



Atlas Copco



**Oil-injected rotary
screw compressors**



GA 30+-90/GA 37-110 VSD+ (30-110 kW/40-150 hp)



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 almost 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 sustainability



Smart Temperature Control System

Calculates and achieves the ideal oil-injection temperature based on actual operating conditions to maximize efficiency.



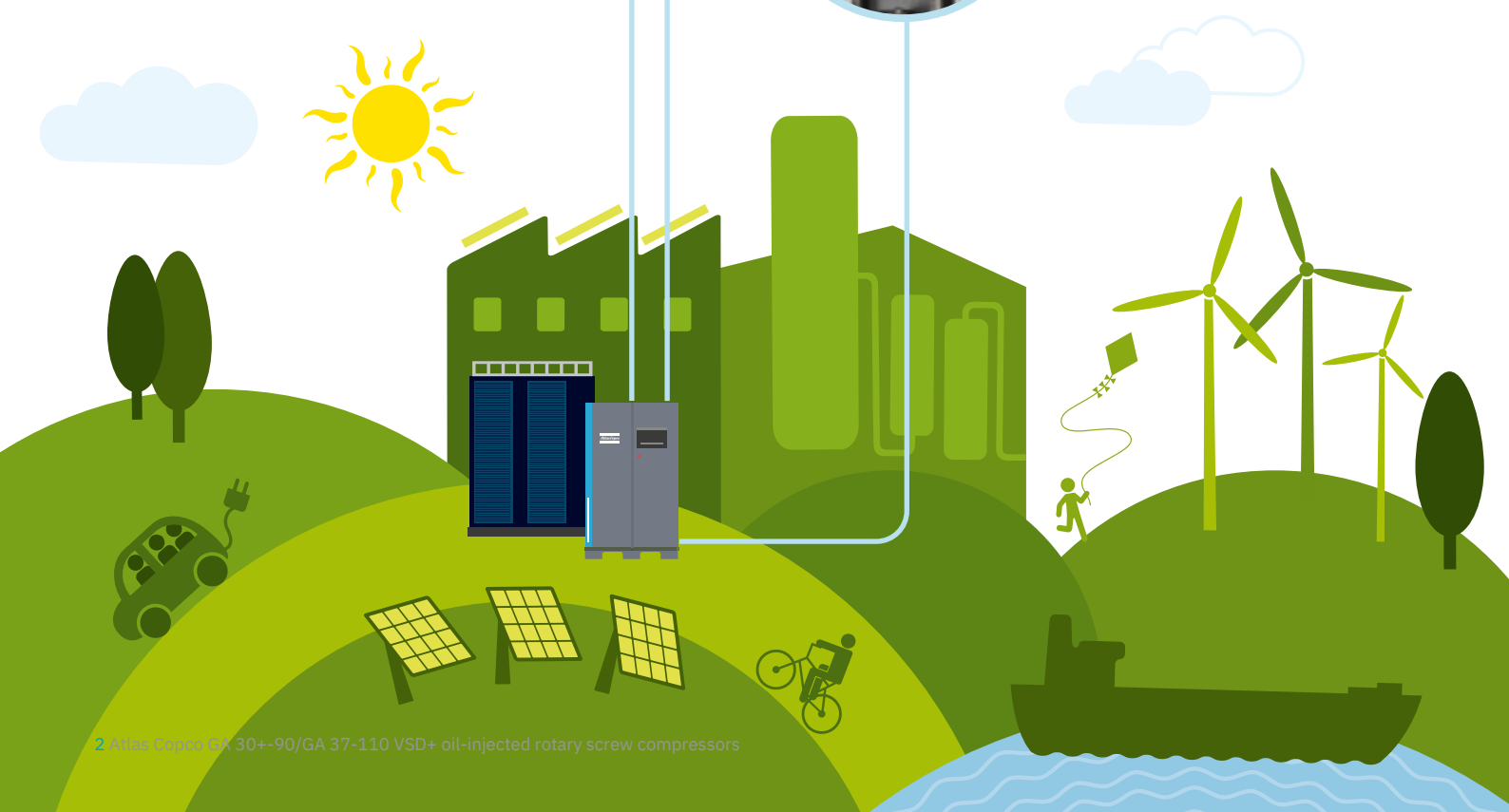
Intelligent sensors

Constantly monitor the pressure drop and thus any energy losses in the inlet filter, the oil separator, and the oil filter.



Energy recovery

Gives you additional energy savings by recovering and re-using up to 75% of the heat the compressor produces.



The ultimate smart solution, driven by efficiency



Atlas Copco's GA compressors bring you outstanding sustainability, reliability and performance, while minimizing total cost of ownership. A choice of three premium compressor types (GA VSD+, GA+ and GA) provides you with the compressed air solution that perfectly matches your requirements with clear value propositions. Built to perform even in the harshest environments, these compressors keep your production running efficiently.



GA 37-90 Premium compressor

- High-performance Free Air Delivery.
- Premium quality at the lowest initial investment.
- Integrated refrigerant dryer.
- Elektronikon® Touch or Swipe controller.
- **SMARTLINK** real-time, remote monitoring and optimization.



GA 30+-75+ Smart performance

- IE4 motor and high-efficiency element.
- In-house developed Smart Temperature Control System ensures oil temperature is always optimal to achieve maximum element efficiency and reliability (on GA 55+-75+).
- Low noise emission suitable for workplace installation.
- Integrated refrigerant dryer.
- Elektronikon Touch controller.
- **SMARTLINK** real-time, remote monitoring and optimization.
- OPC UA connectivity available.



GA 37L-110 VSD+ Ultimate energy saver

- Up to 50% energy savings compared to fixed-speed models.
- iPM motor exceeds IE5 standards.
- In-house designed Neos inverter and iPM motor exceed IES2 (EN 50598) requirements for power drive efficiency.
- Industry-leading operating turndown range.
- Wide pressure selection: 4-13 bar.
- Start under system pressure, no blow-off.
- Integrated refrigerant dryer.
- Elektronikon Touch controller.
- **SMARTLINK** real-time, remote monitoring and optimization.
- OPC UA connectivity available.

GA 37L-110 VSD+: Ultimate energy saver

When you are looking for efficiency, lowest cost of ownership and sustainability, the GA 37L-110 VSD+ delivers a superior solution. This oil-injected screw compressor with Variable Speed Drive technology generates energy savings of up to 50%. What is more, its upright, compact design saves valuable floor and workspace, eases maintenance access, and reduces total cost of ownership.

IE5

Meeting and exceeding efficiency benchmarks:

- The iPM motor of the GA 37L-110 VSD+ exceeds IE5 standards.
- Neos inverter and iPM motor exceed IES2 (EN 50598) requirements for power drive efficiency.

1

Interior Permanent Magnet (iPM) motor

- Oil-cooled motor.
- Optimal cooling for all speeds and ambient conditions.
- Designed in-house in Belgium.
- Oil-lubricated motor bearing: no (re)grease(ing), increased uptime.
- IP66: pressure-tight.

2

New compressor element

- New improved rotor profile.
- Reduced pressure losses.
- Optimized in and outlet portals.

3

Direct drive

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

4

Inlet filter

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

5

Electronic no-loss water drain

- Ensures constant removal of condensate.
- Manual integrated bypass for effective condensate removal in case of power failure.
- Integrated with compressor's Elektronikon with warning/ alarm features.



6

High-tech fan

- Compact.
- Low noise level.
- High capacity for optimized cooling.
- Compliant with ERP2020 efficiency standards.

7

Classic cooler design

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

8

Innovative Neos inverter

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

9

Integrated dryer

- Extracompact footprint.

10

Elektronikon Touch 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 savings.
- Optional multiple compressor control (2, 4 or 6 compressors).

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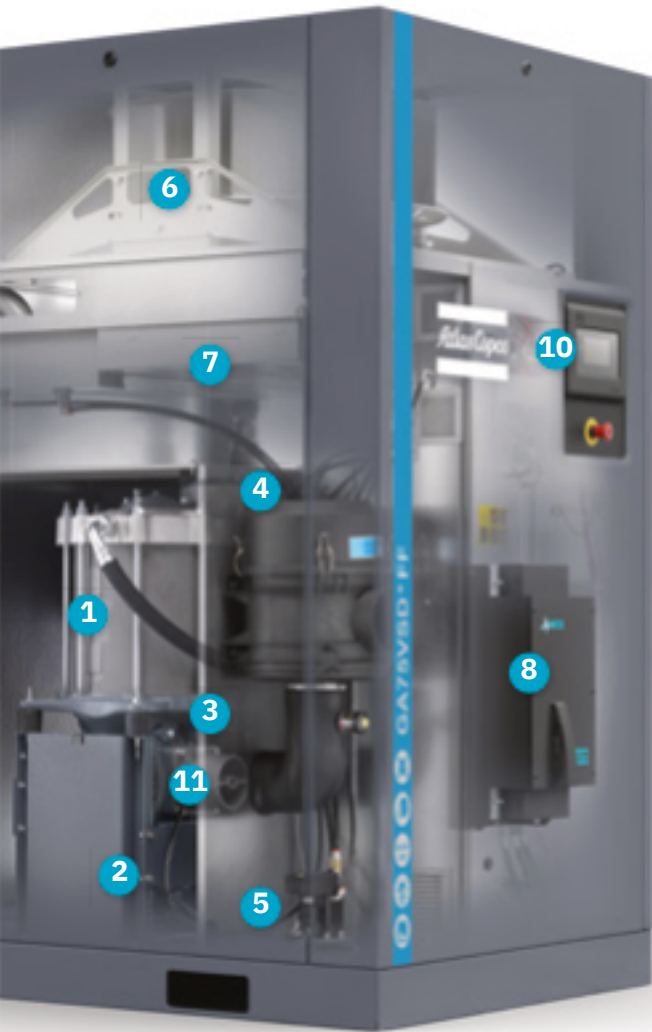
VSD+ Neos cubicle

- Electrical components remain cool, enhancing their lifetime.
- Dedicated drive for iPM technology motors.
- Heat dissipation of inverter in separate compartment.

11

Sentinel no-loss inlet valve

- Optimizes the inlet flow of the airtend.
- No blow-off losses.
- Full aluminum design: maintenance-free (GA 37L-75 VSD+).





VSD+ for up to 50% energy savings*

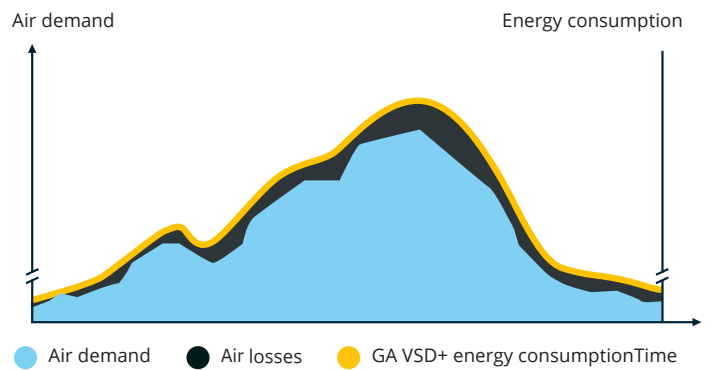
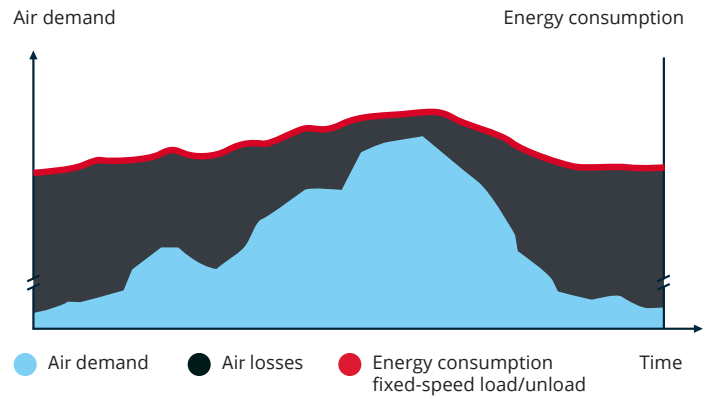
Over 80% of a compressor's lifecycle cost is taken up by the energy it consumes. Moreover, the generation of compressed air can account for more than 40% of a plant's total electricity bill. To cut your energy costs, Atlas Copco pioneered Variable Speed Drive+ (VSD+) technology in the compressed air industry. VSD+ leads to major energy savings, while protecting the environment for future generations. Thanks to continual investments in this technology, Atlas Copco offers the widest range of integrated VSD+ compressors on the market.

Why Atlas Copco Variable Speed Drive+ technology?

- Up to 50% energy savings with an extensive flow range (20-100%).
- Integrated Elektronikon Touch 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 (2014/30/EU).

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

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.



GA Fixed-Speed



GA VSD+

● Investment

● Energy

● Maintenance

Up to 50% energy savings

Atlas Copco's GA VSD+ technology closely follows the air demand by automatically adjusting the motor speed. This results in up to 50% energy savings. In addition, lowered system pressure with GA VSD+ dramatically minimizes energy use across your production.

GA 30+-75+: Smart performance

The GA 30+-75+ is our fixed-speed oil-injected rotary screw compressor that sets the industry standard. It gives you more of the things that really matter: more energy savings, more air, and a longer lifetime. Its state-of-the-art compression element and a host of advanced features ensure maximum performance with best-in-class efficiency.

1

Maintenance-free drive system

- 100% maintenance-free; totally enclosed and protected against dirt and dust.
- No coupling or slippage losses.
- Standard up to 46 °C/115 °F; high ambient version 55 °C/131 °F.
- Works reliably in harsh environments.

New state-of-the-art hybrid bearings extend the lifetime of the drivetrain by 33% (GA 55+-75+).

2

IE4/NEMA Super Premium Efficiency motors

- IP55, insulation Class F, B rise.
- Oil-lubricated drive side bearings.
- Designed for continuous operation in harsh environments.

3

Robust spin-on oil filter

- High efficiency; removes 300% smaller particles than a conventional filter.
- Integrated bypass valve with the oil filter.
- 8,000-hour service interval (GA 55+/GA 75+).

4

(Smart) no-loss drain

- No-loss electronic drain on GA 30+-45+ monitors condensate build-up and removes liquid only when necessary to avoid air loss.
- Smart no-loss water drain on GA 55+-75+ with automatic removal of condensate, auto-cleaning, and detection of potential issues.





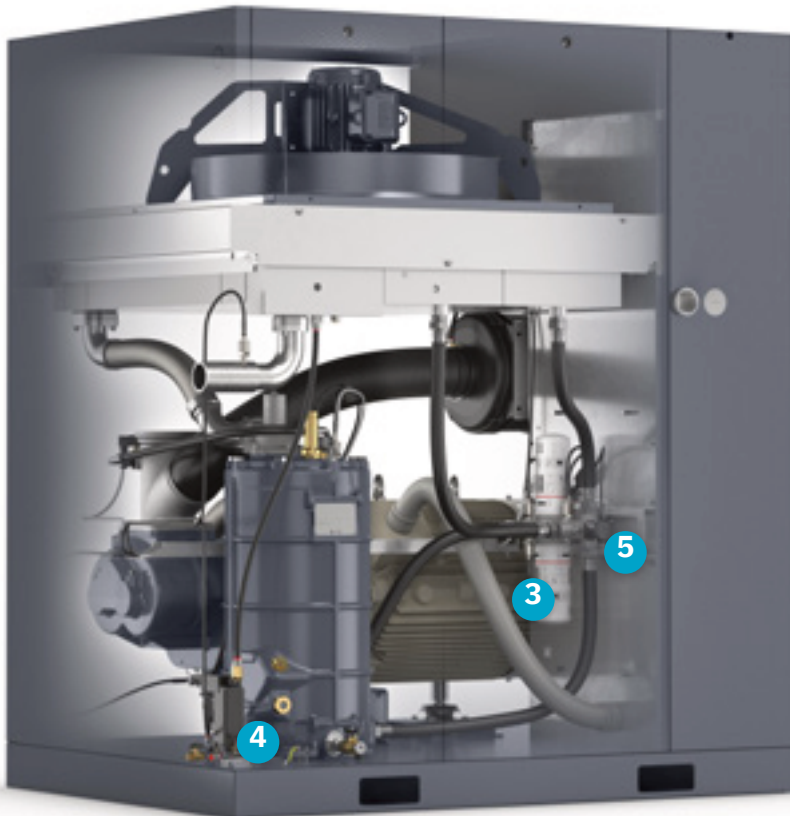
5 Smart Temperature Control System (GA 55+/GA 75+)

An intelligent algorithm calculates the ideal oil-injection temperature based on parameters such as ambient and oil temperature, pressure and load, and air humidity. When necessary, the STC valve routes the oil via the coolers to achieve that ideal temperature to increase compressor efficiency and eliminate the risk of condensation.



6 Intelligent sensors (GA 55+/GA 75+)

- Pressuredrop sensors monitor the lifetime of the inlet filter, the oil separator, and the oil filter.
- CAN cables allow for easy updates.



7 Elektronikon Touch for remote monitoring

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

The smart unload algorithm monitors pressure fluctuations in real time to reduce the running time in unload and achieve maximum energy savings.

8 EQ2i

- Multiple compressor control integrated as standard.

9 Heavy-duty air intake filter

- Protects compressor components by removing 99.9% of dirt particles down to 3 microns.
- 8,000-hour lifetime (GA 55+/GA 75+).

GA 37-90: Premium compressor

The GA 37-90 gives you that trusted Atlas Copco oil-injected screw performance at the lowest investment cost. Built with top-quality materials, the GA 37-90 ensures compressed air reliability and efficiency in the toughest conditions.

1

Maintenance-free drive system

- 100% maintenance-free; totally enclosed and protected against dirt and dust.
- New state-of-the-art hybrid bearings extend the lifetime of the drive train by 33% (GA 55-90).
- No coupling or slippage losses.
- Standard up to 46 °C/115 °F and for high ambient version 55 °C/131 °F.

2

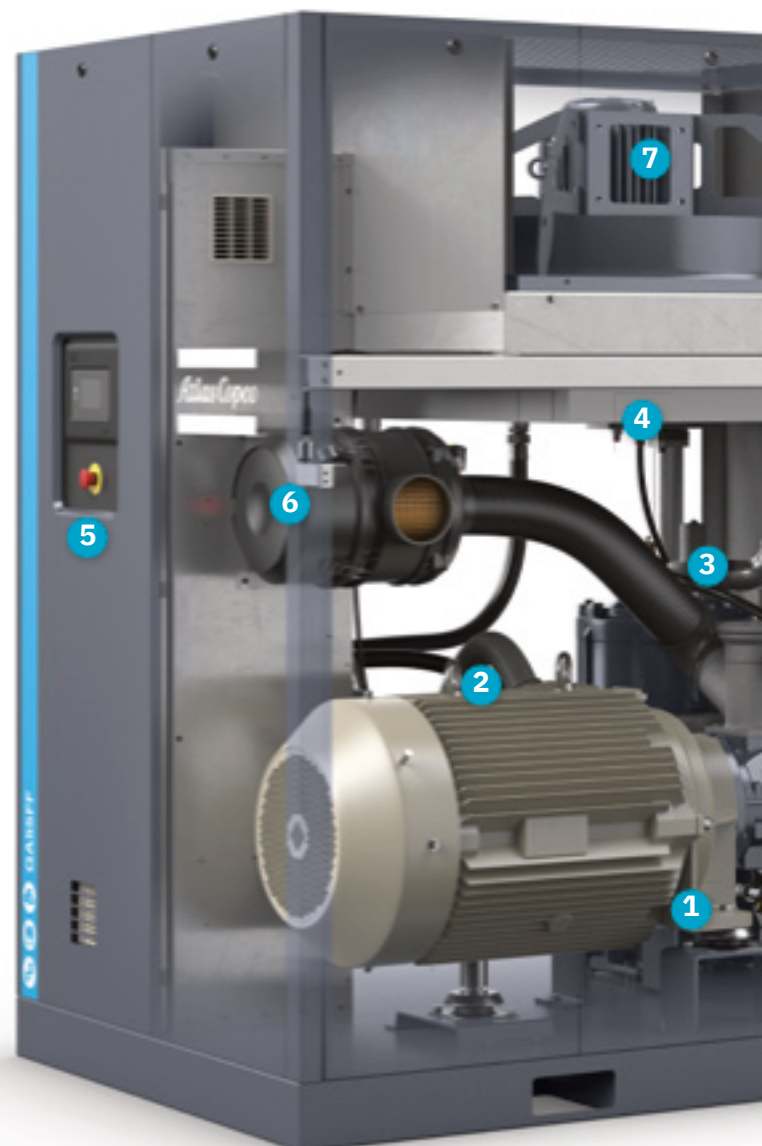
Super Premium Efficiency electrical motor

- IE4 efficiency motor (GA 55-90).
- IP55, insulation Class F, B rise.
- Non-drive side bearing greased for life.
- Oil-lubricated drive side bearings.
- Designed for continuous operation in harsh environments.

3

Robust spin-on oil filter

- High efficiency; removes 300% smaller particles than a conventional filter.
- Integrated bypass valve with the oil filter.



4

Oil cooler and aftercooler for tropical environments

- Low element outlet temperatures, ensuring long oil lifetime.
- Removal of nearly 100% of condensate by integrated mechanical separator.
- No consumables.
- Eliminates possibility of thermal shocks in coolers.



5

Advanced Elektronikon control & monitoring

- Easy to use and designed to perform in the toughest conditions.
- Monitoring features include warning indications, maintenance scheduling, and online visualization of machine conditions.
- Standard SMARTLINK remote monitoring to maximize air system performance and energy savings.

6

Heavy-duty air intake filter

- Protects the compressor components by removing 99.9% of dirt particles down to 3 microns.
- Differential inlet pressure for proactive maintenance while minimizing pressure drop.

7

Low noise fan

- Silent operation.
- High flows.
- Compact design.

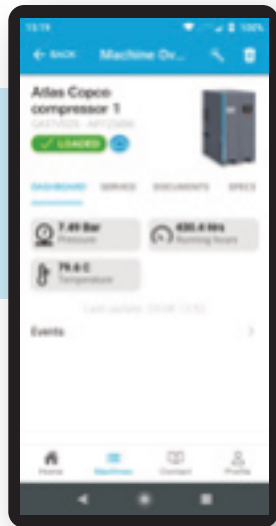
8

Integrated dryer

- Excellence in air quality.
- 50% reduction in energy consumption compared to traditional dryers.
- Zero ozone depletion.
- Incorporates optional UD+ filter according to Class 1.4.2.

As connected as you will be

When it comes to connectivity, manufacturing equipment has long stayed 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.



Elektronikon Touch (optional for GA 37/GA 45)

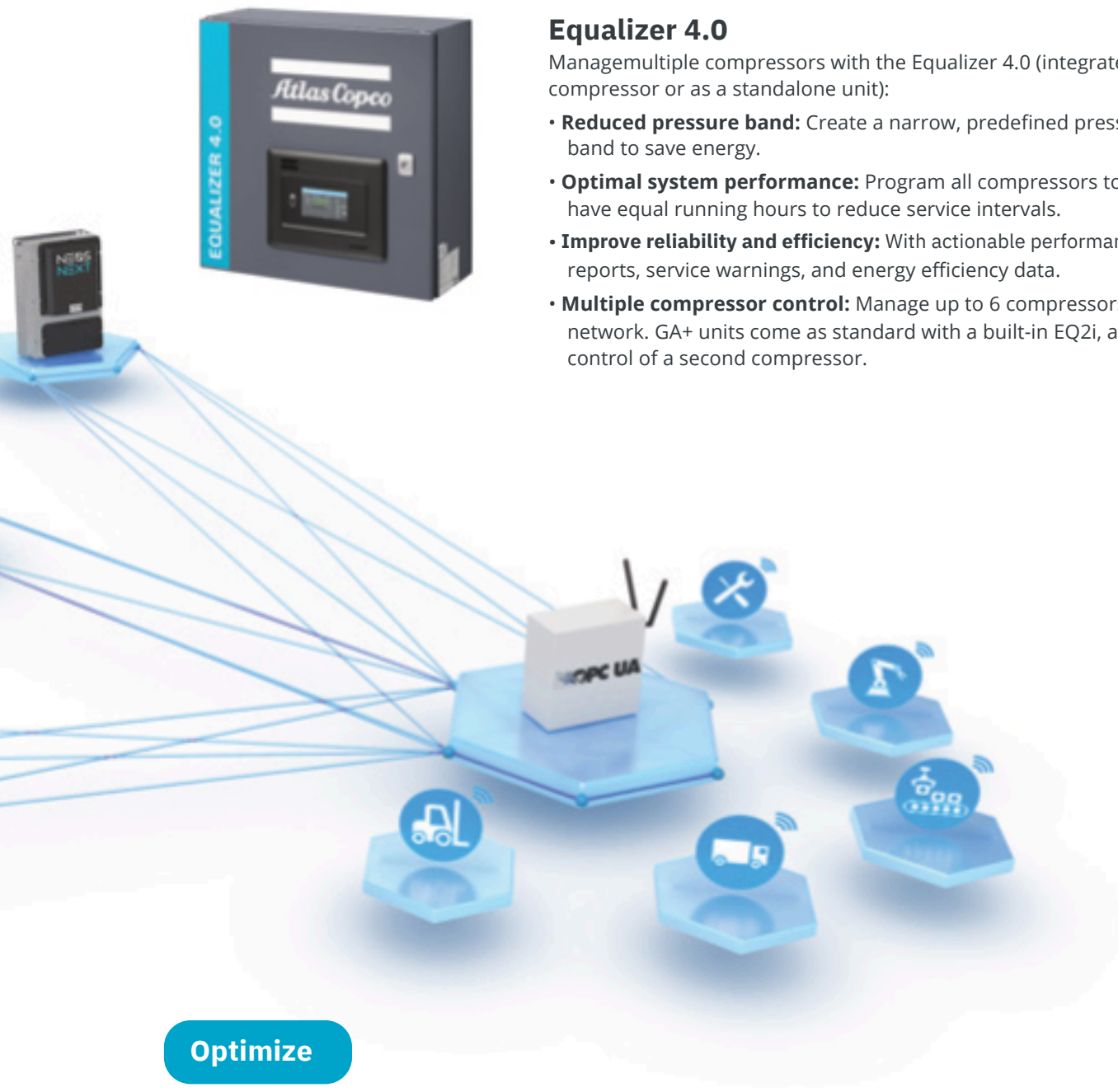
The Elektronikon Touch features a 4.3-inch user-friendly, multilingual display with clear pictograms and a service indicator. The operating system offers a host of control and monitoring options and smart algorithms to optimize your compressor performance. Customized timers and efficiency controls are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

Manage

Equalizer 4.0

Manage multiple compressors with the Equalizer 4.0 (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. GA+ units come as standard with a built-in EQ2i, allowing the control of a second compressor.



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

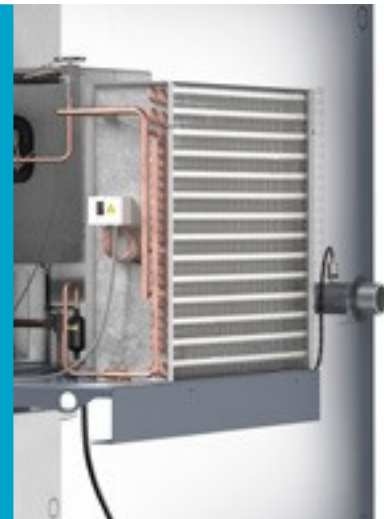
Untreated compressed air contains moisture and aerosols that increase the risk of corrosion and compressed air system leaks. This can result in a damaged air system and contaminated end products. An air dryer is therefore essential to protect your systems and processes. The GA, GA+ and GA VSD+ compressors have an integrated dryer option to ensure your peace of mind.

Integrated dry air

- Optimized sizing for the compressor, avoiding excessive energy consumption.
- New oversized dryer option to ensure a low PDP in the toughest conditions (GA 55-90/ GA 55+-75+).
- Fit for your application.
- Controlled and monitored by the Elektronikon.
- Space-saving all-in-one solution with low installation costs.

Lowest lifecycle costs and peace of mind

- No extra installation costs.
- Save on floor space.
- Use of energy-efficient, environmentally friendly refrigerant reduces operating costs and stands for zero ozone depletion.
- Heat exchanger cross-flow technology with low pressure drop, saving energy and costs.
- Zero waste of compressed air thanks to no-loss condensate drain.
- Advanced control functions ensure dry air under all circumstances and prevent freezing at low load.
- Pressure dewpoint of 3°C/37°F (at 20°C/68°F).



Integrated purity

The optional UD+ filter and integrated refrigerant air dryer (IFD) efficiently remove moisture, aerosols and dirt particles to protect your investment. The UD+ filter has a 40% lower pressure drop than the conventional DD+/PD+ filter combination. It saves space and reduces energy costs. Using only 1 single filter it is possible to reach Quality Class 1.4.2 according to ISO 8573-1:2010.

	ISO QUALITY CLASS*	DIRT PARTICLE SIZE	WATER PRESSURE DEWPOINT**	OIL CONCENTRATION
Pack compressor	3.-4	5 microns	-	3 ppm
Integrated refrigerant dryer	3.4.4	5 microns	+3°C/37°F	3 ppm
DD+	2.4.2	1 micron	+3°C/37°F	0.1 ppm
UD+	1.4.2	0.5 micron	+3°C/37°F	0.1 ppm

* The table values reflect the maximum limits according to the ISO quality air standard (ISO 8573-1:2010).
 ** Water pressure dewpoint based on 100% RH at 20°C/68°F.

Built-in energy recovery

All electrical energy used by a compressed air system is converted into heat. Why let that heat go to waste? A specifically developed energy recovery system can be built into your GA, GA+, and GA VSD+, allowing you to recover up to 75% of that power input as hot air or hot water (e.g.: changing room showers). Through efficient use of the recovered energy, you generate important energy cost savings and a high return on investment without compromising your compressor's performance.

Use your compressor twice

Hot water

Convert compressor heat into hot water for:

- Radiators
- Laundries, industrial cleaning and sanitary facilities
- Industrial process heating
- Canteens and large kitchens
- Food, chemical and pharmaceutical industries



Ducting

Recovered hot air can be used for:

- Auxiliary or main heating of warehouses and workshops
- Drying processes



Optimize your system

Some applications may need or may benefit from additional options and more refined control/air treatment systems. To meet these needs, Atlas Copco has developed options and easily integrated compatible equipment.

		GA 37-45	GA 55-90	GA 30+	GA 37+-45+	GA 55+-75+	GA 37L-110 VSD+
Air treatment	UD+ filter*	•	•			•	•
	Oversized dryer*	-	•	-	-	•	-
	Dryer bypass*	-		-	-		-
Condensate	Electronic water drain	-	•	Standard	Standard	Standard	Standard
Protection	Pre-filter	•	•	•	•	•	•
	Heavy duty inlet filter	Standard	Standard	Standard	Standard	Standard	Standard
	High ambient version (55°C/131°F)****	•	•	•	•		•
	Tropical thermostat		•		•	STC	
	Freeze protection	-	•	-	•	•	-
	Water shut-off valve**	-	•	-	•	•	-
	Anti-condensation heaters	-	•	-		•	-
	Phase sequence relay	-	•	-	-	•	-
	Nema4	-	•	-	•	•	-
	Nema4x	-	•	-	•	•	-
	Oil containing frame	•	•	•	•	•	-
	Rain protection	•		•			
	Communication	OPC UA	-	-	-	•	•
Elektronikon controller expansion module		•	Standard	Standard	•	•	•
Elektronikon Touch upgrade			Standard	-	Standard	Standard	Standard
ES 100 relay***		-	•	•	•	Standard	-
EQ2i		•	•	•	•	Standard	•
EQ4i, EQ6i						•	•
Oils	RS Foodgrade Ultra oil	•	•	•	•	•	•
	Roto Synthetic xtend oil	•	•	•	•	Standard	•
General options	Water-cooled version	-	•	-	•	•	•
	Energy Recovery	•	•	•	•	•	•
	Power duct fan	-	•	-	•	•	•
	Oversized motor*****	-	•	-	-	•	-
	Advanced service monitoring	-	•	-	-	Standard	-
	Modulating control	•	•	•	•	•	-
	ANSI Flange	•	•	•	•	•	-
	DIN Flange	•	•	•	•	•	-
	IT ancilleries	-	•	-	•	-	•
	Test certificate		-			-	•
Public works	Lifting device	•	•	•	•	•	-
	Main switch	-	•	-	•	•	-

* FF units only.

** Water-cooled units.

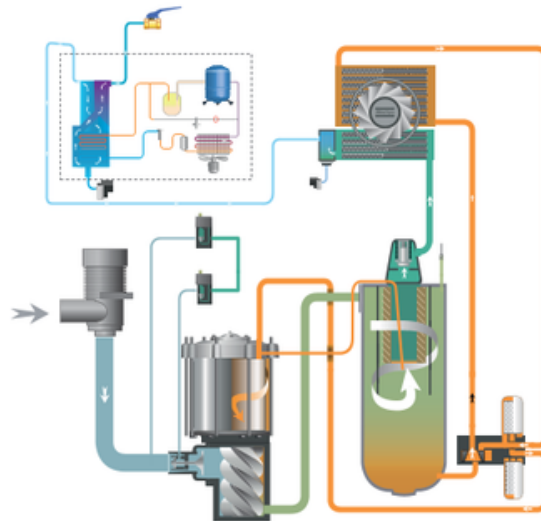
*** Includes potential-free contacts: motor running, compressor load/unload.

**** FF units limited to 50°C/122°F on some models.

***** 55-75 kW only.

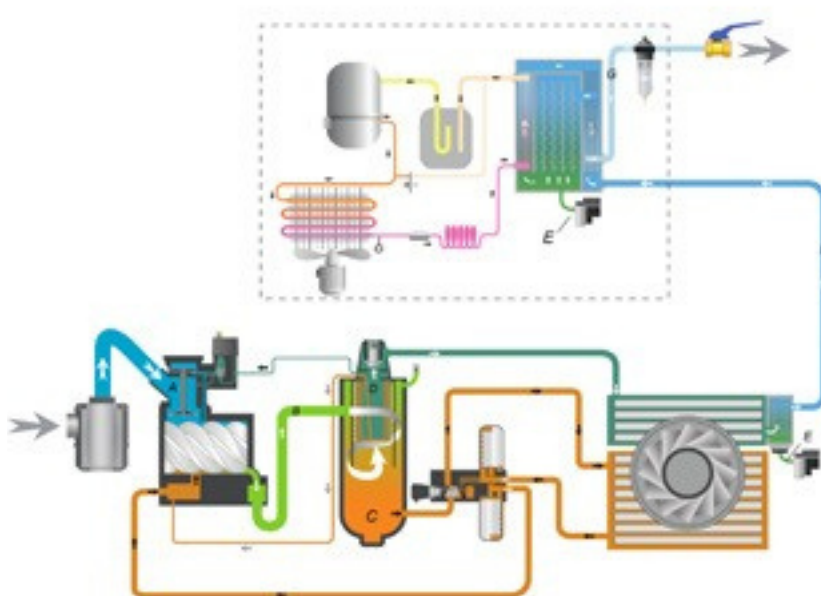
• : Optional - : Not available

Variable Speed Drive: GA VSD+



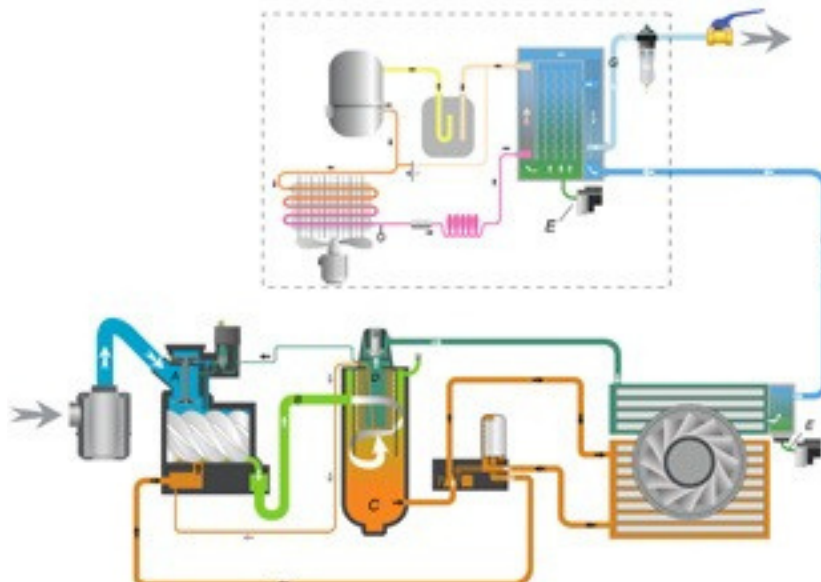
- Compressed air without free water
- Wet compressed air
- Condensate
- Dry compressed air
- Intake air
- Air/oil mixture
- Oil

Fixed-speed: GA+



- A ● Intake air
- B ● Air/oil mixture
- C ● Oil
- D ● Hot compressed air
- E ● Condensate
- F ● Cooled compressed air
- G ● Dried compressed air

Fixed-speed: GA



- A ● Intake air
- B ● Air/oil mixture
- C ● Oil
- D ● Hot compressed air
- E ● Condensate
- F ● Cooled compressed air
- G ● Dried compressed air