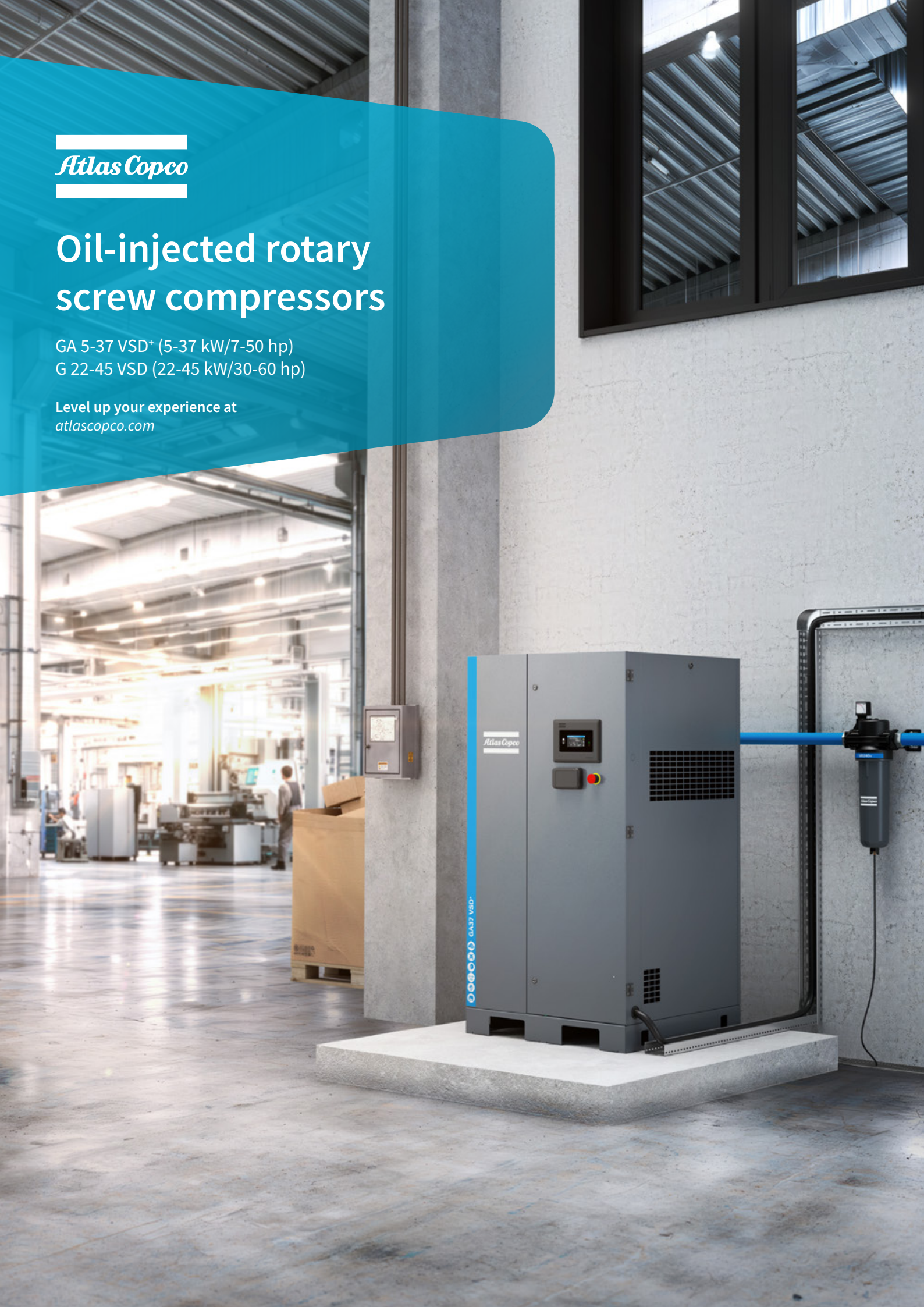
Oil-injected rotary screw compressors

GA 5-37 VSD+ (5-37 kW/7-50 hp)
G 22-45 VSD (22-45 kW/30-60 hp)

Level up your experience at
atlascopco.com



Where you're going

Every compressor we build starts with your production goals, not ours. That focus drives Atlas Copco's investment in innovation: understanding where you need to go, and engineering compressed air systems that help you reach that target.

How you get there matters just as much. So we ensure that journey runs on a compressed air system that lasts longer, that adjusts to your production needs in real time, and that cuts energy use, supporting your efficiency and sustainability priorities along the way.

150 years

That is our promise to you:
More than 150 years of expertise, invested in the dual commitment to your goals and how you meet them.





A VSD for a new generation

For decades, you have counted on Atlas Copco and our GA oil-injected screw compressors to power your production. Our latest generation of Variable Speed Drive (VSD) models give you that reliability and performance with unparallelled energy savings. And with a choice between our record-breaking GA 5-37 VSD+ and the new G 22-45 VSD, you will be sure to find an Atlas Copco VSD screw compressor that meets your individual needs.

A complete GA offer

Energy savings

35%
on average

up to
60%

G VSD

- iPM motor
- Purpose-developed inverter
- Elektronikon® Touch
- Optional no-loss electronic drain

GA VSD+

- FASR motor
- Neos Next
- Elektronikon® Touch
- VSD fan
- Smart Temperature Control System
- CPC+ moisture control
- Electronic drains

GA 5-37 VSD+
The premium VSD compressor

Atlas Copco's premium VSD range does more than set new performance standards. The GA 5-37 VSD+ is a true smart compressor, adapting its operation in real-time to your working conditions. It comes with a host of innovative, intelligent features that maximize reliability and lifetime, increase efficiency, and reduce your operating costs.



1 High-performance drive train

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

2 Neos Next inverter

- Clean, robust design.
- IP54-protected from dust and dirt.
- Inverter and iPM motor exceed IES2 (EN 50598) requirements for power drive efficiency.
- In-house design with smart algorithms optimizing performance and efficiency.



3 VSD fan

- Variable speed.
- Low vibrations and noise.
- Reduced cooling needs.
- Meets ERP2026.



4 Smart Thermostatic Control Valve

- Maintenance-free.
- Routes the oil via the coolers to achieve the ideal injection temperature.

5 Electronic drain

- Ensures the automatic removal of condensate to minimize loss of compressed air.
- Alarm feedback in case of clogging.

6 Moisture vent

- Removes moisture in extreme low-load, leakage-flow conditions.
- Separates oil and controls blow-off noise while allowing moisture to leave the system.
- Removes up to four times more water than a conventional CPC.



7 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.
- Standard **SMART**LINK remote monitoring to maximize air system performance and energy savings.

Up to
60%
energy savings*
No unload losses

*compared to fixed-speed GA models

8 EQ2i

- Multiple compressor control integrated as standard.

9 SmartBox Pro

- IP65-rated housing designed for demanding compressor-room conditions.
- Wide connectivity via cellular networks, Ethernet, Wi-Fi, and industrial interfaces.
- Data encryption and local buffering to ensure continuity during internet outage.

Exclusive features that make a difference

Condensate prevention

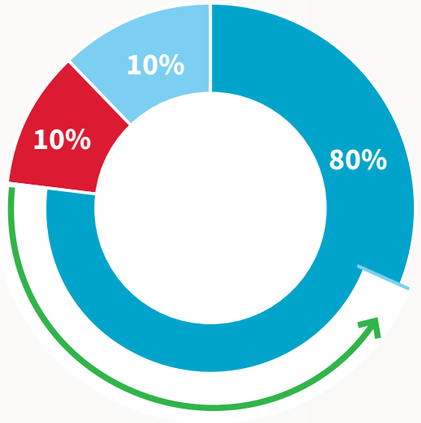
Thanks to its Smart Temperature Control System and the CPC+, the GA VSD+ is the first compressor to eliminate the risk of condensation. The STC's real-time oil-temperature management prevents condensation during normal operation. The CPC+ removes any moisture in extreme low-flow conditions.

Standard baffling

Dedicated baffling around the drive train and vessel reduces sound levels and significantly improves sound quality, making the GA VSD+ the ultimate workplace compressor.

A new generation of savings and sustainability

VSD⁺ continues a proud tradition of ground-breaking energy savings with up to 60% lower energy use compared to GA fixed-speed models. But the VSD⁺ is more than the most energy-efficient compressor on the market today. It is a comprehensive re-invention of VSD technology that supports production sustainability.



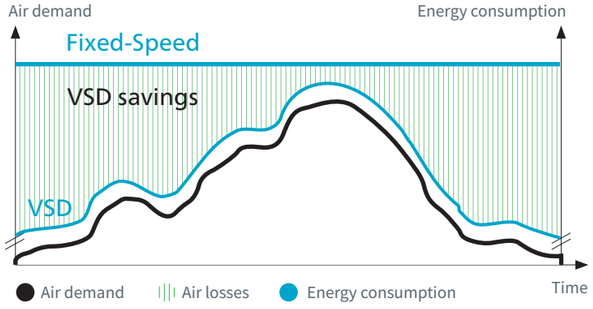
Energy matters

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.

Total compressor lifecycle cost

- Energy
- Energy savings with VSD⁵
- Investment
- Maintenance

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.

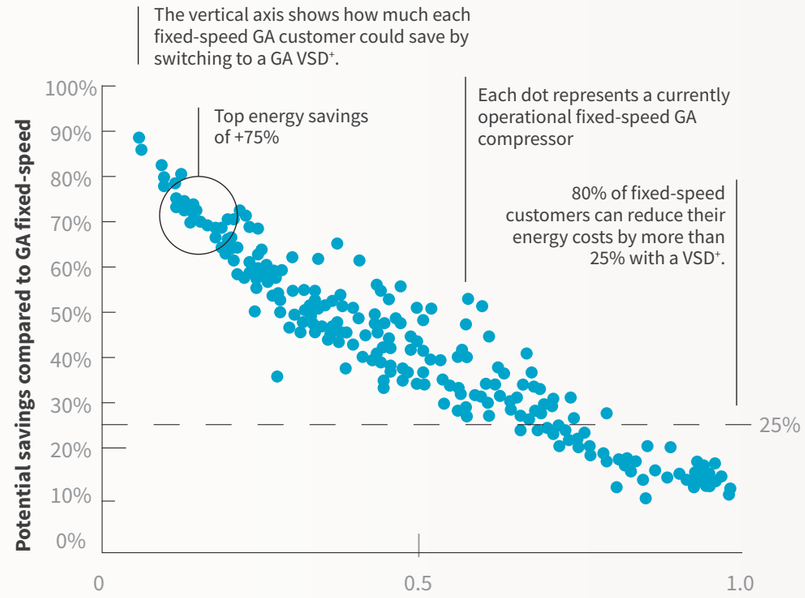
VSD: energy use follows fluctuating demand

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

- Elektronikon Touch controls the high-efficiency Neos Next inverter and the motor speed to lower energy use.
- No wasted idling time or blow-off losses during operation.
- Compressor can start/stop under system pressure without the need to unload.
- Eliminates peak current penalty during start-up.
- Minimizes system leakage due to a lower system pressure.
- EMC compliance to directives (2004/108/EG).

Real-life savings

How much can you save with VSD⁺? We took real-life customer data and compared the energy use of their gear-driven fixed-speed models with the performance a GA VSD⁺ could give them.



Potential savings compared to GA fixed-speed
22 kW, 7 bar example based on real customer data

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 website.

What is your load ratio?

$$\frac{\text{Loaded hours}}{\text{Total run time}}$$

The load ratio used in this graph reflects how much, out of its total time running, the compressor is actually producing air at full speed. If you have a fixed-speed compressor, a low load ratio indicates significant energy waste: the machine spends a lot of time using energy without producing air at maximum capacity. As a result, customers operating a fixed-speed unit with a lower load ratio can save even more on energy costs with a VSD⁺.

The power of numbers

So the GA VSD⁺ offers double-digit energy savings. What does that mean, really? Take the GA 22 VSD⁺ versus a fixed-speed GA 22 with the same fluctuating load profile, running 16 hours a day/5 days per week/48 weeks a year:

- **Yearly energy savings: 4161 €***
- **Yearly emissions savings: 13.9 tonnes CO_2**

* With cost of energy 0.15 cent/kWh. CO_2 factor of 0.5kg CO_2/kWh.

G 22-45 VSD

Variable Speed Drive quality within reach

Trust the pioneer in Variable Speed Drive compressors to always deliver powerful VSD savings and sustainability. The Atlas Copco G 22-45 VSD gives you energy savings of 35% on average and a reliable performance in the harshest conditions. Advanced features such as the purpose-developed inverter and an iPM motor are built into a vertical, compact canopy to allow installation in the smallest room or at the point of use.

35%
energy savings
on average*

*compared to fixed-speed GA models

1 IP68-protected drive train

- iPM motor equals IE5 standards.
- Oil-cooled and service-free.

2 High-performance inverter

- Clean architecture with minimal external wiring and fewer cabinet components for robustness and simple installation.
- Adapts cooling to actual operating conditions.
- EMC solution, DC choke and Safe Torque Off integrated as standard.

3 Elektronikon Touch controller

- High-tech controller with warning indications, compressor shutdown and maintenance scheduling.
- Standard **SMART**LINK remote monitoring to maximize air system performance and energy savings.

4 SmartBox Pro

- IP65-rated housing designed for demanding compressor-room conditions.
- Wide connectivity via cellular networks, Ethernet, Wi-Fi, and industrial interfaces.
- Data encryption and local buffering to ensure continuity during internet outage.



5 Inlet filter

- Enhanced filtration efficiency.
- Ensures low pressure drop.



6 No-loss electronic drain (optional)

- Automatically removes condensate to minimize loss of compressed air.
- Alarm function.

7 Oil filter & separator

- High-efficiency air-oil separator system reduces oil consumption, lowers maintenance costs, and ensures a good oil separation result.
- Oil filter removes particles > 25 microns with 99% efficiency to protect lubrication quality and the health of rotating components.

8 Easy installation & service

- Compact, vertical footprint saves on floorspace.
- Forklift slots ensure easy maneuvering.
- Easy access panels for quick service and longer uptime.

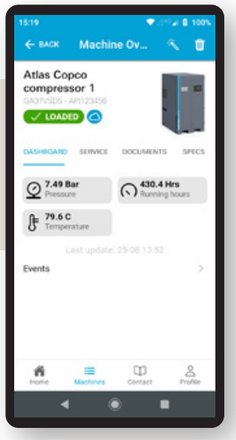
Quality air

To give you the dry, quality air you need, a Full Feature version is available with integrated dryer:

- High-efficiency refrigerant dryer fully built-in.
- Protection of downstream air equipment from the harmful effects of moisture.
- Low-GWP refrigerant R513A.
- Incorporates optional UD+ filter to meet ISO 8573-1 Quality Class 1.4.2.

As connected as you will be

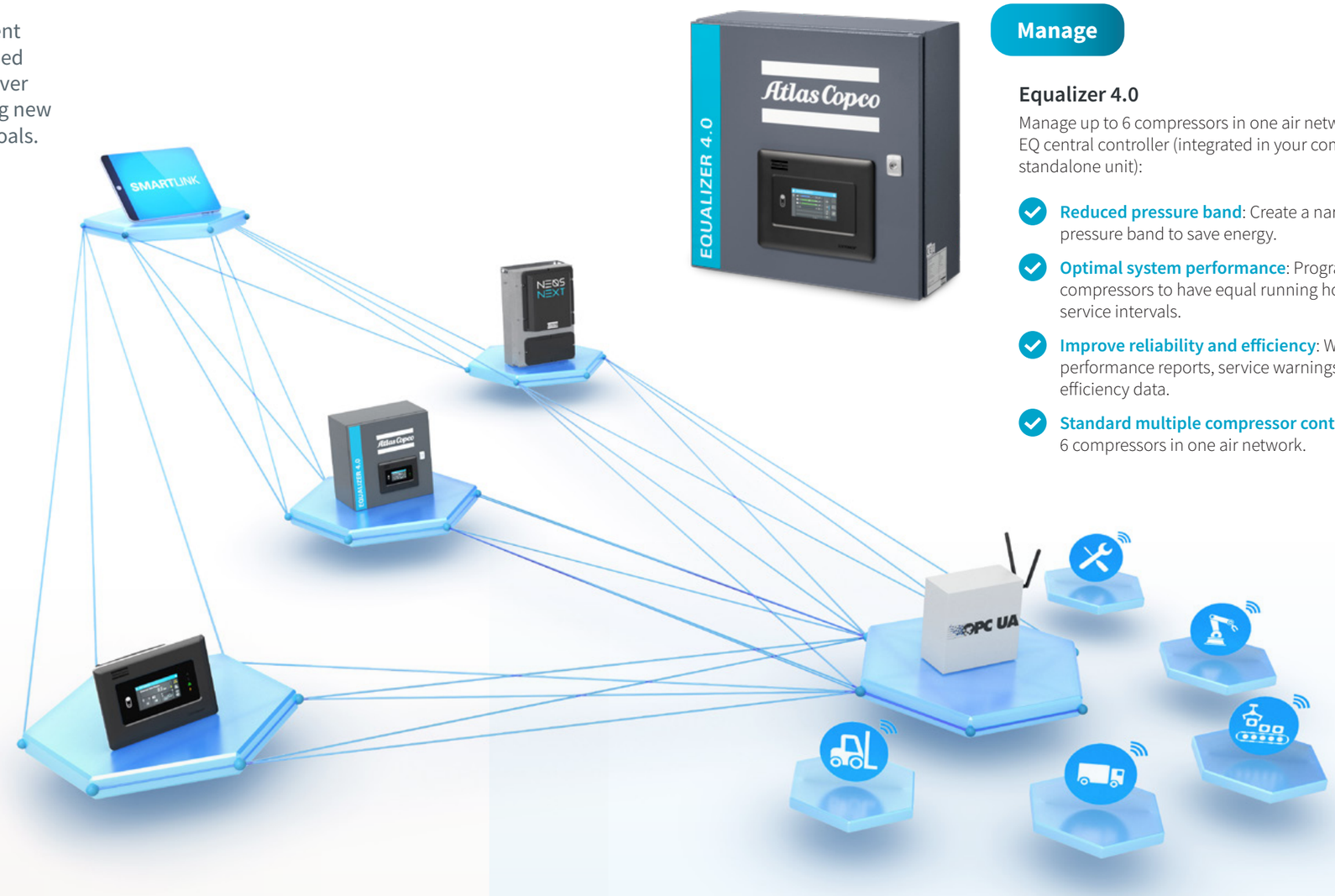
When it comes to connectivity, manufacturing equipment has long lagged behind. Not Atlas Copco. Our compressed air systems helped pave the way for Industry 4.0. We never stopped developing innovative features and introducing new options to help our customers meet their operational goals.



Connect

SMARTLINK

- 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.



Manage

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.
- **Standard multiple compressor control**: Manage up to 6 compressors in one air network.



Control

Elektronikon Touch

The Elektronikon Touch features a 4.3-inch user-friendly, multilingual display with clear pictograms and a service indicator. The operating system offers a host of control and monitoring options and smart algorithms to optimize your compressor performance. Customized timers and efficiency controls are just a few examples.

Optimize

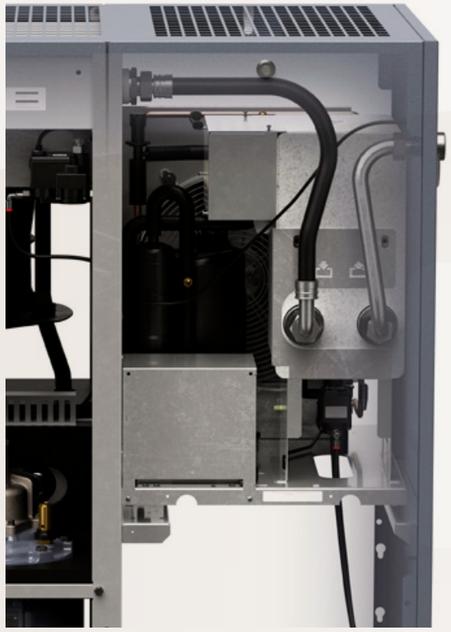
OPC UA

Atlas Copco was the first compressor manufacturer to offer OPC UA, the machine-to-machine communication protocol that was developed especially for industrial automation. That means you can integrate your Atlas Copco compressor seamlessly in your production network:

- Standardization of production equipment communication.
- Insight into production system performance and optimization options.
- Network security thanks to various encryption levels, authentication, auditing, and user control to ensure security.

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. All GA VSD+ and G VSD models come 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 dewpoint of 3°C/37.4°F for the GA VSD+, 7°C/44.6°F for the G VSD (100% relative humidity at 20°C/68°F).
- Heat exchanger cross-flow technology with low pressure drop.
- Low-GWP refrigerant R513A.

A GA VSD+ and G VSD with built-in dryer and UD+ filter meets ISO 8573-1 Quality Class 1.4.2.

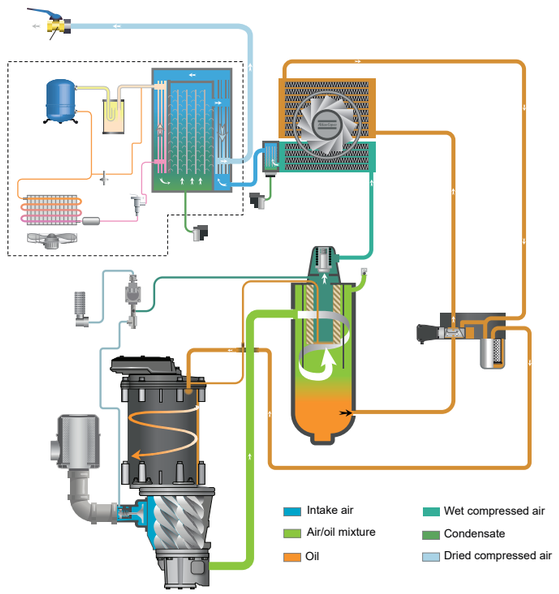
Purity class	Solid particles			Water		Total oil*
	Number of particles per m³			Pressure dewpoint		Concentration
	0.1 < d ≤ 0.5 µm**	0.5 < d ≤ 1.0 µm**	1.0 < d ≤ 5.0 µm**	°C	°F	mg/m³
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20000	≤ 400	≤ 10	≤ -70	≤ -94	≤ 0.01
2	≤ 400000	≤ 6000	≤ 100	≤ -40	≤ -40	≤ 0.1
3	-	≤ 90000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10000	≤ 3	≤ -37.4	≤ 5
5	-	-	≤ 100000	≤ 7	≤ 44.6	-
6	≤ 5 mg/m³			≤ 10	≤ 50	-

* Liquid, aerosol and vapor.
** d= diameter of the particle.

Options

	GA 5-37 VSD+	G 22-45 VSD
Energy recovery	✓	-
Dryer bypass	✓	-
Potential-free contacts	✓	-
Remote monitoring	✓	-
Freeze protection	✓	-
Electronic water drain (EWD)	-	✓
Heavy-duty inlet filter	✓	-
Pre-filter	✓	✓
IT ancillaries	✓	✓
DD filter	✓	✓
FoodGrade oil	✓	✓
UD+ filter	✓	✓
Roto Synthetic Xtend oil	✓	✓
Central control	EQ4i, EQ6i	EQ2i, EQ4i, EQ6i
OPC UA gateway	✓	-
Power duct fan	✓	-
High ambient version	-	✓
Tropical thermostat	-	✓

Flow chart GA VSD+





Feature spotlight: Energy recovery

Use your compressor energy twice

Compressing air generates a lot of heat. In fact, most of the electrical energy that goes into a compressor is converted into heat. Without energy recovery, this heat gets dissipated back into the environment. Energy recovery technology captures up to 94% of this waste heat as hot water or hot air and lets you re-use it for applications that need it anyway, like HVAC systems or industrial processes. That means you get to use your compressor's energy twice. At a time when energy efficiency has become a top priority, compressor heat recovery is one of the most significant means to lower your operations' energy use as well as your carbon footprint.

Technical specifications GA 5-37 VSD+

Compressor type	Working pressure		Capacity FAD** (min-max)			Installed motor power		Noise level***	Weight (kg)	
	bar (e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	Pack	Full Feature
GA 5 VSD+ *	4	58	6.9-19.1	24.9-68.9	14.7-40.5	5.5	7.5	62	223	306
*	7	102	6.6-19.1	23.8-68.9	14.0-40.5	5.5	7.5	62	223	306
*	10	147	6.1-15.3	22.1-55.2	13.0-32.5	5.5	7.5	62	223	306
*	12.5	181	6.1-15.0	21.8-54.0	12.8-31.8	5.5	7.5	62	223	306
GA 7 VSD+ *	4	58	6.7-23.0	24.0-82.7	14.1-48.7	7.5	10	62	225	307
*	7	102	6.4-22.6	22.9-81.2	13.5-47.8	7.5	10	62	225	307
*	10	147	5.9-18.6	21.2-66.8	12.5-39.3	7.5	10	62	225	307
*	12.5	181	5.8-14.7	20.9-52.8	12.3-31.1	7.5	10	62	225	307
GA 11 VSD+	4	58	6.4-38.8	22.9-139.8	13.5-82.3	11	15	67	302	384
	7	102	5.7-38.2	20.7-137.4	12.2-80.9	11	15	67	302	384
*	10	147	6.4-32.3	22.9-116.2	13.5-68.4	11	15	67	389	435
*	12.5	181	6.3-26.6	22.6-95.8	13.3-56.4	11	15	67	389	435
GA 15 VSD+	4	58	6.4-50.3	22.9-181.2	13.5-106.7	15	20	69	302	417
	7	102	5.7-49.4	20.7-177.9	12.2-104.7	15	20	69	302	417
	10	147	3.9-41.1	14.1-147.8	8.3-87.0	15	20	69	302	417
*	12.5	181	6.3-32.4	22.6-116.6	13.3-68.6	15	20	69	236	351
GA 18 VSD+	4	58	6.4-67.0	22.9-241.3	13.5-142.1	18	25	69	311	427
*	7	102	5.7-65.2	20.7-234.6	12.2-138.1	18	25	69	311	427
*	10	147	3.9-55.4	14.1-199.4	8.3-117.4	18	25	69	311	427
*	12.5	181	2.7-44.7	9.6-160.8	5.6-94.7	18	25	69	311	427
GA 22 VSD+	4	58	15.9-84.5	57.3-304.0	33.7-178.9	22	30	64	458	587
	7	102	16.2-83.3	58.2-299.7	34.3-176.4	22	30	64	458	587
	10	147	16.2-65.9	58.2-237.2	34.3-139.6	22	30	64	458	587
*	12.5	181	15.7-56.3	56.4-202.5	33.2-119.2	22	30	64	387	516
GA 26 VSD+	4	58	15.9-98.1	57.3-353.1	33.7-207.8	26	35	66	463	604
	7	102	16.2-96.8	58.2-348.6	34.3-205.2	26	35	66	463	604
	10	147	16.2-81.3	58.2-292.6	34.3-172.2	26	35	66	463	604
*	12.5	181	15.8-68.2	57.0-245.3	33.5-144.4	26	35	66	392	533
GA 30 VSD+	4	58	15.9-110.5	57.3-397.7	33.7-234.1	30	40	66	476	616
	7	102	16.2-109.2	58.2-393.1	34.3-231.4	30	40	66	476	616
	10	147	16.2-88.1	58.2-317.1	34.3-186.6	30	40	66	476	616
*	12.5	181	15.8-74.2	57.0-267.1	33.5-157.2	30	40	66	405	545
GA 37 VSD+	4	58	15.7-130.8	56.5-470.7	33.2-277.0	37	50	69	480	621
	7	102	15.7-129.4	56.4-465.7	33.2-274.1	37	50	69	480	621
	10	147	15.7-110.8	56.4-398.8	33.2-234.8	37	50	69	480	621
*	12.5	181	16.0-94.2	57.7-338.9	34.0-199.5	37	50	69	409	550

* 13-bar design
** 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).

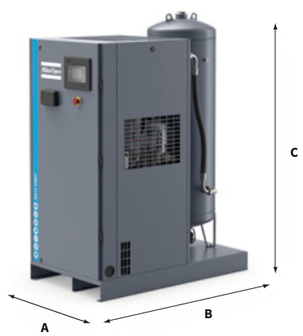
FAD is measured at the following effective working pressures:
- 4 bar(e)
- 7 bar(e)
- 9.5 bar(e)
- 12.5 bar(e)

Maximum working pressure:
10 bar(e) (147 psig) or 13 bar(e) (191 psig)

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

Dimensions

Pack	Dimensions (A x B x C)		Full Feature	Dimensions (A x B x C)	
	mm	in		mm	in
GA 5-11 VSD+ TM	700 x 1200 x 1630	27.56 x 47.24 x 64.17	GA 5-11 VSD+ TM	700 x 1595 x 1630	27.56 x 62.80 x 64.17
GA 5-18 VSD+	700 x 700 x 1495	27.56 x 27.56 x 58.86	GA 5-11 VSD+	700 x 1095 x 1495	27.56 x 43.11 x 58.86
GA 22-37 VSD+	870 x 954 x 1725	34.3 x 37.6 x 67.9	GA 15-18 VSD+	700 x 1200 x 1495	27.56 x 47.24 x 58.86
			GA 22-37 VSD+ FF	870 x 1480 x 1725	34.3 x 58.3 x 67.9



Technical specifications G 22-45 VSD

Compressor type	Working pressure		Capacity FAD** (min-max)			Installed motor power		Noise level***	Weight (kg/lbs)	
	bar (e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	Pack	Full Feature
G 22 VSD	4	58	75.37	271.3	159.7	22	30	74	384/847	506/1116
	7	102	74.53	268.3	157.9	22	30	74	384/847	506/1116
	9.5	138	59.46	214.1	126.0	22	30	74	384/847	506/1116
G 26 VSD	4	58	85.33	307.2	180.8	26	35	74	384/847	506/1116
	7	102	84.42	303.9	178.9	26	35	74	384/847	506/1116
	9.5	138	76.14	274.1	161.3	26	35	74	384/847	506/1116
G 30 VSD	4	58	102.63	369.5	217.5	30	40	73	396/873	550/1213
	7	102	101.46	365.3	215.0	30	40	73	396/873	550/1213
	9.5	138	84.85	305.5	179.8	30	40	73	396/873	550/1213
G 37 VSD	4	58	117.5	423.0	249.0	37	50	75	396/873	555/1224
	7	102	115.67	416.4	245.1	37	50	75	396/873	555/1224
	9.5	138	103.64	373.1	219.6	37	50	75	396/873	555/1224
G 45 VSD	4	58	147.43	530.7	312.4	45	60	76	396/873	555/1224
	7	102	147.01	529.2	311.5	45	60	76	396/873	555/1224
	9.5	138	117.88	424.4	249.8	45	60	76	396/873	555/1224

* 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).

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

Maximum working pressure:
10 bar(e) (138 psig)

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

Dimensions

Pack	Dimensions (A x B x C)	
	mm	in
G 22-45 VSD Pack	870 x 954 x 1725	34.3 x 37.6 x 67.9
G 22-45 VSD FF	870 x 1480 x 1725	34.3 x 58.3 x 67.9



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