Atlas Copco

Oil-injected Rotary Screw Compressors

G 110-160

110-160 kW / 150-200 hp

Atlas Copco

A cost effective compressed air solution

Reliable and built to last, the G 110-160 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 right across your production processes.

BUILT TO LAST

- The G Series' superior screw element's patented asymmetric rotor profile and meticulous bearing selection 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 115°F / 46°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.

DRIVING DOWN ENERGY COSTS

- The G Series' superior screw elements are designed to give the optimum combination of maximum free air delivery for low energy consumption.
- The state-of-the-art compressor element is powered by Efficiency 1 class / NEMA EPAct electric motors, contributing to maximum compressor package efficiency.

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.

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 and 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

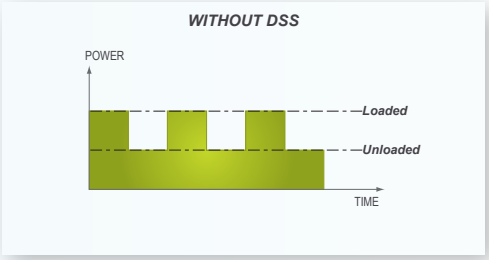
The ES Multiple Compressor Controller manages up to 30 compressors simultaneously. The result is a substantial reduction in system pressure and energy consumption, in addition to minimal compressed air leakage and a more stable pressure across the network.

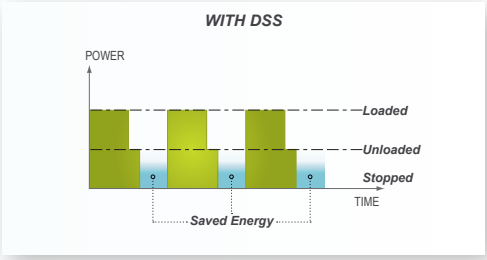
2 DUAL PRESSURE SET POINT

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	
Heavy duty air inlet filter	Starters
Air intake flexible	Pre mounted electrical cubicles
Air intake valve	Flexible vibration dumpers
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
Heavy duty oil filters	Structural skid with no need for foundations
Complete air, oil, water circuit	Roto-Extend 8000h oil
TEFC IP55 Class F electric motor	

Available options / Model	G 110-160
PT1000 thermal protection in the main motor windings and bearings	x
Anti-condensation heater in the main motor	x
Performance test certificate	x
Witnessed performance test	x
Material certificates	x
Seaworthy packaging	x
SPM vibration monitoring system	x

Built to last

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

TAILORING
At Atlas Copco we offer 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.

BUILT TO LAST
Every G is designed, manufactured and tested to comply with ISO 9001, ISO 14001 and ISO 1217 stipulations. 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 115°F /46°C and very harsh environmental circumstances, 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.

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.

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.

Technical specifications
G 110-160

COMPRESSOR TYPE	Maximum working pressure		Capacity FAD (1)			Installed motor power		Noise level (2)	Weight	
	Pack		Pack						Pack	
	bar (e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	kg	lb
60Hz										
G 110 - 100	7.4	107	350	21.0	742	110	150	75	2600	5732
G 110 - 125	9.1	132	320	19.2	678	110	150	75	2600	5732
G 110 - 150	10.9	158	287	17.2	608	110	150	75	2600	5732
G 110 - 200	14	203	246	14.8	521	110	150	75	2600	5732
G 132 - 100	7.4	107	404	24.2	856	132	175	75	3400	7496
G 132 - 125	9.1	132	369	22.1	782	132	175	75	3400	7496
G 132 - 150	10.9	158	337	20.2	714	132	175	75	3400	7496
G 132 - 200	14	203	282	16.9	598	132	175	75	3400	7496
G 160 - 100	7.4	107	477	28.6	1011	150	200	75	3430	7562
G 160 - 125	9.1	132	439	26.3	930	150	200	75	3430	7562
G 160 - 150	10.9	158	397	23.8	841	150	200	75	3430	7562
G 160 - 200	14	203	336	20.2	712	150	200	75	3430	7562

Dimensions						
Compressor type	Air- / water-cooled Pack					
	L		W		H	
	mm	inch	mm	inch	mm	inch
G 110	2799	110.2	1720	67.7	2010	79.1
G 132	2799	110.2	2005	78.9	2010	79.1
G 160	2799	110.2	2005	78.9	2010	79.1

(1) ***Unit Performance*** *Measured according to ISO 1270, Ed. 3, Annex C - 1996*

Reference conditions:
- Absolute inlet pressure 1 bar (14.5 psi)
- Intake air temperature 20ºC (68ºF)
- Cooling medium temperature 20ºC (68ºF)

FAD *is measured at the following working pressures:*
- 100 psi variants at 100 psi
- 125 psi variants at 125 psi
- 150 psi variants at 150 psi
- 200 psi variants at 200 psi

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

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 a global industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous advancements, we strive to safeguard your bottom line and bring you peace of mind.

Local interaction

Atlas Copco Compressors LLC is headquartered in Rock Hill, SC. Our 187,000 sq. ft. manufacturing plant is one of several Atlas Copco production units across the U.S., including a custom design facility in Houston, TX. We take the best possible care of our customers through four regional customer centers and appointed authorized distributors, supported by a 131,000 sq. ft. distribution center and a network of field based personnel throughout the country. Across all of our different business types and brands, Atlas Copco employs approximately 3,300 people in the U.S.

Committed to sustainability

In 2010, Atlas Copco was named one of the Top 100 Sustainable Companies in the World for the fifth consecutive year. Through our Water for All organization, Atlas Copco is committed to supporting projects that supply clean water to those who need it most. Visit www.water4all.org for more information. All Atlas Copco Compressors facilities in the United States are triple certified to ISO 14001, ISO 9001 and OHSAS 18001; a set of standards to protect the environment, ensure product quality, and promote our employees' health and occupational safety.

www.atlascopco.us

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ISO9001 • ISO14001
OHSAS 18001

Danger: Compressed air should never be supplied as breathing air unless air is properly purified for breathing. Atlas Copco assumes no responsibility or liability related to the purchaser's/user's breathing system.

The information contained herein is general in nature and is not intended for specific construction, installation or application purposes.