Oil-injected rotary screw compressors

GA 15-45 VSD (15-45 kW/20-60 hp)

Level up your experience at
atlascopco.com

Innovating for a sustainable future

At Atlas Copco, we have always looked ahead. Which products and services will make our customers more successful? Your future drives the Atlas Copco team every day. It is the reason why we devote so much time and so many resources to innovation. If there are technologies that will advance your productivity, we will find them. That is what we have been doing for more than 150 years now, setting new standards in compressed air reliability, efficiency, connectivity, and sustainability.

It's that last principle that now comes first. Sustainability is no longer something we should strive for, but something we must achieve. Productivity and growth will have to be built on sustainability. Atlas Copco – our products, our services, and our people – will help you get there, as we always have.

The technology that drives energy efficiency

Dedicated inverter

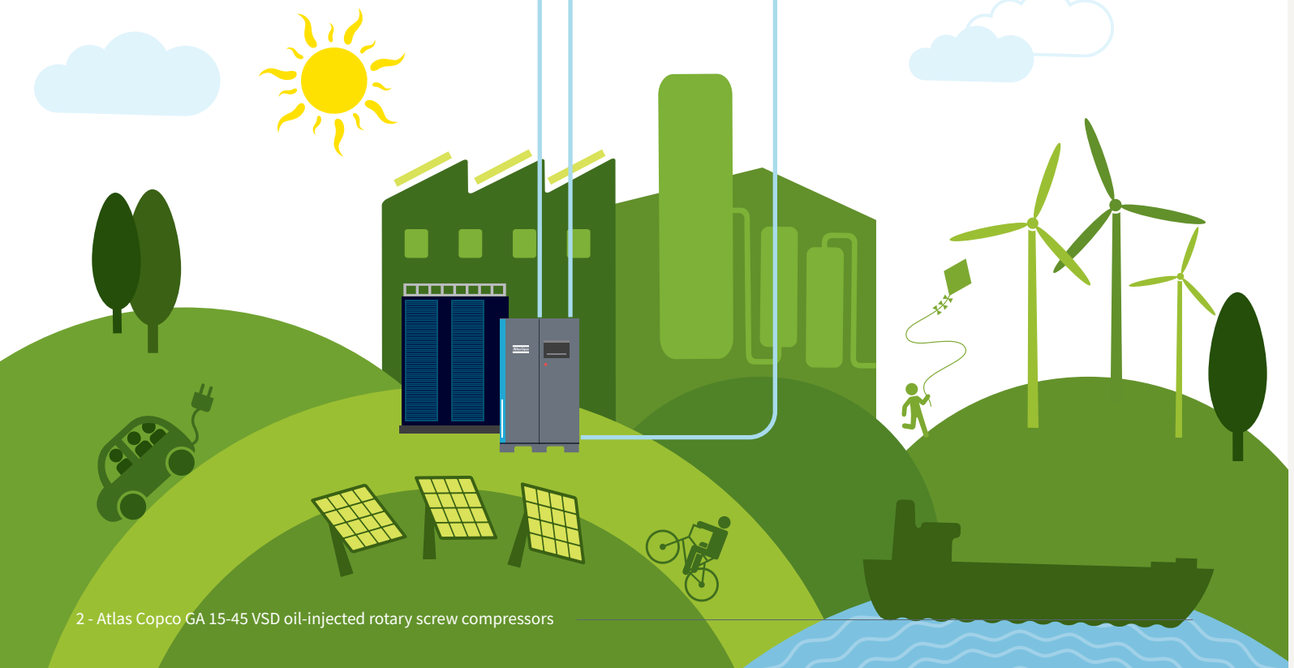
The premium inverter ensures the compressor's motor speed matches your air demand, generating energy savings of up to 35%.

iPM motor

The Interior Permanent Magnet motor was designed to give you IE5 energy efficiency and cost savings.

Elektronikon® controller

The state-of-the-art Elektronikon Touch offers control and remote monitoring features that allow you to increase your compressor's efficiency.



A new era in compressor performance and efficiency

Atlas Copco's GA VSD combines reliability, low cost of ownership and sustainability in a breakthrough space-saving design. Now available in 15-45 kW sizes, it offers Variable Speed Drive technology as standard, powered by an IP66 protected iPM (Interior Permanent Magnet) motor and in-house designed element. As a result, the GA VSD reduces your energy consumption by up to 35%, while operating reliably in the harshest conditions.

Energy efficiency

- VSD technology follows your air demand by automatically adjusting the motor speed to give you energy savings of up to 35%.
- Lowered system pressure minimizes energy use.
- Direct drive technology without gears or belt transmission losses optimizes efficiency.
- The iPM motor equals IE5 efficiency standards.

Reliable performance

- Atlas Copco's proprietary compression element sets the industry standard in compressor performance and reliability.
- The completely enclosed frequency drive and IP-66 protected oil-cooled motor ensure dependable operation, even in tough environments.
- The GA VSD is built with premium components designed to work together optimally.

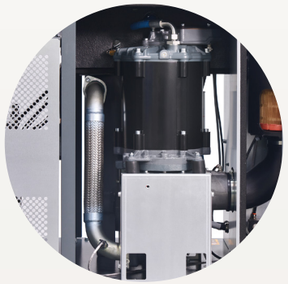
Smart control

- The dedicated inverter was designed specifically for use in air compressors.
- The Elektronikon Touch controller is included as standard, giving you advanced control, monitoring and optimization options.
- Optional **SMART**LINK connectivity enables real-time, remote monitoring, data gathering, alerts, and system improvement.
- EQ central compressor control allows you to manage multiple compressors in one system to optimize performance, efficiency, and maintenance.

Go vertical, save space

Atlas Copco has turned the compressed air industry on its head by redesigning the conventional layout of a typical air compressor. Instead of the normal, bulky horizontal design, the new GA VSD has an upright, vertical layout with a small footprint. This saves valuable floor space, eases maintenance access, and reduces your total cost of ownership.

Engineered for premium iPM performance



1 New drive train

- Designed according to IP66.
- New high-efficiency element.
- iPM motor equals IE5 standards.
- Oil-cooled for maximum efficiency.
- No gears or belts means no transmission losses.

2 Dedicated inverter

The advanced inverter's smart control ensures best-in-class energy efficiency and high reliability with STO protection.

3 Elektronikon Touch controller

- High-tech controller with warning indications, compressor shutdown and maintenance scheduling.
- Easy to use and designed to perform in the toughest conditions.
- Optional **SMART**LINK remote monitoring maximizes air system performance and energy savings.

4 Efficient cooling

- Separate oil/air cooler.
- Easy access for maintenance.

5 Cooling fan

Optimized, application-specific design ensures low noise and high efficiency.

6 Integrated dryer

Optional integrated refrigerant dryer ensures air quality and prevents rust and corrosion in your compressed air network. Its plug-and-play design eliminates cost of installing a separate dryer.

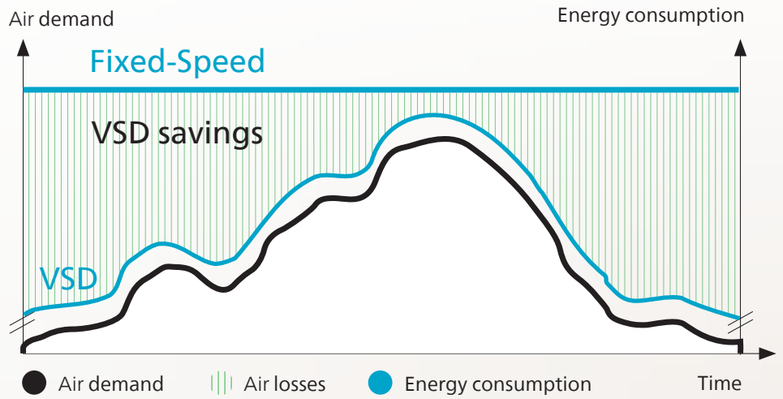
For the GA 15-22 VSD, a compact, fully integrated tank-mounted version is also available.

VSD: up to 35% energy savings

Energy matters

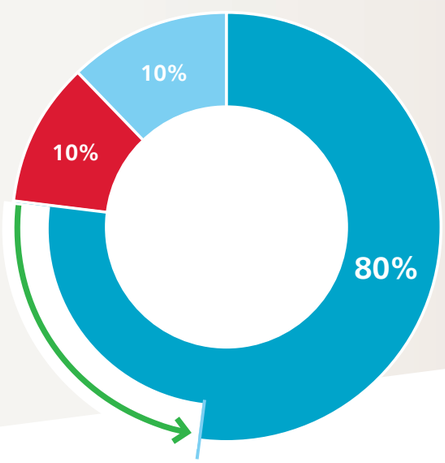
The true cost of owning a compressor – both financially and in terms of sustainability – lies in its energy use. After all, energy takes up 80% of the lifetime cost of a compressor. That makes efficiency the number one requirement to reduce your operational costs and environmental footprint in a meaningful way.

Atlas Copco's GA Variable Speed Drive iPM technology closely matches the air demand by automatically adjusting the motor speed. This results in energy savings of up to 35%.



Fixed-speed
unadaptable energy use

Traditional fixed-speed compressors only have one speed, 100% on. The result is a lot of wasted energy when your demand is lower.



< > VSD
energy use follows fluctuating demand

Atlas Copco Variable Speed Drive compressors have an inverter that allows them to adjust their motor speed to match the air demand to give you unprecedented energy savings:

- Up to 35% energy savings with an extensive flow range.
- Integrated Elektronikon Touch controller controls the motor speed.
- Advanced inverter built for optimal compressor operation.
- Oil-cooled iPM motor means compressor can start/stop under full system pressure without the need to unload.
- Eliminates peak current penalty during start-up.

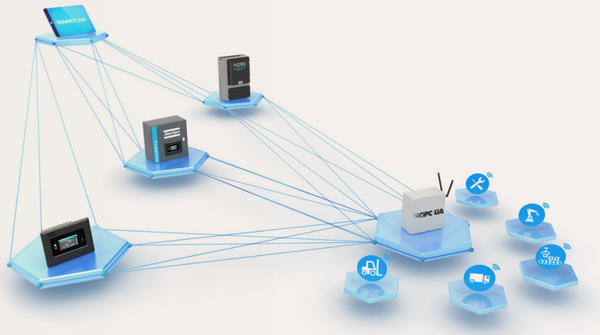
AIRchitect

Calculate your own savings

Want to find out how much you can save? Your Atlas Copco representative can calculate your savings for you with AIRchitect. Or simply use our online simulation tool on the Atlas Copco web site.

As connected as you will be

When it comes to connectivity, manufacturing equipment has long lagged behind. Not Atlas Copco. Our compressed air systems helped pave the way for Industry 4.0. We have never stopped developing innovative features and introducing new options to help our customers meet their operational goals.



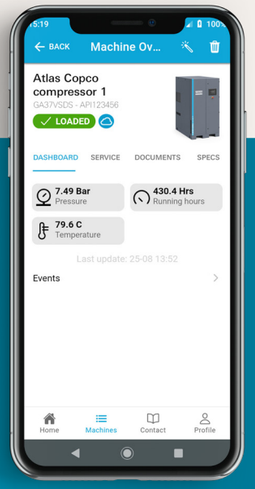
Elektronikon Touch

- **Ease of use**: 4.3-inch high-definition color display with clear pictograms and service indicator.
- **Reliable**: user-friendly, multilingual user interface and durable keyboard.
- **Flexible**: four different week schedules for 10 consecutive weeks.
- **Internet-based** compressor visualization with a simple Ethernet connection.
- **Remote control** and connectivity functions.

SMARTLINK
BY ATLAS COPCO

Remote connectivity

- Real-time monitoring of your compressor's operational parameters on your computer or mobile device.
- Performance data and insights identify opportunities for optimization.
- Service timeline.
- Maintenance and service alerts.
- Online resource center with manuals, documentation and technical information.



Equalizer 4.0

Manage up to 6 compressors in one air network with the EQ central controller (integrated in your compressor or as a standalone unit):

- **Reduced pressure band**: Create a narrow, predefined pressure band to save energy.
- **Optimal system performance**: Program all compressors to have equal running hours to reduce service intervals.
- **Improve reliability and efficiency**: With actionable performance reports, service warnings, and energy efficiency data.
- **Multiple compressor control**: Manage up to 6 compressors in one air network.

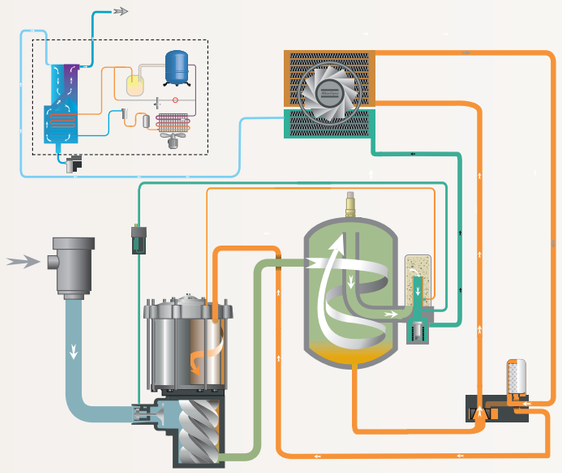
Built-in quality air

Untreated compressed air contains moisture and aerosols that increase the risk of corrosion and compressed air system leaks. This can result in a damaged air system and contaminated end products. The GA VSD comes in a Full Feature version with a built-in refrigerant dryer. It provides the clean, dry air that improves your system's reliability, avoids costly downtime, and safeguards the quality of your products.

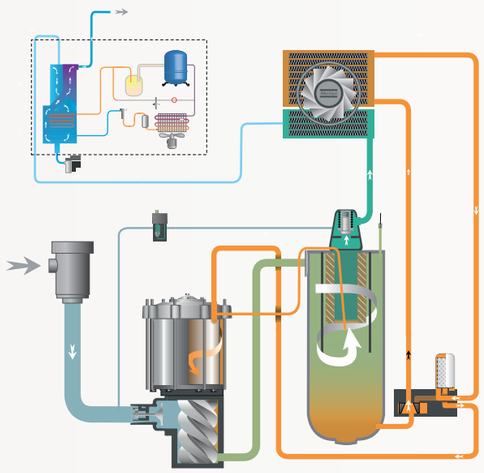
- Pressure dew point of 7°C/44.6°F (100% relative humidity at 20°C/68°F).
- Heat exchanger cross-flow technology with low pressure drop.
- Lower global warming potential because the dryer requires less refrigerant.

Flow charts

GA 15-30 VSD



GA 37-45 VSD



Technical specifications

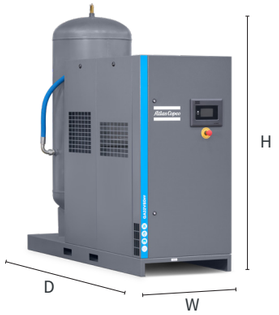
Compressor type	Working pressure		Capacity FAD* (min-max)						Motor power		Noise	Weight			Outlet
	bar (e)	psig	l/s		m^3/min		cfm		kW	hp	dB(A)	Pack (kg)	FF (kg)	FF TM (kg)	
GA 15 VSD	4	58	12	44	0.75	2.64	26	93	15	20	69	227	340	450	G1
	7	102	12	43	0.73	2.59	26	91	15	20	69	227	340	450	G1
	8	116	12	41	0.73	2.44	26	86	15	20	69	227	340	450	G1
	10	145	12	38	0.74	2.29	26	81	15	20	70	227	340	450	G1
GA 18 VSD	4	58	13	59	0.80	3.55	28	125	18	25	69	238	358	460	G1
	7	102	13	58	0.78	3.48	28	123	18	25	69	238	358	460	G1
	8	116	13	55	0.77	3.31	27	117	18	25	69	238	358	460	G1
	10	145	13	49	0.75	2.96	27	105	18	25	70	238	358	460	G1
GA 22 VSD	4	58	13	70	0.81	4.18	29	148	22	30	70	250	372	478	G1
	7	102	13	68	0.79	4.10	28	145	22	30	70	250	372	478	G1
	8	116	14	66	0.82	3.95	29	139	22	30	70	250	372	478	G1
	10	145	14	61	0.87	3.65	31	129	22	30	71	250	372	478	G1
GA 26 VSD	4	58	13	80	0.76	4.82	27	170	26	35	74	329	435	N/A	G1
	7	102	12	79	0.74	4.73	26	167	26	35	74	329	435	N/A	G1
	8	116	12	76	0.74	4.53	26	160	26	35	75	329	435	N/A	G1
	10	145	12	69	0.74	4.14	26	146	26	35	76	329	435	N/A	G1
GA 30 VSD	4	58	20	93	1.23	5.57	43	197	30	40	72	359	465	N/A	G1 1/2
	7	102	20	93	1.21	5.55	43	196	30	40	72	359	465	N/A	G1 1/2
	8	116	21	89	1.23	5.35	44	189	30	40	72	359	465	N/A	G1 1/2
	10	145	21	82	1.29	4.94	45	174	30	40	73	359	465	N/A	G1 1/2
GA 37 VSD	4	58	20	118	1.22	7.05	43	249	37	50	74	379	562	N/A	G1 1/2
	7	102	20	117	1.19	7.02	42	248	37	50	74	379	562	N/A	G1 1/2
	8	116	20	112	1.22	6.74	43	238	37	50	74	379	562	N/A	G1 1/2
	10	145	21	103	1.26	6.17	44	218	37	50	75	379	562	N/A	G1 1/2
GA 45 VSD	4	58	30	144	1.78	8.64	63	305	45	60	75	427	610	N/A	G1 1/2
	7	102	29	143	1.74	8.59	61	303	45	60	75	427	610	N/A	G1 1/2
	8	116	37	137	2.23	8.24	79	291	45	60	75	427	610	N/A	G1 1/2
	10	145	38	116	2.29	6.97	81	246	45	60	76	427	610	N/A	G1 1/2

** Unit performance measured according to ISO 1217 ed. 4 2009, annex E, latest edition.

** Mean noise level measured at a distance of 1 m at max. working pressure according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method); tolerance 3 dB(A).

Reference conditions:
- Absolute inlet pressure 1 bar (14.5 psi)
- Intake air temperature 20°C/68°F

FAD is measured at the following effective working pressures:
- 4 bar(e)
- 7 bar(e)
- 8 bar(e)
- 10 bar(e)



Dimensions

Dimensions (WxDxH)	Pack (mm)	Full Feature (mm)	Full Feature Tank-mounted (mm)
GA 15-22 VSD	700 x 700 x 1470	700 x 1230 x 1470	700 x 1950 x 1911
GA 26-45 VSD	870 x 840 x 1720	870 x 1465 x 1720	N/A

Options

- FoodGrade oil
- UD+ filter
- IT ancillaries
- WSD water separator
- **SMART**LINK remote connectivity

2935 0855 40 © 2025, **Atlas Copco (Wuxi) Compressor Co., Ltd.**
All rights reserved. Designs and specifications are subject to change without notice or obligation. Read all safety instructions in the manual before usage.

Level up your experience at atlascopco.com