

# Atlas Copco

## Oil-injected Rotary Screw Compressors



**G200-250**  
250-300 hp / 200-250 kW



# Built to last



## CHOICE

Atlas Copco masters every principle of your air system and offers the most energy-efficient solution for each application.



## TAILORING

Atlas Copco has the industry's broadest portfolio of offerings to help you achieve the most efficient compressed air system for your needs, and optimize your production process at the same time.



## FOLLOW-UP

Tailored service contracts and state-of-the-art add-ons make sure you get the right maintenance, immediate response and genuine spare parts – anywhere in the world.



## BUILT TO LAST

Every G is designed, manufactured and tested to comply with ISO 9001, ISO 14001 and ISO 1217 standards. It uses the latest generation of Atlas Copco's oil-injected screw element, ensuring a long and trouble-free life at the lowest possible operating cost. Engineered for reliable service, even in ambient temperatures up to 105°F/40°C and very harsh environmental conditions, the G takes reliability to a new level.



## EASY INSTALLATION AND MAINTENANCE

G compressors are delivered ready to use and designed for trouble-free maintenance. The oil and air filters are easily accessible and cooler cleaning procedures are simple.



## TOTAL CONTROL

From the Elektronikon® compressor controller to the ES compressor room controller, Atlas Copco uses the most advanced algorithms designed to reduce your energy costs and ensure your peace of mind by keeping reliability at the maximum level.



## PROTECTING YOUR PRODUCTION

Clean dry air expands the lifetime of your equipment and protects your investment. The new built-in refrigerant dryer ensures a lower dew point, which is reflected in higher efficiency.



# A state-of-the-art integrated solution

Reliable and built to last, the G200-250 compressors are designed to provide high quality compressed air even under harsh conditions. Thanks to Atlas Copco's long-standing experience and pioneering innovations, there's a G compressor available to cut costs and enable smooth, continuous operation for all of your production processes.

## BUILT TO LAST

- The G series' screw element features an asymmetric rotor profile and meticulous bearing selection to ensure low wear and tear and increased reliability.
- All compressors feature TEFC (IP55) motors designed for continuous operation under severe ambient temperature conditions up to 104°F/40°C.

## PROTECTING YOUR PRODUCTION

- The aftercooler with integrated water separator immediately removes 100% of the condensate, delivering a higher quality of air than conventional external separators with typically low efficiencies (40-90%). This protects the downstream equipment from corrosion and water damage.
- The G200-250 is also available with integrated refrigerant dryers and filters (Full Feature variant).

## LOW MAINTENANCE COSTS

- The heavy duty air inlet filter features a pre-separation cyclone which reduces the dust load in the fine filter, doubling the filter element lifetime without reducing filter efficiency.
- The high efficiency air/oil separation system consists of a 2-step separation system providing low residual oil content in the compressed air. Low oil consumption ensures low maintenance costs and longer up time.
- Condensate is constantly removed from the water drains. A large diameter drain port removes the potential for clogging, providing trouble-free operation and minimal maintenance.
- Replacement of the heavy duty oil filter is simple and quick.

## LOWERED INSTALLATION COSTS

- Totally assembled compressor package. No need to assemble loose shipped components. Simply connect a power supply, compressed air piping, and cooling water piping (for the water cooled version) and the compressor is ready to work.



# Protecting your production

Untreated compressed air contains moisture, aerosols and dirt particles that can damage your air system and contaminate your end product. Resulting maintenance costs can far exceed air treatment costs. We believe in effective prevention.



## INCREASE YOUR PRODUCTION RELIABILITY

Low quality air heightens the risk of corrosion in your system, which can lower the life span of your air tools and production equipment. The G's filtration process produces clean air that enhances your system's reliability, avoiding costly downtime and production delays.



## SAFEGUARD YOUR PRODUCT QUALITY

Compressed air coming into contact with your final products should not affect their quality. The G provides the clean, dry air that will protect your product's reputation in the marketplace.



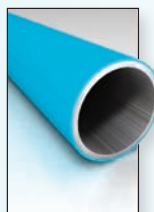
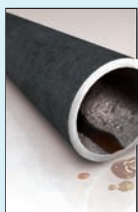
## DRIVING DOWN ENERGY COSTS

Clean, treated air reduces the risk of corrosion and leaks in your compressed air system. A 1/8" leak could easily add over \$2,000 to your energy bill annually.



## PROTECT THE ENVIRONMENT

With leaks and energy waste minimized and the unsafe disposal of untreated condensate eliminated, you can safeguard the environment and comply with stringent international regulations.



## INTEGRATED PURITY

The filters and integrated refrigerant-type air dryer (IFD) efficiently remove moisture, aerosols and dirt particles to protect your investment. This quality air extends the life of equipment, increasing efficiency and ensuring quality in your final product.

CONFIGURE YOUR G FOR THE AIR QUALITY YOU NEED		ISO QUALITY CLASS	DIRT PARTICLE SIZE	WATER PRESSURE DEW POINT	OIL CONCENTRATION
	G	3.-4	3 microns	-	3 ppm
	G FF with ID	3.4.4	3 microns	37°F, +3°C	3 ppm
	G FF with ID & general purpose coalescing filter	2.4.2	1 micron	37°F, +3°C	0.1 ppm

# Total control, assured efficiency

The Elektronikon® operating system provides control and monitoring to increase your compressor's efficiency and reliability. Easily expandable with extra sensors, digital inputs and internet communication functions, the Elektronikon® can be adapted to your specific needs – offering simple, central monitoring and control of up to four compressors. For optimal

ease of use, the display can be set to 27 different languages. To maximize energy efficiency, the Elektronikon® controls the main drive motor and regulates system pressure within a predefined, narrow pressure band. With a simple push of a button, you can remote start and stop, load and unload the compressor.

# 1

## FULLY OPTIMIZED SYSTEM

The ES Multiple Compressor Control manages up to four compressors simultaneously. The result is a substantial reduction in system pressure and energy consumption, in addition to minimal compressed air leakage and a more stable pressure across the network.



# 2

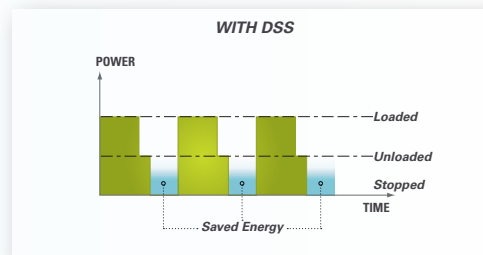
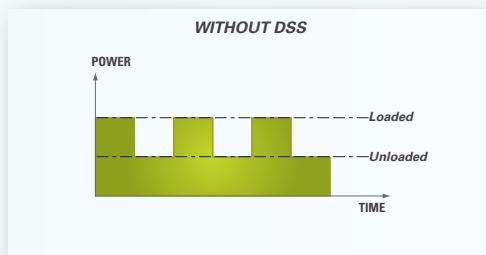
## DUAL PRESSURE SET POINT

The production process creates fluctuating levels of demand which can create energy waste in low use periods. The Elektronikon® can manually or automatically create two different system pressure bands to optimize energy use and reduce costs at low use times.

# 3

## DELAYED SECOND STOP

The sophisticated Delayed Second Stop (DSS) runs the drive motor only when needed. Because the Elektronikon® maintains the desired system pressure while minimizing the drive motor run time, energy consumption is kept at a minimum.



# Complete scope suiting all needs

Included as standard	
Air inlet filter	Starters
Air intake flexible	Pre-mounted electrical cubicles
Air intake valve	Flexible vibration dampers
Compressed air aftercooler and oil cooler	Air / oil separator
Cooling fans for air cooled units	Elektronikon® control system
Integrated water separator	Full load / no load regulation system
Water drains with no loss of compressed air	Silencing canopy
Oil filters	Structural skid with no need for foundations
Complete air, oil, water circuit	Roto-Xtend fluid 8000 h oil
TEFC (IP55) electric motor	NPT / ANSI connections

Available options	
Full Feature: integrated refrigerant dryers	Anchor pads
Full Feature: integrated DD pre-filter (only in combination with the integrated refrigerant dryers)	Performance test certificate
Integrated oil / water condensate separator*	Witnessed performance test
Electronic water drain EWD	Material certificates
Phase sequence relay	Seaworthy packaging
PT1000 thermal protection in the main motor windings and bearings	SPM vibration monitoring system
Anti-condensation heater in the main motor	Tube oil / after coolers (only for water-cooled machines)

\* Effluent purity of 10 mg oil / liter of condensate

# Technical specifications

## G200-250 50 Hz

COMPRESSOR TYPE	Maximum working pressure				Capacity FAD <sup>(1)</sup>			Installed motor power		Noise level <sup>(2)</sup>	Weight (shipping mass)			
	Pack		Full Feature		Pack / FF						Pack		Full Feature	
	bar(e)	psig	bar(e)	psig	l/s	m <sup>3</sup> /min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
G200 - 7.5	7.5	109	7.25	105	592	35.5	1255	200	268	78	5405	11916	5805	12798
G200 - 8.5	8.5	123	8.25	120	545	32.7	1155	200	268	78	5405	11916	5805	12798
G200 - 10	10	145	9.75	141	512	30.7	1085	200	268	78	5405	11916	5805	12798
G250 - 7.5	7.5	109	7.25	105	681	40.9	1444	250	335	78	5695	12555	6095	13437
G250 - 8.5	8.5	123	8.25	120	667	40.0	1414	250	335	78	5695	12555	6095	13437
G250 - 10	10	145	9.75	141	629	37.7	1333	250	335	78	5695	12555	6095	13437

<sup>(1)</sup> **Unit Performance:** measured according to ISO 1270, Ed. 4, Annex C - 2009

**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

<sup>(2)</sup> **Noise Level:** Measured according to ISO 2151: 2004 using ISO 9614/2

## G200-250 60 Hz

COMPRESSOR TYPE	Maximum working pressure				Capacity FAD <sup>(1)</sup>			Installed motor power		Noise level <sup>(2)</sup>	Weight (shipping mass)			
	Pack		Full Feature		Pack / FF						Pack		Full Feature	
	bar(e)	psig	bar(e)	psig	l/s	m <sup>3</sup> /min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
G200 - 100	6.9	100	6.65	96	586	35.2	1242	186	250	79	5405	11916	5805	12798
G200 - 125	9.1	132	8.85	128	525	31.5	1112	186	250	79	5405	11916	5805	12798
G200 - 150	10.8	157	10.55	153	483	29.0	1023	186	250	79	5405	11916	5805	12798
G250 - 100	7.4	107	7.15	104	650	39.0	1377	224	300	79	5635	12423	6035	13305
G250 - 125	9.1	132	8.85	128	616	37.0	1305	224	300	79	5635	12423	6035	13305
G250 - 150	10.8	157	10.55	153	569	34.1	1206	224	300	79	5635	12423	6035	13305

<sup>(1)</sup> **Unit Performance:** measured according to ISO 1270, Ed. 4, Annex C - 2009

**Reference conditions:**

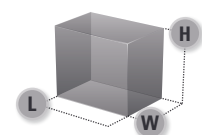
- Absolute inlet pressure 1 bar (14.5 psi)
- Intake air temperature 20°C (68°F)
- Cooling medium temperature 20°C (68°F)

**FAD** is measured at the following working pressures:

- 75 psi variants at 73 psi
- 100 psi variants at 100 psi
- 125 psi variants at 125 psi
- 150 psi variants at 150 psi

<sup>(2)</sup> **Noise Level:** Measured according to ISO 2151: 2004 using ISO 9614/2

Dimensions						
COMPRESSOR TYPE	Air / water-cooled Pack / FF					
	L		W		H	
	mm	inch	mm	inch	mm	inch
G200	3386	133.3	2120	83.5	2400	94.5
G250	3386	133.3	2120	83.5	2400	94.5





### Driven by innovation

With more than 135 years of innovation and experience, Atlas Copco delivers 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

Our commitment to you does not simply end when your Atlas Copco products have been delivered and installed. We have an extensive range of aftermarket services to offer you continued support, whenever you need it. With a presence in over 160 countries, we can deliver high-quality customer service anytime, anywhere. Our highly skilled technicians are available 24/7 to answer any questions you may have. And all of this is backed by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. With Atlas Copco you can rest assured that your sustainable productivity will always be our first concern!

[www.atlascopco.us](http://www.atlascopco.us)

866-344-4887

