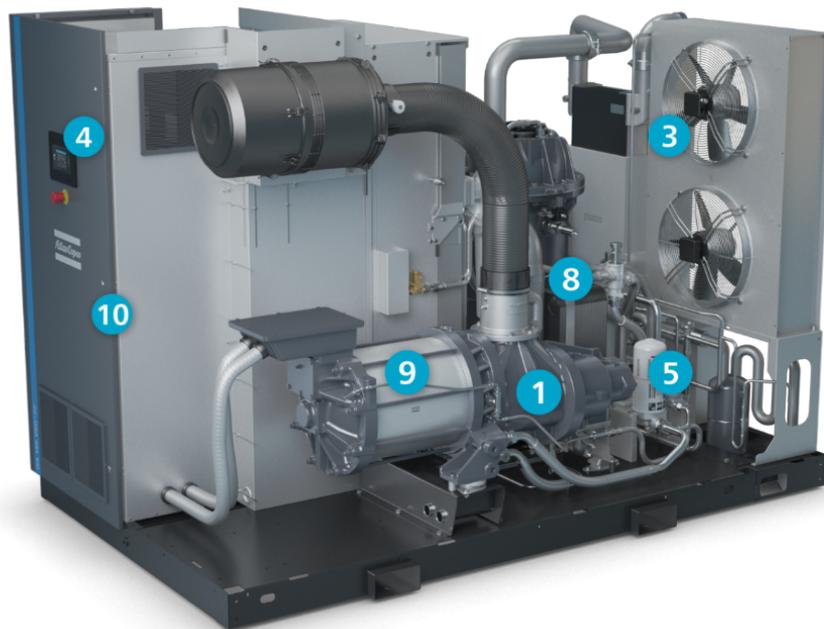


9 High efficiency IE5 Permanent Magnet Motor

- The motor is designed for increased reliability even in tough environments.
- IP66 rated drive train is completely sealed against dust and moisture.

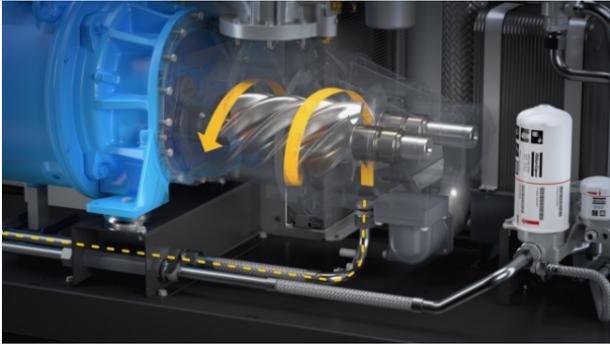


Air-cooled VSD FF



1 Always operates reliably

Separate oil flow to bearings for longer life and greater reliability.



2 Reduced service time for greater reliability

- The motor is designed for increased reliability even in tough environments.
- This IP66 rated motor is dust tight and protected against large amounts of water.



3 Operates at temperatures up to 46°C (115°F) as standard

VSD or Dual Speed fans deliver energy efficiency in lower temperatures.



4 Advanced touch screen monitoring system

- Elektronikon® Touch.
- Integrated smart algorithms to reduce system pressure and energy consumption.
- Warning indications, maintenance scheduling and online visualization of the machine's condition.



5 Ease of maintenance

- Minimal service times with service parts grouped together for ease of access.
- Minimizes disruption of the machine during service for better reliability.



6 Ready-to-use compact package

- The GA Full Feature comes with an integrated dryer.
- Guaranteed dew point of 3°C/37°F (20°C ambient conditions).
- No additional installation work of wires and pipes.
- Continuously monitored dew point.



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- IP66 rated drive train is completely sealed against dust and moisture.



10 Energy savings up to 35%

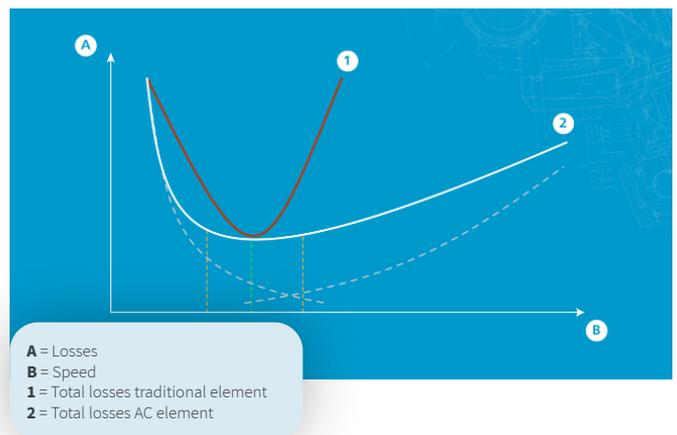
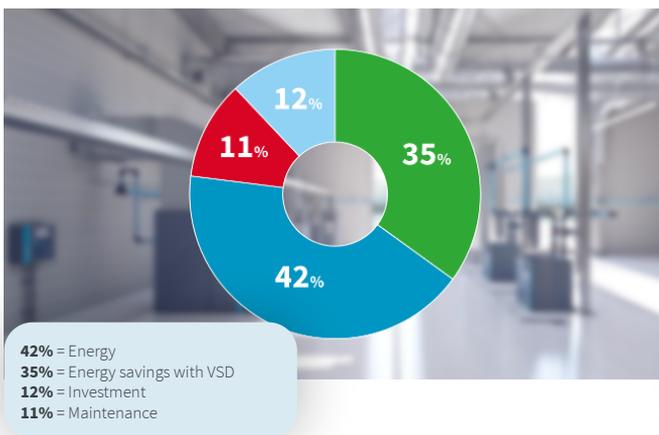
Variable Speed Drive (VSD) technology that follows air demand by automatically adjusting motor speed. The compressor will only run at the speed that is required.

Reducing consumption throughout your process

Did you know that compressed air generation amounts to over 40% of a plant's total electricity bill? And that energy consumption can account for over 80% of a compressor's lifecycle cost? For businesses serious about increasing their profits, energy consumption is an obvious target. It was therefore one of the leading design priorities for our GA compressors.

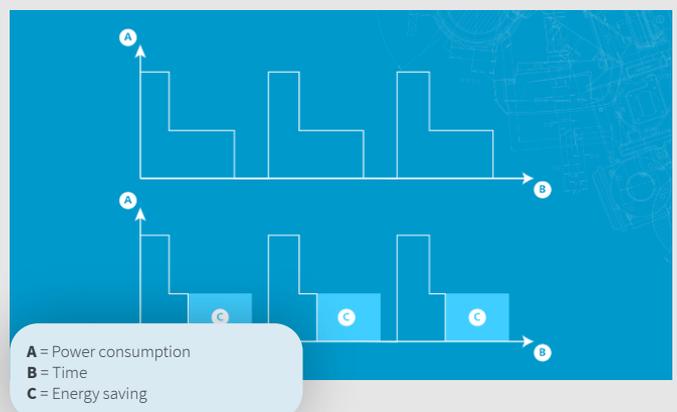
Variable Speed Drive (VSD)

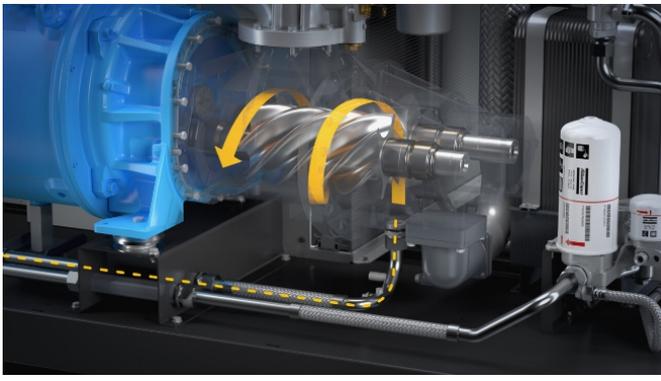
Atlas Copco pioneered VSD technology in the compressed air industry to offer major energy savings while protecting the environment for future generations. Today, we offer the widest range of integrated VSD compressors on the market. VSD technology automatically adjusts the motor speed to air demand, reducing energy consumption by up to 35% and cutting the compressor's lifecycle cost by an average of 22%. In addition, lowered system pressure with VSD minimizes energy use across your production.



Dual set-point and automatic stop

Most production processes create fluctuating levels of demand which, in turn, can create energy waste in low use periods. Using the Elektronikon® unit controller, you can manually or automatically switch between two different setpoints to optimize energy use and reduce costs at low use times. In addition, the sophisticated algorithm runs the drive motor only when needed. As the desired setpoint is maintained while the drive motor's run time is minimized, energy consumption is kept to a minimum.





Components designed for efficiency

- SmartInjection provides exact amount of oil required to element ensuring it always works at peak efficiency.
- High efficiency IE4 (Fixed Speed) and IE5 (VSDs) motor.
- Integrated energy recovery system recovers up to 78% of energy from integrated motor and element oil circuit.
- Dual speed or VSD fan for energy efficiency in lower temperatures.



Elektronikon Mk5 touch

The Elektronikon® unit controller is specially designed to maximize the performance of your compressors and air treatment equipment under a variety of conditions. Our solutions provide you with key benefits such as increased energy efficiency, lower energy consumption, reduced maintenance times and less stress... less stress for both you and your entire air system.

SMARTLINK

Monitor your compressed air installation with SMARTLINK

Knowing the status of your compressed air equipment at all times is the surest way to achieve optimal efficiency and maximum availability.

Go for energy efficiency

Customized reports on the energy efficiency of your compressor room.

Increase uptime

All components are replaced on time, ensuring maximum uptime.

Save money

Early warnings avoid breakdowns and production loss.



Optimizer 4.0

Minimizing excess pressure

Optimizer 4.0 minimizes the generation of excess compressed air by starting and stopping compressors. Its user friendly interface enables you to set multiple pressure bands, allowing you to optimize your compressor installation for varying circumstances, such as non-productive hours.

Full VSD benefits

With Optimizer 4.0 you can realize the full energy saving potential of VSD (Variable Speed Drive). It regulates the VSD to ensure that the compressed air output is proportional to the demand, preventing higher pressures than required, excess unloaded running, and spiraling energy costs.

Improving uptime

Optimizer 4.0 effectively eliminates production downtime caused by unexpected system pressure drops, because it regulates the system pressure instead of the compressor output pressure. This means Optimizer 4.0 will automatically adjust the system pressure to compensate for pressure drops due to filters, piping and dryers for example. We also provide additional functionality and services on Optimizer 4.0 to ensure that your energy savings will stand the test of time. Even when your installation needs adaptations or your demand changes.

Easy maintenance and low ownership costs

By taking proper care of your air compressor, you will reduce running costs and avoid the risk of unplanned breakdowns or production stops. Atlas Copco offers energy efficiency checks, service, repairs, spare parts, and maintenance plans for all air compressors. Entrust your servicing to our expert professionals and ensure your business continues to run efficiently.

Designed for serviceability, ease of maintenance

- Service parts grouped together for ease of access.
- Reduced service time for greater uptime.
- Portable design enables full access to all components.
- All components designed for serviceability.
- Oil cooled motors require no service interventions.



Compressor oils, lubricants and fluids

Every type of compressor and vacuum pump needs a specific oil to achieve maximum uptime, performance and lifetime. Our compressed air fluids and lubricants cover all your needs.

Unique mix of additives

Tailored to the specific needs of your equipment.

Anti-oxidation

The high-quality oil ensures maximum protection.

Prevent foaming

Anti-foaming improves your air quality.

Maximize your resources with a Service Plan

Reduce your total cost of ownership and benefit from optimal performance.

Save costs

Optimal maintenance will reduce the operational cost of your compressed air and vacuum system.

Increase operational efficiency

Our maintenance expertise makes life easier when it comes to resource management.

High uptime and performance

Specialist service keeps your equipment running as it should, protecting your investment.



Customized to your needs

With numerous optional features, we ensure the GA compressor is customized to meet different application requirements.

Energy recovery

The energy recovery system consists of a build-in stainless steel heat exchanger and thermostatic controlled system to recover the heat from the compressor in the form of warm water or hot water without any adverse influence on the compressor performance.



High ambient temperature variant

Reliable and continuous operation of the compressor in hot and humid environments up to:

- max. 55°C (131°F) for fixed speed pack
- max. 50°C (121°F) for VSD pack



Shock Pulse Monitoring

Continuous SPM “Shock Pulse Measurement” monitoring system of the compressor element & motor bearings. The sensors are connected to the Elektronikon® which is showing the individual vibration levels. Alarm and/or shutdown levels can be programmed during commissioning of the compressor. With this monitoring system, the compressor can run longer, since overhaul can be done when needed and preventive maintenance can be organized.



Witness and performance test

Factory visit and witnessing of the standard performance test of the compressor. The compressor is tested following the Atlas Copco standard test procedure in accordance to the ISO 1217: 2009, annex “C” and “E” (4th edition) for full transparency and peace of mind.



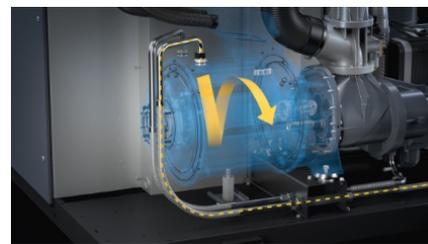
Foodgrade oil

The option “Roto-Foodgrade oil” allows you to operate the compressor in industries like packaging, pharmaceutical and food and beverage industry, where occasional contact is allowed in and around food processing areas.



Integrated dryer

In a GA Full Feature compressor the refrigeration dryer is fully integrated in the compressor unit. This “all-in-one” feature not only reduces the space requirement for installing the compressor but also provides savings on piping installation cost. Typical dew point of a refrigerant dryer is +3°C (37.4°F) at reference conditions.

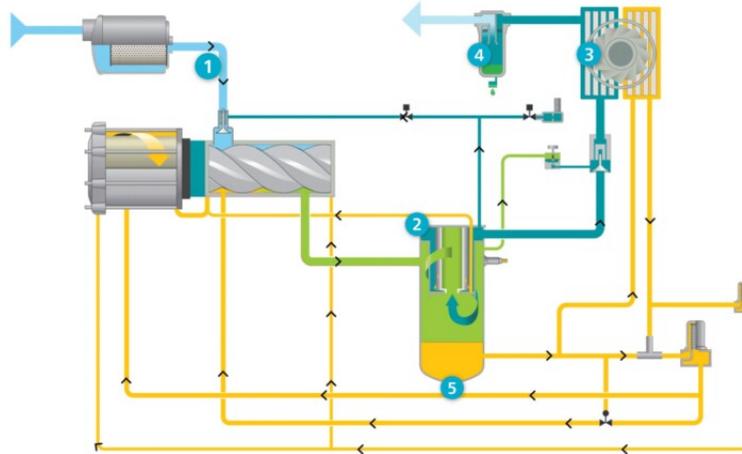


Motor thermal protection

Five (PT-1000) temperature sensors are installed in the main motor of which two sensors are monitoring the bearings and three sensors are monitoring the windings. The relevant temperatures are shown on the Elektronikon® display and alarms and shutdowns are programmed to protect the compressor motor.



Oil and air flows: your step-by-step guide



1. Filtration & compression

The air is drawn into the compressor through the inlet filter and is compressed in the oil injected rotary screw compression element via the air intake (load-unload) valve. Lubrication fluid is injected during the compression phase into the air. This not only reduces the wear of the elements but also cools them.

2. Air & oil separation

The compressed air/oil mixture passes through a non-return valve to the oil separator element to separate the oil from the air. The wet compressed air, represented by the dark blue/green, then passes through a minimum pressure valve and is cooled by an air-cooled aftercooler.

3. Cooling

Low noise axial cooling fans provide cooling air to the oil cooler and after cooler, ensuring satisfactory running temperatures as well as ventilating the compressor enclosure and electrical control panel.

4. Moisture separator

The condensed moisture is removed by a low pressure drop moisture separator and electronic condensate drain. This results in dry compressed air that can be used in your application.

5. Oil flow

The lubrication fluid moves through an air-cooled oil cooler, high-efficiency filter, and stop valve before entering the compression element, where it cools, seals, and lubricates the process. The advanced filter ensures cleaner lubricant for better performance. The MK5 controller adjusts VSD fan speed to quickly reach optimal temperature on startup and maintain cooling efficiency during low-load periods.



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).

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

GA 110-160 VSDs – 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)				Standard	Full Feature (3)		
		bar(e)		l/s	m ³ /min	kW	dB(A)	kg			
GA 110 VSDs – 8.5 bar	Minimum	5	5	104-407	6.2 – 24.4	110	77	2400	2800		
	Nominal	7	7	101-390	6.1 – 23.4						
	Maximum	8.5	8.3	100-356	6.0 – 21.4						
GA 110 VSDs – 10 bar	Minimum	6	6	102-405	6.1 – 24.3			132	77	2500	2950
	Nominal	9.5	9.5	97-332	5.8 – 19.5						
	Maximum	10	9.8	96-325							
GA 132 VSDs – 8.5 bar	Minimum	5	5	104-485	6.2 – 29.1	160	78			2550	3000
	Nominal	7	7	101-463	6.1 – 27.8						
	Maximum	8.5	8.3	100-427	6.0 – 25.6						
GA 132 VSDs – 10 bar	Minimum	6	6	102-402	6.1 – 24.1			160	78	2550	3000
	Nominal	9.5	9.5	97-396	5.8 – 23.8						
	Maximum	10	9.8	96-391	5.8 – 23.5						
GA 160 VSDs – 8.5 bar	Minimum	5	5	104-590	6.2 – 35.4	160	78			2550	3000
	Nominal	7	7	101-551	6.1 – 33.1						
	Maximum	8.5	8.3	100-511	6.0 – 30.7						
GA 160 VSDs – 10 bar	Minimum	6	6	102-492	6.1 – 29.5			160	78	2550	3000
	Nominal	9.5	9.5	97-480	5.8 – 28.8						
	Maximum	10	9.8	96-471	5.8 – 28.3						

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)				Standard	Full Feature (3)		
		psig		l/s	cfm	kW	dB(A)	lb			
GA 110 VSDs – 8.5 bar	Minimum	72	72	104-407	202-862	110	77	5291	6173		
	Nominal	101	101	101-390	214-826						
	Maximum	123	120	100-356	212-754						
GA 110 VSDs – 10 bar	Minimum	87	87	102-405	216-858			132	77	5512	6504
	Nominal	138	138	97-332	206-703						
	Maximum	145	142	96-325	203-689						
GA 132 VSDs – 8.5 bar	Minimum	72	72	104-485	220-1028	160	78			5622	6614
	Nominal	101	101	101-463	214-981						
	Maximum	123	120	100-427	212-905						
GA 132 VSDs – 10 bar	Minimum	87	87	102-402	216-852			160	78	5622	6614
	Nominal	138	138	97-396	206-839						
	Maximum	145	142	96-391	203-828						
GA 160 VSDs – 8.5 bar	Minimum	72	72	104-590	220-1250	160	78			5622	6614
	Nominal	101	101	101-551	214-1168						
	Maximum	123	120	100-511	212-1083						
GA 160 VSDs – 10 bar	Minimum	87	87	102-492	216-1042			160	78	5622	6614

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			
	Nominal	138	138	97-480	206-1017			
	Maximum	145	142	96-471	203-998			

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

Free Air Delivery (1) is measured at:

	Standard	Full Feature
8.5 bar version at	7 bar	7 bar
10 bar version at	9.5 bar	9.5 bar

Dimensions

Type	L		W		H	
	mm	inch	mm	inch	mm	inch
GA 110-160 VSDs	2500	98.5	1785	70.3	2020	79.5
GA 110-160 VSDs (FF)	2900	114.2	1785	70.3	2020	79.5

GA 90-160s – 60 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)				hp	dB(A)
	bar(e)		l/s	m ³ /min	kg			
GA 90s	5.5	5.3	316	19.0	125	76	3100	3450
	7.4	7.2	303	18.2				
	9.1	8.9	271	16.3				
	10.9	10.7	243	14.6				
GA 110s	5.5	5.3	425	25.5	150	77	2600	3050
	7.4	7.2	372	22.3				
	9.1	8.9	333	20.0				
	10.9	10.7	298	17.9				
GA 132s	5.5	5.3	505	30.3	175	77	2700	3150
	7.4	7.2	446	26.8				
	9.1	8.9	400	24.0				
	10.9	10.7	354	21.2				
GA 160s	7.4	7.2	529	31.7	215	78	2900	3250
	9.1	8.9	480	28.8				
	10.9	10.7	439	26.3				

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)				hp	dB(A)
	psig		l/s	cfm	lb			
GA 90s	80	77	316	670	125	76	3834	7606
	107	104	303	642				
	132	129	271	547				
	158	155	243	515				
GA 110s	80	77	425	901	150	77	5732	6724
	107	104	372	788				
	132	129	333	706				
	158	155	298	631				
GA 132s	80	77	505	1070	175	77	5952	6945
	107	104	446	945				
	132	129	400	848				
	158	155	354	750				
GA 160s	107	104	529	1121	215	78	6393	7165
	132	129	480	1017				
	158	155	439	930				

(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).

All compressors are tested, meet and exceed California Department Of Energy Title 20 requirements.

Free Air Delivery (1) is measured at:

	Standard	Full Feature
75 psi version at	73 psi	73 psi
100 psi version at	100 psi	100 psi
125 psi version at	125 psi	125 psi
150 psi version at	150 psi	150 psi

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

GA 110-160 VSDs – 60 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)				hp	dB(A)
		bar(e)		l/s	m ³ /min	kg			
GA 110 VSDs – 125 psi	Minimum	5	5	104-407	6.2 – 24.4	150	78	2400	2800
	Nominal	6.9	6.9	101-390	6.1 – 23.4				
	Maximum	9.1	8.9	97-343	5.8 – 20.6				
GA 110 VSDs – 150 psi	Minimum	6	6	102-405	6.1 – 24.3				
	Nominal	10.4	10.4	96-315	5.8 – 18.9				
	Maximum	10.9	10.7	95-309	5.7 – 18.5				
GA 132 VSDs – 125 psi	Minimum	5	5	104-485	6.2 – 29.1	175	78	2500	2950
	Nominal	6.9	6.9	101-466	6.1 – 28.0				
	Maximum	9.1	8.9	98-412	5.9 – 24.7				
GA 132 VSDs – 150 psi	Minimum	6	6	102-402	6.1 – 24.1				
	Nominal	10.4	10.4	96-378	5.8 – 22.7				
	Maximum	10.9	10.7	95-372	5.7 – 22.3				
GA 160 VSDs – 125 psi	Minimum	5	5	104-590	6.2 – 35.4	215	78	2550	3000
	Nominal	6.9	6.9	101-555	6.1 – 33.3				
	Maximum	9.1	8.9	98-495	5.9 – 29.7				
GA 160 VSDs – 150 psi	Minimum	6	6	102-492	6.1 – 29.5				
	Nominal	10.4	10.4	96-456	5.8 – 27.4				
	Maximum	10.9	10.7	95-449	5.7 – 26.9				

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)				hp	dB(A)
		psig		l/s	cfm	lb			
GA 110 VSDs – 125 psi	Minimum	72	72	104-407	220-862	150	78	5291	6173
	Nominal	100	100	101-390	214-826				
	Maximum	132	129	97-343	206-727				
GA 110 VSDs – 150 psi	Minimum	87	87	102-405	216-858				
	Nominal	151	151	96-315	203-667				
	Maximum	158	155	95-309	201-655				
GA 132 VSDs – 125 psi	Minimum	72	72	104-485	220-1028	175	78	5512	6504
	Nominal	100	100	101-466	214-987				
	Maximum	132	129	98-412	208-973				
GA 132 VSDs – 150 psi	Minimum	87	87	102-402	216-852				
	Nominal	151	151	96-378	203-801				
	Maximum	158	155	95-372	201-788				
GA 160 VSDs – 125 psi	Minimum	72	72	104-590	220-1250	215	78	5622	6614
	Nominal	100	100	101-555	214-1176				
	Maximum	132	129	98-495	208-1049				
GA 160 VSDs – 150	Minimum	87	87	102-492	216-1042				

Type		Maximum working pressure		Capacity FAD (1)		Installed motor power	Noise level (2)	Weight	
		Standard	Full Feature (3)	Standard / Full Feature (3)		hp	dB(A)	Standard	Full Feature (3)
		psig		l/s	cfm			lb	
psi	Nominal	151	151	96-456	203-966				
	Maximum	158	155	95-449	201-951				

(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).
All compressors are tested, meet and exceed California Department Of Energy Title 20 requirements.

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

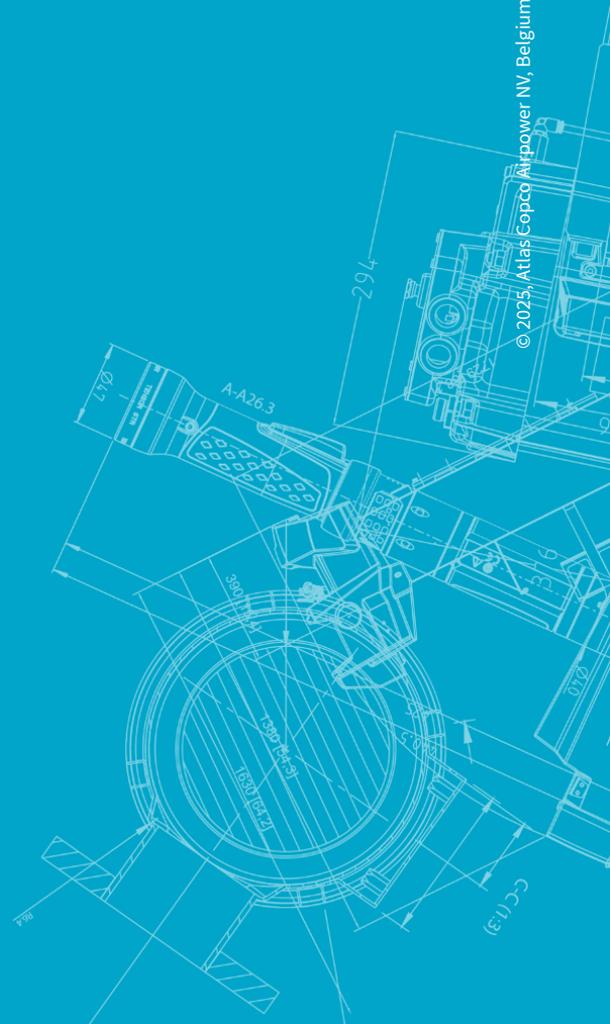
Type	L		W		H	
	mm	inch	mm	inch	mm	inch
GA 110-160 VSDs	2500	98.5	1785	70.3	2020	79.5
GA 110-160 VSDs (FF)	2900	114.2	1785	70.3	2020	79.5

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