

# Atlas Copco

## Oil-injected Rotary Screw Compressors




**GA 30+-90/GA 37-90 VSD®**  
30-90 kW/40-125 hp



جهان کمپرسور  
Jahan Compressor





## Total capability, total responsibility

Right at the heart of your business, Atlas Copco delivers quality compressed air for superior operational capacity. From compressed air generation to point of use, you can choose from our wide range of products to create a complete compressed air system tailored to your specific needs. All Atlas Copco products are engineered to integrate seamlessly, ensuring the highest level of reliability and energy efficiency. As a result, Atlas Copco can take full responsibility for your compressed air infrastructure with a guarantee of best-in-class quality. With a global presence in over 150 countries, we can provide an unrivalled service to maintain and continually improve your compressed air system performance.

Backed by 100 years at the forefront of compressed air, Atlas Copco products offer the finest quality and efficiency. Our goal is to be First in Mind—First in Choice®. That is why Atlas Copco's pursuit of innovation never ceases, driven by the dedication to meet and exceed your demands. Always working with you, we are committed to providing the customized air solution that is the driving force behind your business.

***Atlas Copco:  
Customized Quality Air Solutions through  
Innovation, Interaction and Commitment.***

First in Mind—First in Choice®

# Powerful efficiency



Integrated onto the production floor, Atlas Copco's GAWorkPlace Air System™ provides a dependable flow of compressed air directly to the point of use. No need for a separate compressor room or an elaborate and costly piping system. Built to perform in harsh environments with the highest efficiency, the GA keeps your production running smoothly and reliably.



## ASSURED RELIABILITY

The GA is designed, manufactured and tested in accordance with ISO 9001, ISO 14001 and ISO 1217, Ed. 3, Annex C. Ensuring a long and trouble free life at the lowest operating cost, the GA contains the latest generation of Atlas Copco's patented oil-injected screw element, powered by a maintenance free drive system. Engineered to provide reliability even in ambient temperatures up to 55°C/131°F, the GA takes reliability to a new level.



## REDUCED ENERGY COSTS

The cost of compressed air can represent over 40% of your total electrical costs. Atlas Copco wants to help you spend less. Our GA VSD (Variable Speed Drive) compressors can reduce energy costs by an average of 35% and overall compressor lifecycle costs (LCC) by an average of 22% by tuning compressor capacity to the air demand. The resulting energy savings have a substantial environmental impact, reflecting Atlas Copco's dedication to safeguarding a healthy future for the generations to come.



## AIR SYSTEM INTEGRATION

The GA WorkPlace Air System can be placed where you need it: the point of use. Its low noise operation and integrated air treatment equipment eliminate the need for a separate compressor room – reducing piping costs and internal system pressure drop. GA compressors are delivered ready for use, reducing installation costs to a minimum.





Built to last



#### THE LATEST ELEMENT TECHNOLOGY

Atlas Copco is committed to developing the most efficient screw element for each GA generation. Developed from extensive R&D by dedicated Atlas Copco engineers, the latest version of the patented oil-injected rotary screw element provides unrivalled efficiency and reliability.

**1 MAINTENANCE FREE DRIVE SYSTEM**

- The GA drive system is 100% maintenance free – eliminating the risks inherent to the greasing of conventional motor bearings.
- Patented technology allows the drive system to run in ambient temperatures up to 55°C/131°F\*.

**2 OIL FILTER**

- A high efficiency oil filter removes 300% smaller particles than a conventional filter, providing clean oil to extend the lifetime of all lubricated parts in the compressor.
- The oil filter rating of  $\beta_{12}=75$  sets a new industrial compressor standard that is fully compliant with ISO 16889.

**3 AFTERCOOLER WITH INTEGRATED WATER SEPARATOR**

- The GA's aftercooler with integrated water separator immediately removes 100% of condensate – avoiding the risk of corrosion in downstream equipment and improving air quality compared to conventional cyclone separators.

**4 ELECTRONIC WATER DRAINS**

- The GA's no loss drains eliminate the waste of compressed air that conventional drains create.
- The drains communicate with the compressor controller to ensure the constant removal of condensate.
- A large diameter drain port removes the potential for clogging, providing trouble free operation.

**5 ELECTRICAL CUBICLE COOLING BOOSTER**

- The main cooling fan cools the electrical cubicle, ensuring operating temperatures are strictly regulated even in ambient temperatures up to 55°C/131°F\*.

**6 OIL SEPARATOR**

- Innovative filter material removes oil particles from the compressed air while minimizing pressure drop. This results in optimal air quality at the highest efficiency.

**7 INLET VALVE**

- The inlet valve is sized for maximum flow to eliminate any inefficient pressure drops.
- The valve is operated through vacuum and air pressure to offer superior reliability compared to spring operated inlet valves.

**8 INLET FILTER**

- A heavy duty air intake filter protects the compressor components by removing 99.9% of dirt particles down to 3 microns.

\* Standard up to 46°C/115°F, optional high ambient version up to 55°C/131°F

GA 30\*-37-45



Both the aftercooler with integrated water separator **3** and the electrical cubicle cooling booster **5** are located at the back of the compressor.

# Protecting your production

Untreated compressed air contains moisture, aerosols and dirt particles that can damage your air system and contaminate your end product. Resulting maintenance costs can far exceed air treatment costs. We believe in effective prevention.



## INCREASE YOUR PRODUCTION RELIABILITY

Low quality air heightens the risk of corrosion in your system, which can lower the life span of your air tools and production equipment. The GA's filtration process produces clean air that enhances your system's reliability, avoiding costly downtime and production delays.



## SAFEGUARD YOUR PRODUCT QUALITY

Compressed air coming into contact with your final products should not affect their quality. The GA provides the clean, dry air that will protect your product's reputation in the marketplace.



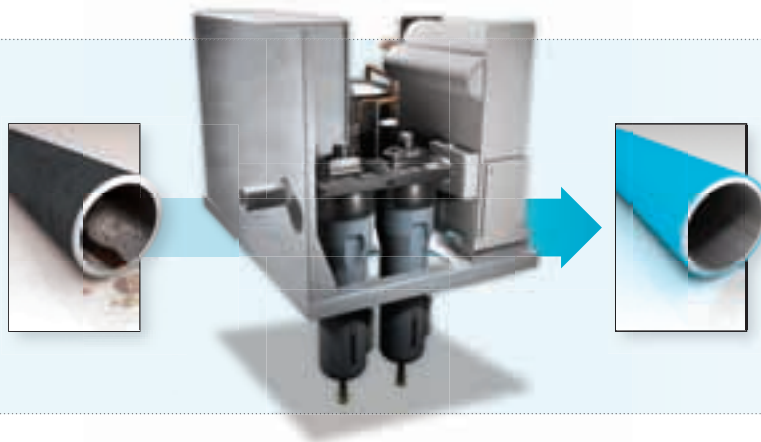
## REDUCE YOUR ENERGY COSTS

Clean, treated air reduces the risk of corrosion and leaks in your compressed air system. A 3 mm leak could easily add up to €1800 to your energy bill annually.



## PROTECT THE ENVIRONMENT

With leaks and energy waste minimized and the unsafe disposal of untreated condensate eliminated, you can safeguard the environment and comply with stringent international regulations.



## INTEGRATED PURITY

The filters and integrated refrigerant-type air dryer (IFD) efficiently remove moisture, aerosols and dirt particles to protect your investment. This quality air expands the life of equipment, increasing efficiency and ensuring quality in your final product.

CONFIGURE YOUR GA VSD FOR THE AIR QUALITY YOU NEED	ISO QUALITY CLASS	DIRT PARTICLE SIZE	WATER PRESSURE DEW POINT	OIL CONCENTRATION
GA WorkPlace	3.-.4	3 microns	-	3 ppm
GA WorkPlace FF with IFD	3.4.4	3 microns	+3°C, 37°F	3 ppm
GA WorkPlace FF with IFD & Class 2 integrated filter	2.4.2	1 micron	+3°C, 37°F	0.1 ppm
GA WorkPlace FF with IFD & Class 1 integrated filters	1.4.1	0.01 microns	+3°C, 37°F	0.01 ppm

# WorkPlace: complete versatility, total capability

With its compact footprint, low noise operation and integration of air and condensate treatment equipment, the GA<sup>+</sup> offers complete versatility for your production. The GA<sup>+</sup>'s integrated design allows the compressor to be placed on the production floor, reducing external piping costs and minimizing pressure drop across the system. This increased efficiency can create strong energy savings for your business.

## LOWERED INSTALLATION COSTS

- The GA<sup>+</sup> can operate close to the point of use – eliminating the need for a dedicated compressor room.
- The GA<sup>+</sup> is delivered ready for use – minimizing production downtime and reducing installation costs.
- With filtration equipment integrated, the GA<sup>+</sup> reduces the need for costly external piping.



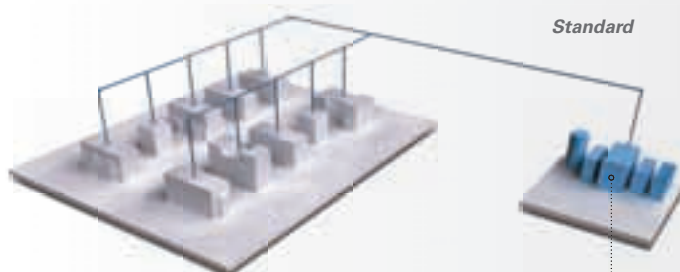
*A conventional compressor, with external filtration equipment and high noise operation, has to be placed away from the production area. This lack of integration can raise installation costs.*



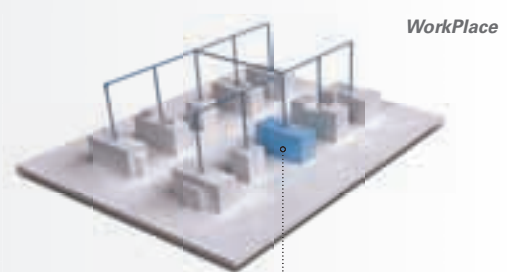
*The GA<sup>+</sup> WorkPlace, with its low noise operation and integrated condensate and air treatment equipment, can be placed directly at your point of use. This integration saves space and reduces piping costs.*

## REDUCED ENERGY AND MAINTENANCE COSTS

- With less external piping, the GA<sup>+</sup> minimizes pressure drop across the system which can reduce energy costs.
- The filtration system produces clean air to prevent network corrosion – minimizing energy, repair and maintenance costs.
- The GA<sup>+</sup> operates at the lowest possible system pressure to reduce energy costs thanks to the Elektronikon<sup>®</sup> advanced monitoring system.



*Placed away from the production area, external piping is increased which can create higher pressure drop across the system.*



*The GA<sup>+</sup>'s VSD integration reduces external pipework. This minimizes pressure drop from the compressor to the production area and reduces energy costs.*



# Total control, assured efficiency

The Elektronikon operating system provides control and monitoring to increase your compressor's efficiency and reliability. Easily expandable with extra sensors, digital inputs and internet communication functions, the Elektronikon can be adapted to your specific needs – offering simple, central monitoring and control of up to four compressors. For optimal ease of use,

the display can be set to 27 different languages. To maximize energy efficiency, the Elektronikon controls the main drive motor and regulates system pressure within a predefined and narrow pressure band. With a simple push of a button, you can remote start and stop, load and unload the compressor.

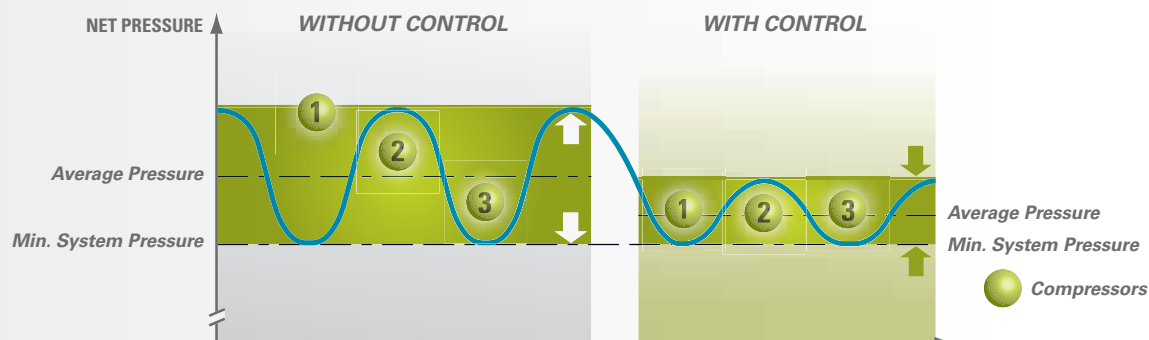
# 1

## ES CENTRAL CONTROL

ES manages up to four compressors simultaneously. The result is a substantial reduction in system pressure and energy consumption, in addition to minimal compressed air leakage and a more stable pressure across the network.



## SAVING ENERGY, DRIVING EFFICIENCY







## 2

### DUAL PRESSURE SET POINT

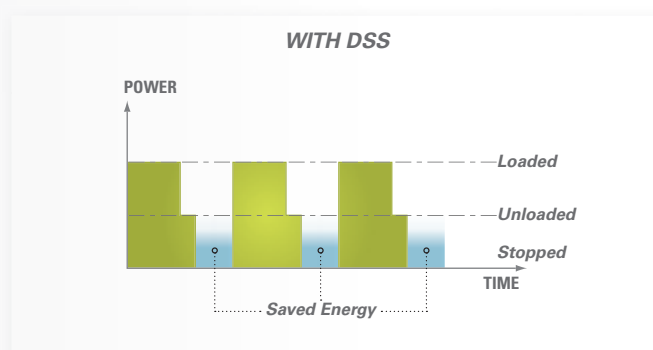
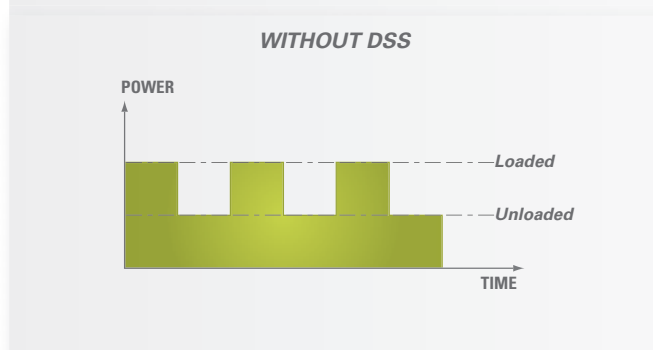
The production process creates fluctuating levels of demand which can create energy waste in low use periods. The Elektronikon can manually or automatically create two different system pressure bands to optimize energy use and reduce costs at low use times.

## 3

### DELAYED SECOND STOP

The sophisticated Delayed Second Stop (DSS) runs the drive motor only when needed. Because the Elektronikon maintains the desired system

pressure while minimizing the drive motor run time, energy consumption is kept at a minimum.



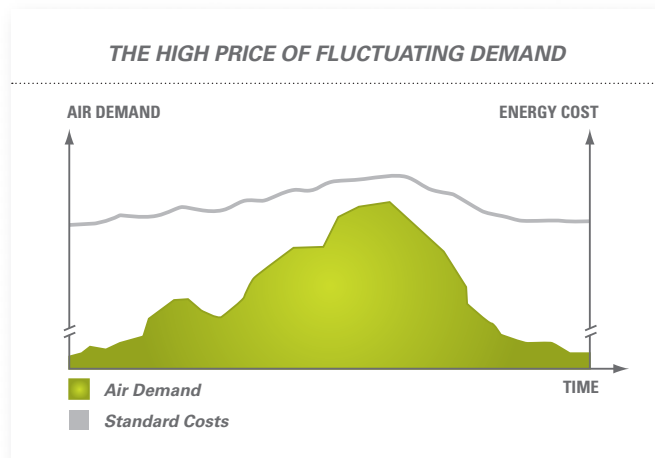
## 4

### SAVER CYCLE

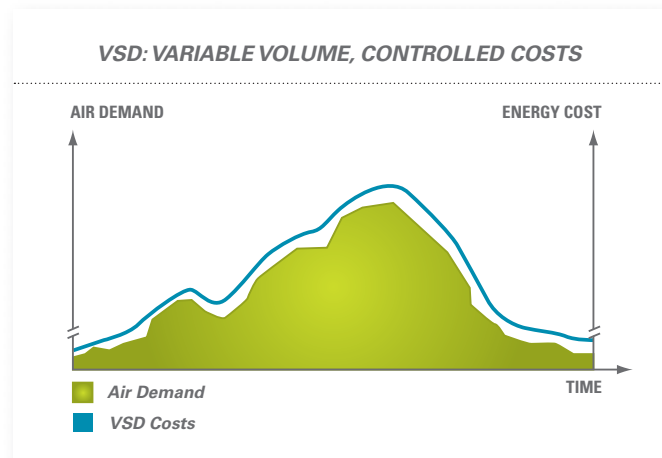
Saver cycle technology reduces the energy consumption of the integrated refrigerant dryers in light load applications. Using an ambient sensor to monitor the required dew point suppression, the Elektronikon starts and stops the dryer when the compressor has stopped – minimizing energy use and protecting the air system from corrosion.

# Driving down energy costs

Energy can represent over 70% of a compressor's lifecycle costs (LCC). Generating compressed air can account for more than 40% of a plant's total electricity bill. Most production environments have a fluctuating air demand depending on the time of day, week, or even months per year. With Atlas Copco's VSD technology mirroring compressed air requirements, fluctuating demand no longer equals high energy costs.

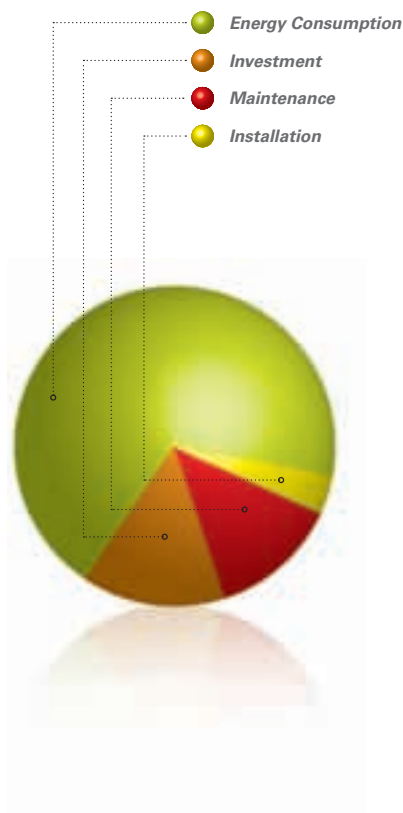


Traditional compressors working with a full load, no load control operate between two set pressure points. When maximum pressure is reached the compressor goes off load. During periods of medium to low air demand, the no load power consumption can be excessive – wasting large amounts of energy.

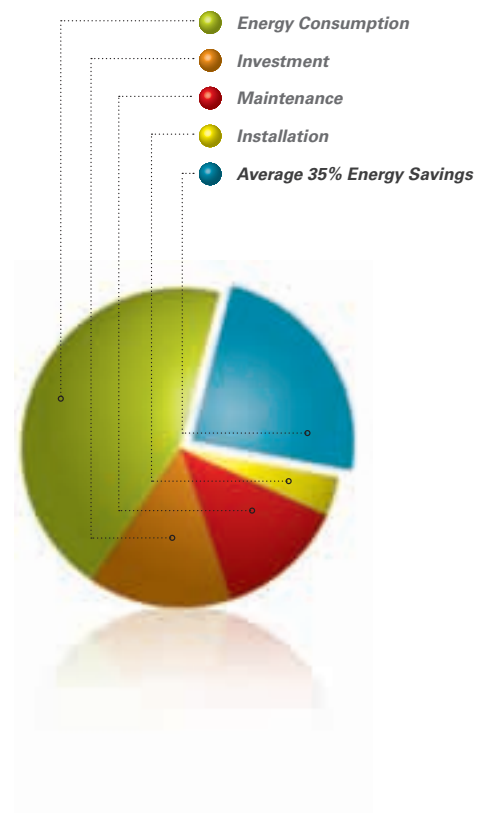


Because there is no unnecessary power generated, the GA VSD can reduce energy costs by 35% or more. Lifecycle costs (LCC) of the compressor can be reduced by an average of 22%. In general, the extra cost of a VSD compressor compared to a fixed speed one can be earned back after just one to two years.

**LCC OF A STANDARD COMPRESSOR**



**LCC OF A VSD COMPRESSOR**



# VSD: Variable volume, controlled costs

VSD (Variable Speed Drive) technology mirrors air usage – automatically adjusting the motor speed depending on demand. Lowered system pressure minimizes energy use across the production to reduce energy costs. With VSD technology, Atlas Copco has made major energy cost savings a reality. Operating at lowest possible energy use, the GA VSD helps to protect the environment for future generations.

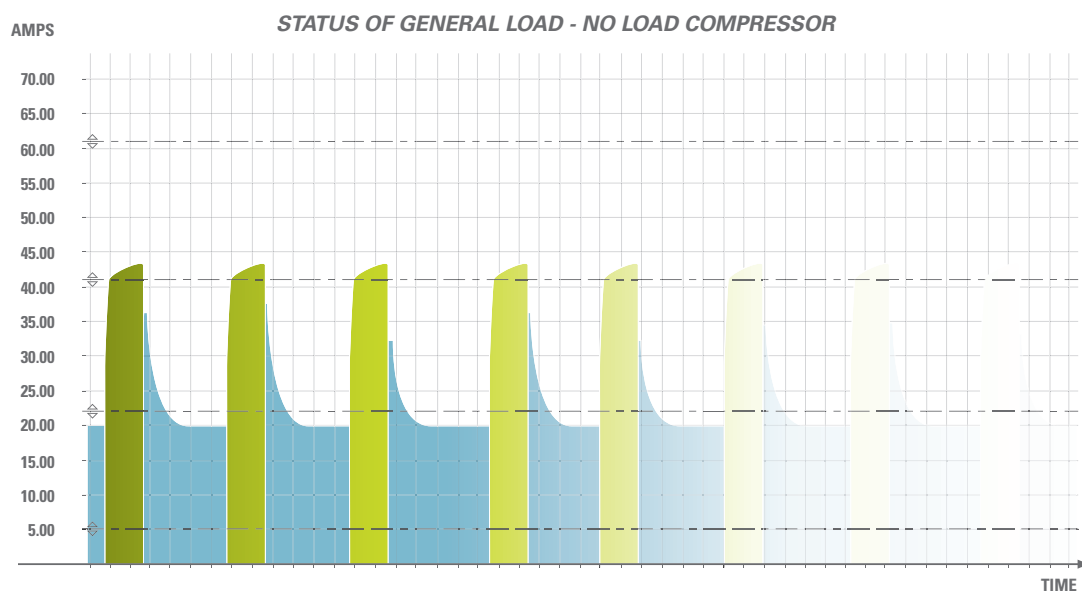
## THE GA VSD REDUCES ENERGY COSTS BY:

- Eliminating the inefficient transition period from full to no load power.
- Avoiding excessive off load power consumption.
- Maintaining the net pressure band to within 0.10 bar, 1.5 psi.
- Reducing overall average working pressure.
- Minimizing system leakage due to a lower system pressure.
- Increasing flexibility with soft starting gradual motor ramp-up to avoid electricity surges.
- Offering flexible pressure selection from 4 to 13 bar with electronic gearing to ensure lowered electricity costs.

## HOW MUCH CAN YOU SAVE?

Using innovative real-time measuring equipment and sophisticated analysis software, Atlas Copco engineers can help you map the load/air demand profile of your current compressor installation and demonstrate the potential energy savings using Atlas Copco's

VSD compressors. This unique service allows you to obtain full control of your compressed air system and make conscious future investment decisions.



# Peace of mind



With the GA, Atlas Copco does not just offer the most reliable and efficient compressors. From filter kits to a complete piping installation, Atlas Copco can take responsibility of your entire compressed air system to provide you with best-in-class air. Choose from a wide range of Atlas Copco after sales products and services that will have your GA performing at its best for years to come. Qualified Atlas Copco support is available in over 150 countries.

*Providing easy access to all components, the GA is built to facilitate maintenance.*



## GENUINE PARTS & LUBRICANTS

Don't compromise your investment in quality by buying parts that are not manufactured according to Atlas Copco's standards of excellence. Only Atlas Copco genuine parts can deliver our well-known quality, durability, and low energy and oil consumption. Atlas Copco lubricants ensure that your GA continues to run smoothly.

## SERVICEPLAN

Choose a Total Responsibility, Preventative Maintenance or Inspection Plan to get the scheduled maintenance to keep your compressor operating trouble free. Rest assured that Atlas Copco can offer its 24/7 backup to keep your production running.

## AIRMONITOR

Monitor the performance of your GA at any time from your desk, or let your local Atlas Copco center do it for you. With AIRmonitor™, you check your compressed air system online, immediately receiving warning indications and even remotely taking preventive action to avoid downtime.

## AIRNET

Expect the highest efficiency from your GA, and the piping built around it. AIRnet™ safely delivers high-quality compressed air from point of generation to point of use. Separate workplaces are effortlessly connected. Fixed to walls or ceilings, AIRnet's range of fittings lets you custom-build a compressed air system specific to your production needs.





# Optimize your system

The GA can be tailored to your needs. From an integrated dryer and filter to rain protection, all optional parts are available to further optimize the GA's performance, or to simply tailor it to your specific production environment.

		GA 30*-90	GA 37-90 VSD
AIR TREATMENT	Integrated filter kit class 1*	•	•
	Integrated filter kit class 2*	•	•
	Dryer bypass*	•	•
CONDENSATE TREATMENT	Integrated oil/water separator (OSD)	•	•
PROTECTION	Oil retaining frame	•	•
	Motor space heater	•	•
	Motor space heater + thermistors	•	•
	Water shut-off valve**	•	•
	Phase sequence relay	•	Standard
	Tropical thermostat	•	•
	Freeze protection	•	•
	NEMA 4 cubicle	•	N/A
	NEMA 4X cubicle	•	N/A
PUBLIC WORKS	Rain protection	•	•
	Main power isolator switch	•	•
	Lifting device	•	•
COMMUNICATION	Relays for ES 100 sequence selector	•	N/A
OILS	Synthetic PAO oil	•	•
	Food grade oil	•	•
	Roto Extreme oil	•	•
	Roto – Xtend duty oil	•	•
GENERAL OPTIONS	Energy recovery	•	•
	Special canopy color	•	•
	Compressor duct power fan	•	•
	Modulating control	•	N/A
	AIRmonitor	•	•
	Marine approvals	•	•
	High ambient temperature version (HAV 55°C, 131°F)***	•	•
	High resolution graphical display for Elektronikon****	•	•
	IT ancillaries	N/A	•

\* FF units only. \*\* Water-cooled units. \*\*\* FF units max. 50°C, 122°F. \*\*\*\* Required for Chinese, Korean and Japanese characters.

Technical specifications 50 Hz versions

COMPRESSOR TYPE	Max. working pressure WorkPlace			Capacity FAD*			Installed motor power		Noise level**	Weight (kg/lbs)	
	bar(e)	psig		l/s	m³/min	cfm	kW	hp	dB(A)	WorkPlace	WorkPlace Full Feature
50 Hz VERSION											
GA 30+	7.5	7.5	109	96	5.8	203	30	40	65	780/1720	855/1885
	8	8	116	93	5.6	197	30	40	65	780/1720	855/1885
	10	10	145	80	4.8	170	30	40	65	780/1720	855/1885
	13	13	189	65	3.9	138	30	40	65	780/1720	855/1885
GA 37	7.5	7.5	109	107	6.4	227	37	50	69	787/1735	862/1900
	8	8	116	105	6.3	222	37	50	69	787/1735	862/1900
	10	10	145	93	5.6	197	37	50	69	787/1735	862/1900
	13	13	189	75	4.5	159	37	50	69	787/1735	862/1900
GA 37+	7.5	7.5	109	118	7.1	250	37	50	65	1000/2205	1120/2469
	8	8	116	115	6.9	244	37	50	65	1000/2205	1120/2469
	10	10	145	99	5.9	210	37	50	65	1000/2205	1120/2469
	13	13	189	81	4.9	172	37	50	65	1000/2205	1120/2469
GA 45	7.5	7.5	109	129	7.7	273	45	60	72	821/1810	896/1975
	8	8	116	121	7.3	256	45	60	72	821/1810	896/1975
	10	10	145	109	6.5	231	45	60	72	821/1810	896/1975
	13	13	189	91	5.5	193	45	60	72	821/1810	896/1975
GA 45+	7.5	7.5	109	143	8.6	303	45	60	66	1030/2271	1150/2535
	8	8	116	134	8.0	284	45	60	66	1030/2271	1150/2535
	10	10	145	121	7.3	256	45	60	66	1030/2271	1150/2535
	13	13	189	101	6.1	214	45	60	66	1030/2271	1150/2535
GA 55	7.5	7.5	109	165	9.9	350	55	75	69	1145/2524	1305/2877
	8	8	116	155	9.3	328	55	75	69	1145/2524	1305/2877
	10	10	145	144	8.6	305	55	75	69	1145/2524	1305/2877
	13	13	189	124	7.4	263	55	75	69	1145/2524	1305/2877
GA 55+	7.5	7.5	109	177	10.6	375	55	75	66	1430/3152	1580/3483
	8	8	116	168	10.1	356	55	75	66	1430/3152	1580/3483
	10	10	145	145	8.7	307	55	75	66	1430/3152	1580/3483
GA 75	7.5	7.5	109	218	13.1	462	75	100	73	1500/3307	1650/3638
	8	8	116	205	12.3	434	75	100	73	1500/3307	1650/3638
	10	10	145	184	11.0	390	75	100	73	1500/3307	1650/3638
	13	13	189	162	9.7	343	75	100	73	1500/3307	1650/3638
GA 75+	7.5	7.5	109	245	14.7	519	75	100	68	1530/3373	1680/3703
	8	8	116	230	13.8	487	75	100	68	1530/3373	1680/3703
	10	10	145	204	12.2	432	75	100	68	1530/3373	1680/3703
	13	13	189	171	10.2	362	75	100	68	1530/3373	1680/3703
GA 90	7.5	7.5	109	270	16.2	572	90	125	73	1580/3483	1730/3813
	8	8	116	261	15.6	553	90	125	73	1580/3483	1730/3813
	10	10	145	235	14.1	498	90	125	73	1580/3483	1730/3813
	13	13	189	200	12.0	424	90	125	73	1580/3483	1730/3813

## Technical specifications 60 Hz versions

COMPRESSOR TYPE	Max. working pressure WorkPlace		Capacity FAD*			Installed motor power		Noise level**	Weight (kg/lbs)	
	bar(e)	psig	l/s	m <sup>3</sup> /min	cfm	kW	hp	dB(A)	WorkPlace	WorkPlace Full Feature
60 Hz VERSION										
GA 30+	100	7.4	107	96	5.8	203	30	40	65	780/1720
	125	9.1	132	86	5.2	182	30	40	65	780/1720
	150	10.8	157	77	4.6	161	30	40	65	780/1720
	175	12.5	181	68	4.1	144	30	40	65	780/1720
GA 37	100	7.4	107	110	6.6	233	37	50	69	787/1735
	125	9.1	132	100	6	212	37	50	69	787/1735
	150	10.8	157	93	5.6	197	37	50	69	787/1735
	175	12.5	181	80	4.8	170	37	50	69	787/1735
GA 37+	100	7.4	107	117	7.0	248	37	50	65	1000/2205
	125	9.1	132	107	6.4	227	37	50	65	1000/2205
	150	10.8	157	96	5.8	203	37	50	65	1000/2205
	175	12.5	181	87	5.2	184	37	50	65	1000/2205
GA 45	7.5	7.4	107	129	7.7	273	45	60	72	821/1810
	8	9.1	132	116	7	246	45	60	72	821/1810
	10	10.8	157	110	6.6	233	45	60	72	821/1810
	13	12.5	181	95	5.7	201	45	60	72	821/1810
GA 45+	100	7.4	107	143	8.6	303	45	60	66	1030/2271
	125	9.1	132	127	7.6	269	45	60	66	1030/2271
	150	10.8	157	115	6.9	244	45	60	66	1030/2271
	175	12.5	181	105	6.3	222	45	60	66	1030/2271
GA 55	100	7.4	107	170	10.2	360	55	75	69	1145/2524
	125	9.1	132	151	9.1	320	55	75	69	1145/2524
	150	10.8	157	137	8.2	290	55	75	69	1145/2524
	175	12.5	181	126	7.6	267	55	75	69	1145/2524
GA 55+	100	7.4	107	176	10.6	373	55	75	67	1430/3152
	125	9.1	132	157	9.4	333	55	75	67	1430/3152
	150	10.8	157	136	8.2	288	55	75	67	1430/3152
GA 75	100	7.4	107	219	13.1	464	75	100	73	1500/3307
	125	9.1	132	195	11.7	413	75	100	73	1500/3307
	150	10.8	157	174	10.4	369	75	100	73	1500/3307
	175	12.5	181	169	10.1	358	75	100	73	1500/3307
GA 75+	100	7.4	107	239	14.3	506	75	100	69	1530/3373
	125	9.1	132	213	12.8	451	75	100	69	1530/3373
	150	10.8	157	193	11.6	409	75	100	69	1530/3373
	175	12.5	181	176	10.6	373	75	100	69	1530/3373
GA 90	100	7.4	107	273	16.4	578	90	125	74	1580/3483
	125	9.1	132	252	15.1	534	90	125	74	1580/3483
	150	10.8	157	230	13.8	487	90	125	74	1580/3483
	175	12.5	181	204	12.2	432	90	125	74	1580/3483

\* Unit performance measured according to ISO 1217, Ed. 3, Annex C-1996.

### Reference conditions:

- Absolute inlet pressure 1 bar (14.5 psi)
- Intake air temperature 20°C, 68°F

### FAD is measured at the following working pressures:

- 7.5 bar versions at 7 bar
- 8 bar versions at 7.5 bar
- 10 bar versions at 9.5 bar
- 13 bar versions at 12.5 bar

\*\* Mean noise level measured according to ISO 2151/Pneurop/Cagi PN8NTC2 test code; tolerance 3 dB(A).

Pressure dew point of integrated refrigerant dryer at reference conditions: 2°C to 3°C, 36°F to 37°F.

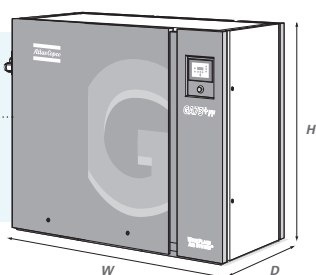
# Technical specifications GA 37-45-55-75-90 VSD

COMPRESSOR TYPE	Max. operating pressure WorkPlace		Capacity FAD*			Installed motor power		Noise level** (50/60 Hz)	Weight (kg/lbs)	
	bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	WorkPlace	WorkPlace Full Feature
<b>50/60 Hz VERSION</b>										
GA 37 VSD	4	58	26-122	1.5-7.3	54-259	37	50	67/68	1000/2205	1120/2469
	7	102	25-121	1.5-7.3	54-256	37	50	67/68	1000/2205	1120/2469
	10	145	24-104	1.4-6.2	52-220	37	50	67/68	1000/2205	1120/2469
	13	188	23-84	1.3-5.0	51-178	37	50	67/68	1000/2205	1120/2469
GA 45 VSD	4	58	26-144	1.5-8.7	54-307	45	60	69/72	1030/2447	1150/2712
	7	102	25-143	1.5-8.7	54-303	45	60	69/72	1030/2447	1150/2712
	10	145	24-125	1.4-7.5	52-265	45	60	69/72	1030/2447	1150/2712
	13	188	23-99	1.3-5.9	51-210	45	60	69/72	1030/2447	1150/2712
GA 55 VSD	4	58	26-172	1.5-10.3	54-365	55	75	69/72	1145/2524	1305/2877
	7	102	25-172	1.5-10.3	54-363	55	75	69/72	1145/2524	1305/2877
	10	145	24-152	1.4-9.1	52-322	55	75	69/72	1145/2524	1305/2877
	13	188	44-128	2.6-7.7	93-271	55	75	69/72	1145/2524	1305/2877
GA 75 VSD	4	58	40-247	2.4-14.8	85-523	75	100	69/70	1680/3703	1830/4034
	7	102	38-245	2.3-14.7	81-519	75	100	69/70	1680/3703	1830/4034
	10	145	36-201	2.2-12.1	76-426	75	100	69/70	1680/3703	1830/4034
	13	188	33-171	2.0-10.3	70-362	75	100	69/70	1680/3703	1830/4034
GA 90 VSD	4	58	41-286	2.5-17.2	87-606	90	125	73/74	1730/3813	1880/4145
	7	102	38-285	2.3-17.1	81-604	90	125	73/74	1730/3813	1880/4145
	10	145	36-241	2.2-14.5	76-511	90	125	73/74	1730/3813	1880/4145
	13	188	32-200	1.9-12.0	68-424	90	125	73/74	1730/3813	1880/4145

Maximum working pressure for VSD machines: 13 bar(e) (188 psig)

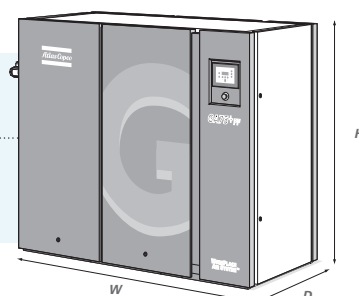
**GA 30\*-37-45**

W: 1395 mm, 54.8"  
D: 865 mm, 34"  
H: 1625 mm, 63.9"



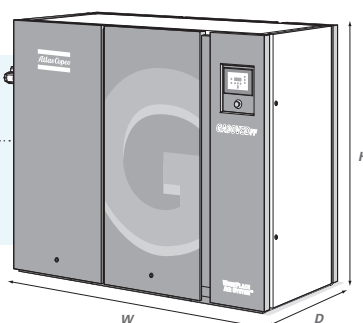
**GA 37\*-45\*-55-75 and GA 37-45-55 VSD**

W: 2040 mm, 80.3"  
D: 970 mm, 38.2"  
H: 1802 mm, 70.9"



**GA 55\*-75\*-90 and GA 75-90 VSD**

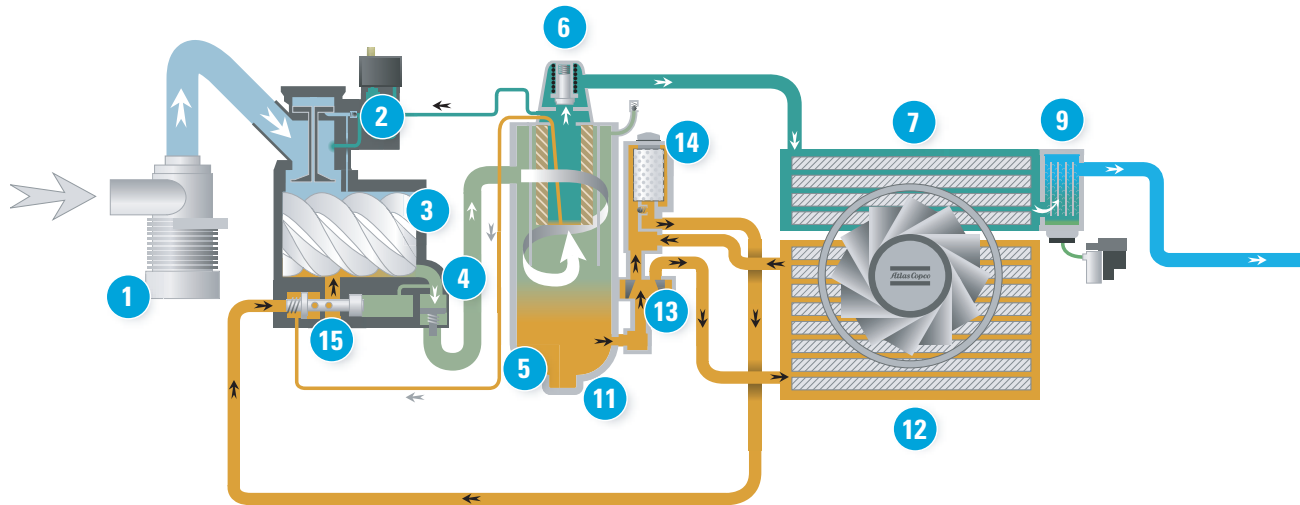
W: 2290 mm, 90"  
D: 1080 mm, 42.5"  
H: 1960 mm, 77"



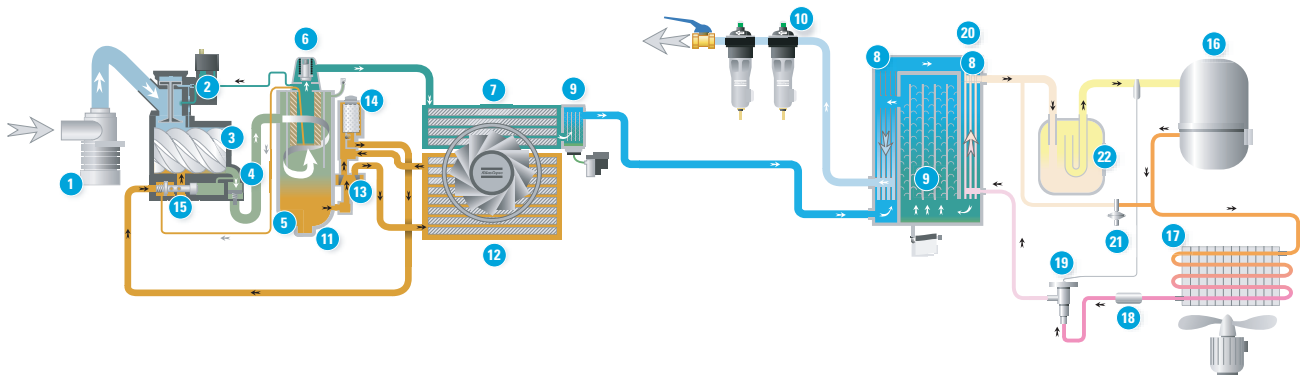


## FLOW CHARTS

### Standard



### Full Feature version (FF)



- Intake air
- Air/oil mixture
- Oil
- Compressed air without free water
- Wet compressed air
- Dry compressed air
- Water
- Refrigerant gas/liquid mixture
- High pressure, hot refrigerant gas
- Low pressure, cool refrigerant gas
- High pressure refrigerant liquid
- Low pressure refrigerant liquid

#### AIR FLOW

1. Air intake filter
2. Air intake valve
3. Compression element
4. Non return valve
5. Air/oil separator vessel
6. Minimum pressure valve
7. After-cooler
8. Air-air heat exchanger
9. Water separator with drain
10. DD/PD filters (optional)

#### OIL FLOW

11. Oil
12. Oil cooler
13. Thermostatic bypass valve
14. Oil filter
15. Oil stop valve

#### REFRIGERANT FLOW

16. Refrigerant compressor
17. Condenser
18. Liquid refrigerant dryer/filter
19. Thermostatic expansion valve
20. Evaporator
21. Hot gas bypass valve
22. Accumulator



In order to be First in Mind—First in Choice® for all your compressed air needs, Atlas Copco delivers the products and services that help increase your business' efficiency and profitability.

Atlas Copco's pursuit of innovation never ceases, driven by your need for reliability and efficiency. Always working with you, we are committed to providing you the customized quality air solution that is the driving force behind your business.



**Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.**



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