





The new revolutionary compressor from **Atlas Copco**

Atlas Copco's GA 75L-110 VSD+ is not just a ground-breaking new compressor range, it is an operational transformation. It reduces your energy costs by 50% on average and maximizes uptime, even in the harshest conditions. Driving this next-level performance: Atlas Copco's Variable Speed Drive, a powerful interior permanent magnet motor, and our inhouse developed Neos inverter. Thanks to its compact vertical design, the GA 75L-110 VSD+ fits in even the smallest compressor room. Including yours? Discover how the GA 75L-110 VSD+ can transform your operational environment today.



Innovative

Atlas Copco has revolutionized compressor build and performance. Instead of the normal space-taking horizontal design, the new GA 75L-110 VSD+ has an upright, compact layout. This saves valuable floor and work space, eases maintenance access, and reduces the total cost of ownership for all customers.

Efficient

- Reduced energy consumption by 50% on average compared to the current idling models.
- Free Air Delivery (FAD) increase of up to 12%.

Meeting and exceeding efficiency benchmarks:

- The iPM motor of the GA 75L-110 VSD+ equals IE5 standards.
- The Neos inverter and iPM motor exceed IES2 (EN 50598) requirements for power drive efficiency.





Reliable

- Our Neos inverter, developed in-house to maximize compressor reliability, is built to provide extra protection against dust and other particles.
- Completely enclosed frequency drive and drive train ensure performance even in the harshest environments.
- Based on the unique combination of proven technologies and existing components, optimally brought together by Atlas Copco's experience and know-how.

Smart

- Easy monitoring and maintenance thanks to the Elektronikon® Touch controller.
- Maintenance notifications and machine status are available via SMARTLINK e-mail or text messages.
- Customized reports on the energy performance of your machine, in compliance with ISO 50001.



Inside the powerful GA 75L-110 VSD+





Meeting and exceeding efficiency benchmarks:

• The iPM motor of the GA 75L-110 VSD+ equals IE5 standards.



Interior Permanent Magnet (iPM) motor

- Compact, customized design for optimal cooling by oil.
- Designed in-house in Belgium.
- IP66 protection rating.
- No cooling air flow required.
- Oil-lubricated motor bearing: no (re)grease(ing) and increased uptime.



New compressor element

- Improved efficiency.
- Made by Atlas Copco.
- Robust and silent.



Direct drive

- Vertical design, less parts.
- Oil-cooled, pressure-tight.
- No gears or belts, no shaft seal.



- Heavy duty.
- Pressure drop indicator.
- Maintenance every 4,000 hours.



Cooling fan

- Optimized, application-specific design results in low noise and high efficiency.
- Condensation prevention cycle based on inlet humidity sensor.





Elektronikon° Graphic controller



- High-tech controller with warning indications, compressor shut-down and maintenance scheduling.
- Easy to use and designed to perform in the toughest conditions.
- Standard SMARTLINK remote monitoring to maximize air system performance and energy
- Optional multiple compressor control (2, 4 or 6 compressors).



VSD⁺ Neos cubicle

- VSD+ is superior to idling machines.
- Electrical components remain cool, enhancing their
- Dedicated Neos drive for iPM technology motors.
- Heat dissipation of inverter in separate compartment.



Magnetically fixed pre filter

- Pre-seperator of dust
- Simple to install
- Simple to clean



Classic cooler design

- Designed for lower operating temperature
- Integrated water separation.
- Separate oil/air cooler.
- Easy access for maintenance.



Integrated dryer

- Ensures excellence in air quality.
- Incorporates optional UD+ filter to meet ISO 8573-1 Quality Class 1.4.2.
- True plug-and-play design eliminates cost of installing a separate dryer.





Innovative Neos inverter

- Atlas Copco's in-house designed inverter now also controls iPM motors.
- IP5x protection.
- Robust aluminum enclosure for trouble-free operation in the harshest conditions.
- Fewer components: compact, simple and userfriendly.





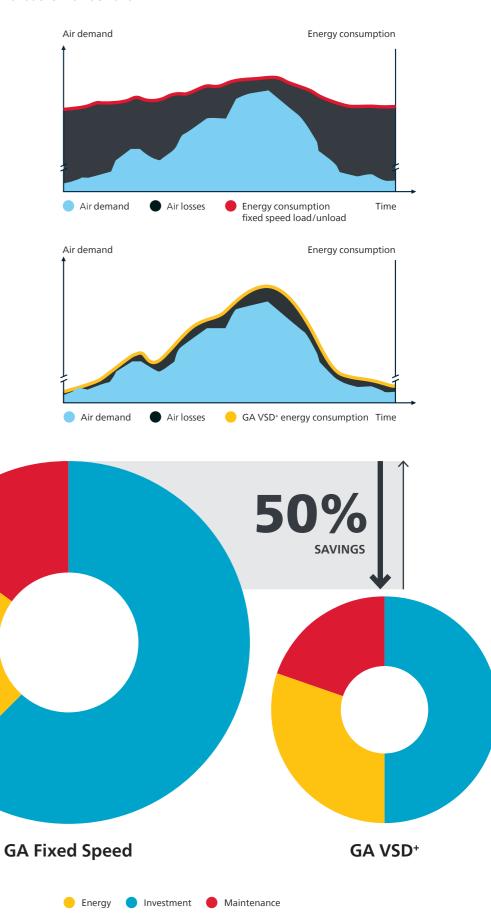
VSD+ for 50% average energy savings

Atlas Copco's GA Variable Speed Drive+ (VSD+) technology closely matches the air demand by automatically adjusting the motor speed. Combined with the innovative design of the iPM (Permanent Magnet) motor, this results in average energy savings of 50% and an average reduction of 37% in the lifecycle cost of a compressor.

Why Atlas Copco Variable Speed Drive* technology?

- On average 50% energy savings with an extensive flow range (20-100%).
- Integrated Elektronikon® Touch controller controls the motor speed and high-efficiency frequency inverter.
- No wasted idling times or blow-off losses during operation.
- Compressor can start/stop under full 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).

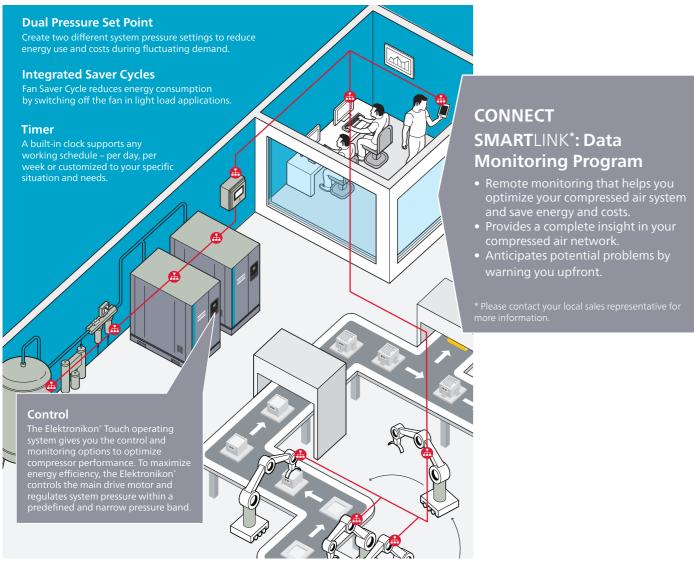
In almost every production environment, air demand fluctuates depending on different factors such as the time of the day, week or even month. Extensive measurements and studies of compressed air demand profiles show that many compressors have substantial variations in air demand.



^{*} Compared to fixed speed compressors, based on measurement performed by an independent energy audit agency.

Advanced monitoring, control & connectivity

Whether you call it Industry 4.0 or the Internet of Things (IoT), interconnectivity is the future. The GA 37-110 VSD+ comes fully prepared. Its advanced monitoring, control and connectivity features allow you to optimize compressor performance, resources, efficiency and productivity.



State-of-the-art Elektronikon® Touch controller

Improved user-friendliness: 4.3-inch high-definition color display with clear pictograms and service indicator.

Built-in SMARTLINK online monitoring.

Increased reliability: new, user-friendly, multilingual user interface and durable touch screen.

Key features:

- Automatic restart after voltage failure.
- Internet-based compressor visualization using a simple Ethernet connection.
- Dual Pressure Set Point.
- More flexibility: four different week schedules that can be programmed for
- Remote control and connectivity functions.
- Control up to 6 compressors by installing the optional equalizer central controller software.
- a period of 10 consecutive weeks. • On-screen Delayed Second Stop function and VSD+ savings indication. • Graphical service plan indication.







with installation and commissioning, and the maintenance that best fits your needs. From the timely supply of service

Care for your

compressed air

Compressed air is a vital part of your

production process. However, keeping

not require too much of your time or

attention. Leave it to the Atlas Copco

service experts! We are here to help you

your air system running perfectly should

parts to taking full responsibility of your compressed air installation, we can ensure the reliable performance, maximum uptime and optimal efficiency you need.

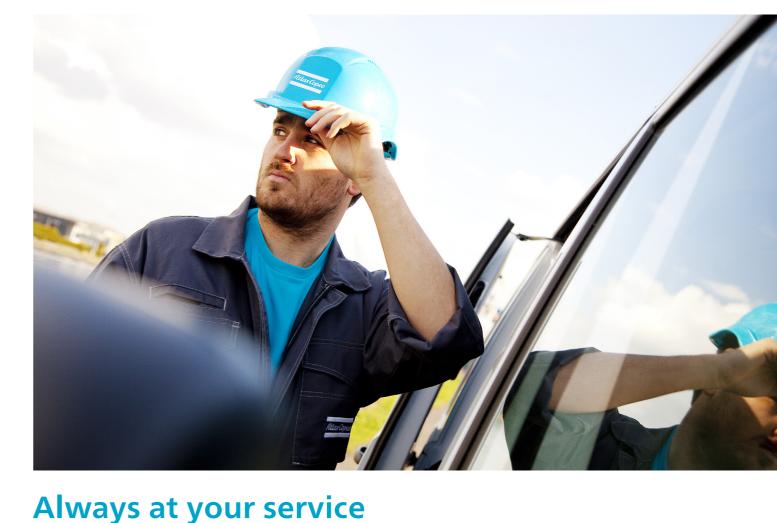
The value of service

As a world player in compressed air solutions, we know how to best maintain and optimize your system. Our expert service technicians are highly trained in the smallest details of your installation as well as its overall performance. To protect your investment and ensure the integrity of your air system, they use genuine Atlas Copco spare parts only. Atlas Copco parts are delivered on-time, anywhere on the planet, through our world-class logistics organization.

Our monitoring capabilities enable us to spot issues before they become problems. Along with our customized audits, they offer insights in how to optimize your efficiency and reduce costs.

Call your service partner

We have more than 4,000 service engineers in over 160 countries. You are sure to find one just around the corner. Don't wait to discover the real value of our service offer: having your compressed air installation running optimally and efficiently, without interruptions and at minimal cost. Contact us today!



Excellence in integrated air quality

Untreated compressed air contains moisture and aerosols which increase the risk of corrosion and compressed air system leaks. This can result in a damaged air system and contaminated end products. Maintenance costs can far exceed air treatment costs. The GA 37-110 VSD+ provides the clean, dry air that improves your system's reliability, avoids costly downtime and production delays, and safeguards the quality of your products.

On average 50% energy savings with newly designed integrated dryers

- Pressure dewpoint of 3°C/37.4°F (100% relative humidity at 20°C/68°F).
- Heat exchanger cross-flow technology with low pressure drop.
- Zero waste of compressed air thanks to no-loss condensate drain.
- Reduced operating costs.
- Environmentally-friendly characteristics: zero ozone depletion.
- Global warming potential has been lowered by an average of 50% by reducing the amount of refrigerant in the new dryer.



Meet your specific requirements

Thanks to its integrated dryer, the Atlas Copco GA 37-110 VSD+ offers the right air quality for your application.

Compressed air purity classification ISO 8573-1:2010

		Solid particles		Wa	Total oil⁺				
Purity	Nu	mber of particles per	m³	Pressure (Concentration				
class	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	-			≤ 7	≤ 44.6	-			
6		$\leq 5 \text{ mg/m}^3$		≤ 10	≤ 50	-			

^{*} Liquid, aerosol and vapor.

Integrated purity

Many Atlas Copco compressors (Full Feature option) come with an integrated dryer that efficiently removes moisture, aerosols and dirt particles to protect your investment. This quality air expands the life of your equipment, increasing efficiency and ensuring quality of your final product.

Main benefits of the new, integrated dryer solutions

- Thanks to the Saver Cycle and its extra ambient sensor, the dryer will shut down when a normal dewpoint is reached, allowing 2/3 of the dryer's power to be recuperated (standard on GA VSD+, optionla for GA*).
- Available in several variants, allowing you to gain high-quality air in all ambient conditions.
- The heat exchanger with integrated water separator minimizes the energy required to reach a certain air quality.
- Pressure dewpoint at 3°C/37°F on GA* and GA VSD* (100% relative humidity at 20°C/41°F on GA).
- The dryer's global warming potential has been reduced by 44% on average. This not only results from the refrigerant's environmentally-(valid for both GA* and GA VSD*).
- Can be outfitted with optional UD* filters to obtain the exact airquality you need.



	ISO QUALITY CLASS*		WATER PRESSURE DEWPOINT GA**	WATER PRESSURE DEWPOINT GA+**	OIL CONCENTRATION	
Pack unit	34	3 microns	-	-	3ppm	
Full Feature unit	3.4.4	3 microns	+5°C/41°F	+3°C/37°F	3ppm	
Full Feature unit with Class 2 integrated filter	2.4.2	1 micron	+5°C/41°F	+3°C/37°F	0.1ppm	
Feature unit with Class 1 integrated filter	1.4.1	0.01 microns	+3°C/37°F	+3°C/37°F	0.01ppm	

^{*}The table values are maximum limits according to the respective ISO quality class.

d= diameter of the particle.

^{**}Water pressure dewpoint based on 100% RH at 20°C/68°F

Technical Specifications GA 75L-110VSD⁺

Туре	Working pressure		Capacity FAD* (min-max)			Installed m	otor power	Noise level**	Weight WorkPlace	Weight WorkPlace Full Feature	
	bar(e)	psig	l/s	m³/hr	cfm	kW	hp	dB(A)	kg	kg	
	4	58	47-269	169-967	100-569	75	100	73	1207	1496	
GA 75L VSD+	7	102	48-266	172-957	101-563	75	100	73	1207	1496	
GA / SL VSD	9.5	138	58-235	210-847	124-498	75	100	73	1207	1496	
	12.5	181	70-194	252-699	149-411	75	100	73	1207	1496	
	4	58	48-311	174-1121	102-660	90	125	74	1213	1503	
GA 90 VSD+	7	102	49-306	176-1101	104-648	90	125	74	1213	1503	
GA 90 VSD	9.5	138	60-269	215-969	127-570	90	125	74	1213	1503	
	12.5	181	71-218	255-784	150-461	90	125	74	1213	1503	
	4	58	47-348	170-1251	100-736	110	150	76	1222	1573	
CA 110 VCD+	7	102	49-345	175-1241	103-731	110	150	76	1222	1573	
GA 110 VSD+	9.5	138	59-309	211-1111	124-654	110	150	76	1222	1573	
	12.5	181	71-268	254-965	150-568	110	150	76	1222	1573	

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)
- 9.5 bar(e)
- 12.5 bar(e)
Maximum working pressure: 13 bar(e) (188 psig)

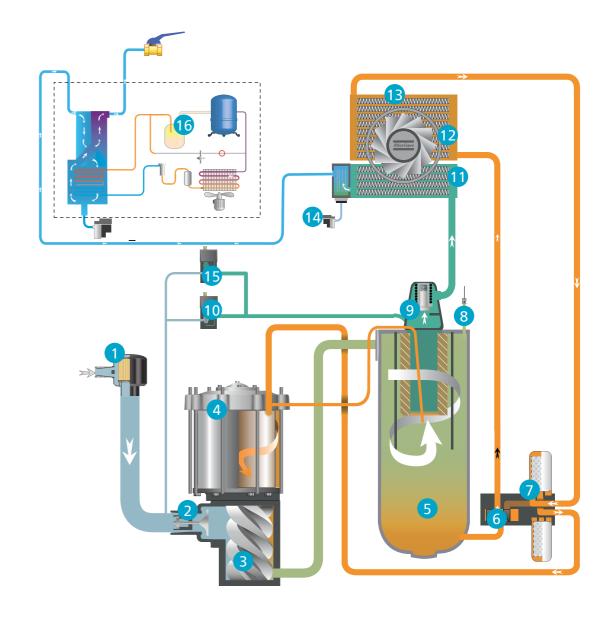
Options

Energy recovery
UD+ filter
RXD oil
ES4i, ES6i



DIMENSIONS	Standard						Full Feature					
	D (mm)	W (mm)	H (mm)	D (in)	W (in)	H (in)	D (mm)	W (mm)	H (mm)	D (in)	W (in)	H (in)
GA 75-110 VSD+	1400	1300	1968	55.12	51.18	77.48	2178	1300	1968	85.75	51.18	77.48

Flow Chart GA 75L - 110 VSD+



- 1 Inlet filter 2 VSD valve
- 4 Interior permanent magnet motor (iPM)
- 5 Air/oil vessel separator 6 Thermostatic bypass valve
- 7 Oil filter
- 8 Safety valve
- 9 Minimum pressure valve
- 10 Solenoid valve

- 11 After cooler
- 12 Fan 13 Oil cooler
- 14 Electronic drain (one drain mounted on after cooler for standard models, for Full Feature models a second drain is mounted on
- Condensate prevention cycle
 Dryer

- Wet compressed air
- Condensate
- Dry compressed air
- Intake air
- Air/oil mixture
- Oil

^{*} Unit performance measured according 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).









For more info

atlascopco.com

