Atlas Copco

Oil-injected rotary screw compressors
G 110-250 (110-250 kW / 150-340 hp)

Sustainable Productivity

Atlas Copco

Reliable technology in a robust design

Atlas Copco has a long, successful history of designing and building rugged and reliable air compressors to provide compressed air even in the harshest conditions. The G 110-250 air compressors are designed according to this proud tradition. Their filtration process produces reliable compressed air to avoid costly downtime and production delays. Their robust design ensures processes will function continuously even in dusty and harsh conditions. Furthermore, G 110-250 air compressors are easy to install and use: they require minimal on-site installation work while operation and maintenance are simple.

Cement industry

Reliability in a dusty environment

Compressed air is used for a variety of applications in the cement industry. These include dust collectors, air knives, pneumatic clutches, pneumatic actuators and dust bag filtration systems. Whatever the application, absolute reliability in extremely dusty environments is essential. Thanks to the ultra-reliability of Atlas Copco's G 110-250 air compressors, the cement production lines will stay up and running, day in, day out.

Mining industry

Robustness and reliability

Compressed air is vital for the mining industry, especially underground where other types of energy could lead to an explosion hazard. Applications include dust bag filtration, service air, ventilation air, and pneumatic tools such as rock drilling hammers and chisels. The reliability and robustness of G 110-250 air compressors will help to successfully accomplish the job even in the harshest underground or surface conditions.

Power plants

Smooth and cost-effective operation

Power plants run round-the-clock to supply vital energy to industry and consumers. A continuous supply of compressed air for a variety of applications is absolutely critical for trouble-free operation. G 110-250 compressors provide a reliable source of compressed air for power plant applications such as silt blowing and fly ash handling.

General industry

A safe and reliable power source

Around three-quarters of all industrial companies use compressed air in their daily operations. Applications include pneumatic tools for cutting, drilling, hammering and grinding; pneumatic actuators and valves; ventilation systems; packing and palleting machinery; paint sprayers; and conveyor systems. Atlas Copco's G 110-250 compressors are designed for ultimate performance and reliability for all general industrial applications, at a very competitive operating cost.

High reliability

A reliable supply of compressed air is essential to make sure that production runs smoothly and efficiently. High-end features and generous safety margins stand for high reliability and continuous production. Heavy-duty air filters remove dust, maximize the lifetime of parts and ensure reliable operation.

High efficiency

G 110-250 air compressors are designed to be highly energy efficient. The superior screw element provides the optimum combination of maximum free air delivery and low energy consumption. The state-of-the-art compressor element is powered by Efficiency class 1/NEMA EPAct electric motors, contributing to maximum package efficiency. The ES multiple compressor controller leads to further energy savings by reducing the pressure band. Optional optimizers automatically select the most efficient mix of compressors and ensure continuous electrical power optimization.

Easy installation, use and maintenance

G 110-250 compressors are truly plug-and-run machines. Installation, operation and maintenance are simple. Complex connections or in-depth technical knowledge are unnecessary. Just put the compressor on a flat floor, connect the power supply and the pipe connections and press the start button to run the compressor.

Assuring your peace of mind

Through continuous investment in our competent, committed and efficient service organization, Atlas Copco ensures superior customer value by maximizing productivity. With a presence in over 170 countries, we offer professional and timely service through interaction and involvement. Uptime is ensured by dedicated technicians and 24/7 availability.

G 110-250: Reliability, efficiency and simplicity

1 High-efficiency motor

- TEFPC IP55 motor (Class F insulation B rise) protects against dust and chemicals.
- Long-term stable operation even in harsh environments up to 46°C (115°F).

2 Easy to install, use and service

- Standard container: easy installation and no foundations needed.
- Completely integrated, silenced package (max. 78 dB(A)).
- Easy to transport and simple maintenance.

3 Reliable unloading/loading valve

- Assures constant optimized pressure in the system resulting in high energy savings.
- Simple, maintenance-free set-up with few moving parts.

4 Efficient air-oil separation

- Reduction of pressure drops and energy costs.
- Low oil consumption ensures minimal maintenance costs and long compressor lifetime.

5 State-of-the-art screw element

- Patented asymmetric element profile and innovatively designed bearings offer low wear and high reliability.
- Thanks to the perfect performance of the screw element, energy consumption is reduced by 5-6%.

6 Superior air filtration

- Two-stage dust removal and filtering system with efficiency of up to 99.9% even in heavy-duty environments (particles ≥ 3 micron).
- Protects compressor parts and components, ensures air quality and extends the service life of the overall air system.

7 Heavy-duty oil filter

- Outstanding oil purification capability ensures a clean compressor oil system.
- High reliability of screws, bearings and gears in harsh environments.
- Long service period and easy and quick filter change reduce maintenance costs.

8 Air-water separator (standard)

- Aftercooler with integrated air-water separator efficiently separates condensate and provides high quality compressed air.
- Large-sized water outlet avoids risk of clogging and ensures worry-free operation.

A step ahead in control and monitoring

Being able to control and monitor your compressed air system has considerable advantages. The complete G 110-250 range offers a great variety of features that lower energy costs, reduce maintenance time and costs, and limit stress on the entire air system.

Elektronikon® controller

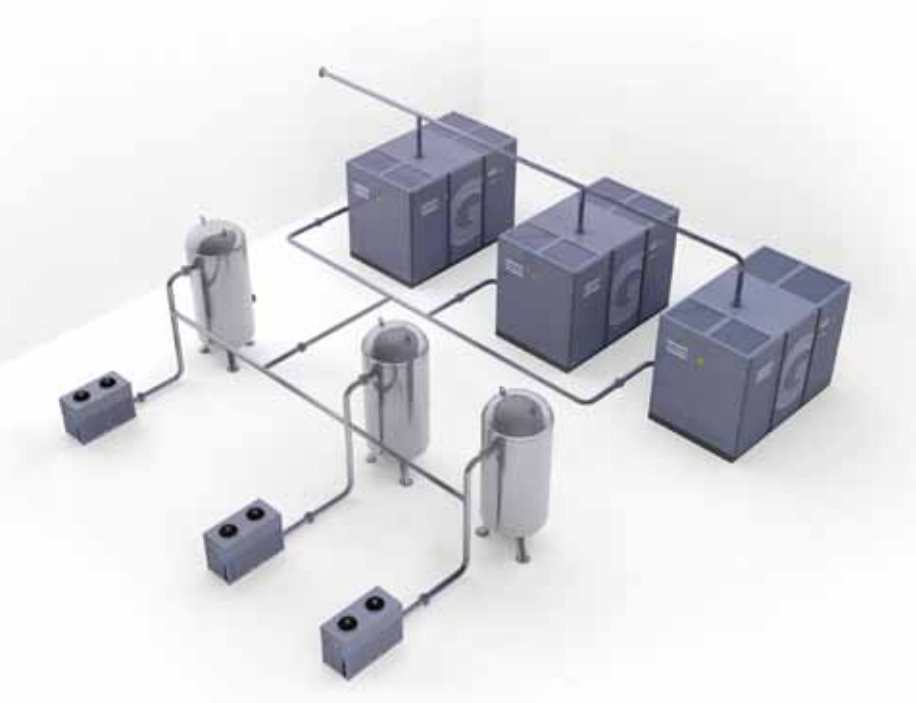
- User-friendly: intuitive navigation system.
- Continuous and accurate monitoring of the compressor's operating parameters.
- Reliable, durable keyboard.

ES – Multi-control, multi-benefits

- Automatic selection of the most efficient mix of compressors to run.
- Elimination of blow-off regulation.
- Continuous electrical power optimization.

Protect your performance & production

Untreated compressed air contains moisture and possibly dust particles that can damage your air system and contaminate your end product. That is why Atlas Copco provides a complete range of air treatment solutions to protect investments, equipment, production processes and end products.



Increase production reliability and safeguard quality

The air treatment solutions produce clean, dry air to enhance your system's reliability, avoid costly downtime and production delays and protect your production and reputation on the market. Building on know-how and years of experience, the entire Atlas Copco quality air range is produced in-house and tested using the most stringent methods in the industry. Taking technology to a new level, these products achieve maximum energy and cost savings.

Optimize your system

Scope of supply

Air circuit

- Air inlet filter and flexibles
- Air intake valve
- Full load/no load regulator
- Long lifetime filtration and separation elements

Oil circuit

- Heavy-duty oil filters
- Complete oil circuit system
- Air-oil separator

Cooling circuit

- Compressed air aftercooler and oil cooler
- Low noise cooling fan for air-cooled units
- Complete air, oil and water circuit system
- Integrated water separator
- Water drains with no loss of compressed air
- Shell and tube type coolers (corrosion resistant) for water-cooled units

Electrical components

- TEFC IP55 Class F electric motor
- Starters (Star-Delta)
- Pre-mounted electrical cubicles
- Elektronikon® control system

Framework

- Structural skid with no need for foundations
- Silenced canopy
- Flexible vibration dampers

Mechanical approval

- ASME approval
- CE approval
- Other country specific approvals

Additional features & options

Options	G 110-160	G 200-250
Full Feature unit: with ID integrated dryer	–	■
Full Feature: integrated DD pre-filter (only in combination with the integrated refrigerant dryer)	–	■
Phase sequence relay	–	■
PT1000 the main motor windings and bearings	■	■
Anti-condensation heater in the main motor	■	■
Roto X-tend fluid 8000 h oil	–	■
NPT/ANSI connections	–	■
Anchor pads	–	■
Performance test certificate	■	■
Witness performance test	–	■
Material certificates	■	■
Seaworthy packaging	■	■
SPM vibration monitoring system	■	■
Energy recovery	■	–
Integrated oil-water condensate separator (effluent purity of 10 mg oil/liter of condensate)	–	■
Electronic water drain EWD	–	■
Phase sequence relay	–	■
Tube oil / aftercoolers (only for water-cooled machines)	–	■

■ *Available*
– *Not available*

** Consult Atlas Copco for performances and applications of options.*

Technical specifications G 110-250

Compressor type	Maximum working pressure				Capacity FAD [1]			Installed motor power		Noise level [2]	Weight (shipping mass)			
	Standard		Full Feature		Standard / Full Feature						Standard		Full Feature	
	bar(e)	psig	bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
50 Hz VERSION														
G 110 - 7.5	7.5	109	–	–	334	20.0	708	110	150	74	3000	6614	–	–
G 110 - 8.5	8.5	123	–	–	313	18.8	662	110	150	74	3000	6614	–	–
G 110 - 10	10.0	145	–	–	284	17.0	603	110	150	74	3000	6614	–	–
G 110 - 14	14.0	203	–	–	231	13.9	488	110	150	74	3000	6614	–	–
G 132 - 7.5	7.5	109	–	–	401	24.1	850	132	175	74	3830	8444	–	–
G 132 - 8.5	8.5	123	–	–	381	22.9	807	132	175	74	3830	8444	–	–
G 132 - 10	10.0	145	–	–	350	21.0	741	132	175	74	3830	8444	–	–
G 132 - 14	14.0	203	–	–	280	16.8	592	132	175	74	3830	8444	–	–
G 160 - 7.5	7.5	109	–	–	506	30.4	1072	160	215	74	3830	8444	–	–
G 160 - 8.5	8.5	123	–	–	482	28.9	1022	160	215	74	3830	8444	–	–
G 160 - 10	10.0	145	–	–	446	26.8	945	160	215	74	3830	8444	–	–
G 160 - 14	14.0	203	–	–	361	21.7	764	160	215	74	3830	8444	–	–
G 200 - 7.5	7.5	109	7.3	106	592	35.5	1254	200	270	77	5405	11916	5805	12798
G 200 - 8.5	8.5	123	8.3	120	545	32.7	1155	200	270	77	5405	11916	5805	12798
G 200 - 10	10.0	145	9.8	142	513	30.8	1087	200	270	77	5405	11916	5805	12798
G 250 - 7.5	7.5	109	7.3	106	681	40.9	1443	250	335	77	5695	12555	6095	13437
G 250 - 8.5	8.5	123	8.3	120	667	40.0	1413	250	335	77	5695	12555	6095	13437
G 250 - 10	10.0	145	9.8	142	626	37.7	1326	250	335	77	5695	12555	6095	13437

Compressor type	Maximum working pressure				Capacity FAD [1]			Installed motor power		Noise level [2]	Weight (shipping mass)			
	Standard		Full Feature		Standard / Full Feature						Standard		Full Feature	
	bar(e)	psig	bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
60 Hz VERSION														
G 110 - 100	7.4	107	–	–	350	21.0	742	110	150	74	3000	6614	–	–
G 110 - 125	9.1	132	–	–	320	19.2	678	110	150	74	3000	6614	–	–
G 110 - 150	10.9	158	–	–	287	17.2	608	110	150	74	3000	6614	–	–
G 110 - 200	14	203	–	–	246	14.8	521	110	150	74	3000	6614	–	–
G 132 - 100	7.4	107	–	–	404	24.2	856	132	175	74	3830	8444	–	–
G 132 - 125	9.1	132	–	–	369	22.1	782	132	175	74	3830	8444	–	–
G 132 - 150	10.9	158	–	–	337	20.2	714	132	175	74	3830	8444	–	–
G 132 - 200	14	203	–	–	282	16.9	598	132	175	74	3830	8444	–	–
G 160 - 100	7.4	107	–	–	477	28.6	1011	150	200	74	3830	8444	–	–
G 160 - 125	9.1	132	–	–	439	26.3	930	150	200	74	3830	8444	–	–
G 160 - 150	10.9	158	–	–	397	23.8	841	150	200	74	3830	8444	–	–
G 160 - 200	14	203	–	–	336	20.1	712	150	200	74	3830	8444	–	–
G 200 - 100	7.4	107	7.2	104	586	35.2	1242	185	250	78	5405	11916	5805	12798
G 200 - 125	9.1	132	8.9	129	525	31.5	1112	185	250	78	5405	11916	5805	12798
G 200 - 150	10.9	158	10.7	155	483	29.0	1023	185	250	78	5405	11916	5805	12798
G 250 - 100	7.4	107	7.2	104	650	39.0	1377	225	300	78	5635	12423	6035	13305
G 250 - 125	9.1	132	8.9	129	616	37.0	1305	225	300	78	5635	12423	6035	13305
G 250 - 150	10.9	158	10.7	155	569	34.1	1206	225	300	78	5635	12423	6035	13305

(1) Unit performance : Measured according to ISO 1217, Ed. 3, Annex C - 1996
(2) Noise level : Measured according to ISO 2151: 2004 using ISO 9614/2

Reference conditions:

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

FAD is measured at the following working pressures:

- 7.5 bar variants at 7 bar
- 8.5 bar variants at 8 bar
- 10 bar variants at 9.5 bar
- 14 bar variants at 13.5 bar
- 75 psi variants at 73 psi
- 100 psi variants at 100 psi
- 125 psi variants at 125 psi
- 150 psi variants at 150 psi

Dimensions						
Compressor type	Standard/air/water-cooled Pack/FF					
	L		W		H	
	mm	inch	mm	inch	mm	inch
G 110	2779	110	1720	68	2010	79
G 132-160	2779	110	2005	79	2010	79
G 200-250	3386	133	2120	83	2400	94

Driven by innovation

With more than 135 years of innovation and experience, Atlas Copco will deliver the products and services to help maximize your company's efficiency and productivity. As an industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous innovation, we strive to safeguard your bottom line and bring you peace of mind.

Building on interaction

As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.

A committed business partner

With a presence in over 170 countries, we will deliver high-quality customer service anywhere, anytime. Our highly skilled technicians are available 24/7 and are supported by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. We are committed to providing the best possible know-how and technology to help your company produce, grow, and succeed. With Atlas Copco you can rest assured that your superior productivity is our first concern!

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