

High-pressure oil-injected rotary screw compressors

GR 110-200 (FF)
up to 20 bar(e) / 290 psig

Atlas Copco



2-stage high-pressure series

GR oil-injected 2-stage air compressors provide a reliable air supply of up to 20 bar for high-pressure applications in the toughest working conditions. The GR compressor is often used as a mine compressor.



Highly efficient and reliable in tough working conditions

- The 2-stage compression element is proven to increase efficiency and reliability at high pressure.
- Patented high-efficiency 2-stage rotary screw compressors.
- Extended element lifetime due to reduced load on bearings, rotors and gears.
- Reliable operation in hot and dusty environments IP54 motor, large oversized cooler blocks.

Optimal control and efficiency with the Elektronikon® MK5

- High-resolution color display gives you an easy-to-understand readout of the equipment's running conditions.
- Clear icons and intuitive navigation provide you with fast access to all of the important settings and data.
- Monitoring of the equipment running conditions and maintenance status.

Protect your production equipment

- Available with integrated refrigerant dryer (full feature version).
- Standard equipped with a moisture separator.
- Pressure dewpoint of integrated refrigerant dryer at reference conditions: 3°C to 4°C.
- Quality end product and system protection.

Optimize your system

Scope of supply

- Air intake filter
- Air intake valve
- Aftercooler and oil cooler
- Cooling fan or ventilation fan
- Integrated water separator
- Oil filters
- RXD oil – 8,000 hour oil
- Complete air/oil circuit
- IP55, Class F drive motor
- Built-in electrical starter
- Air/oil separator
- Elektronikon® unit controller
- Silencing canopy
- Smartbox

Options

- Full feature – integrated refrigerant dryer
- Modulating control
- Heavy-duty air intake filter
- Phase sequence relay
- PT1000 thermal protection in motor
- Anti-condensation heater for main motor
- ISO/NPT connections
- Anchor pads
- Performance test certificate
- Witness performance test
- Material test certificates
- SPM monitoring
- Seaworthy packing

Technical data

Compressor type	Max. working pressure		Capacity FAD			Installed motor	Noise level	Weight	
	pack	full feature	pack / full feature					pack	full feature
GR 110 2-stage 20 bar									
50 Hz	20 bar(e) 290 psig	19.75 bar(e) 286 psig	211 l/s	12.6 m³/min	447 cfm	110 kW 150 hp	72 dB(A)	3,140 kg 6,908 lb	3,470 kg 7,634 lb
60 Hz	20 bar(e) 290 psig	19.75 bar(e) 286 psig	224 l/s	13.4 m³/min	475 cfm	110 kW 150 hp	72 dB(A)	3,140 kg 6,908 lb	3,470 kg 7,634 lb
GR 200 2-stage 20 bar									
50 Hz	20 bar(e) 290 psig	19.75 bar(e) 286 psig	385 l/s	23.1 m³/min	816 cfm	200 kW 270 hp	72 dB(A)	3,547 kg 7,803 lb	3,877 kg 8,529 lb
60 Hz	20 bar(e) 290 psig	19.75 bar(e) 286 psig	390 l/s	23.4 m³/min	827 cfm	200 kW 270 hp	78 dB(A)	3,547 kg 7,803 lb	3,877 kg 8,529 lb

Unit performance

Measured according to ISO 1217, Annex C, Edition 4 (2009).

Reference conditions

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

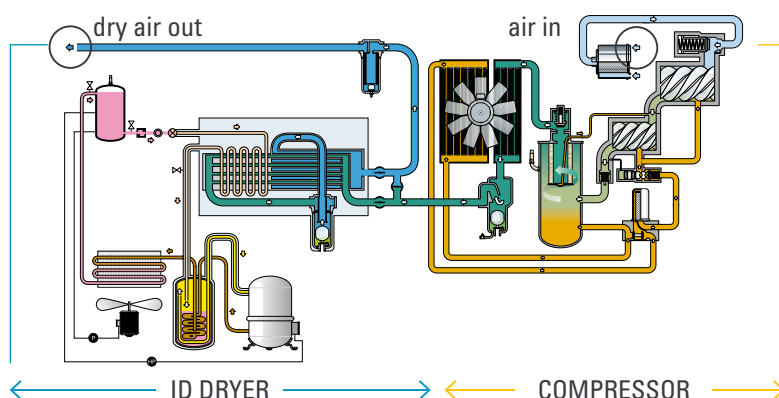
Noise level

A-weighted emission sound pressure level at the work station, Lp WSA (re 20 µPa) dB (with uncertainty 3 dB).

Values determined according to noise level test code ISO 2151 and noise measurement standard ISO 9614.



Dimensions GR 110-200 (FF)		
A	B	C
2,779 mm 109.4 inch	1,886 mm 74.3 inch	2,010 mm 79.2 inch



- refrigerant liquid
- refrigerant gas/liquid
- refrigerant gas
- refrigerant compressed gas
- incoming air
- wet air
- dry air
- air/oil mixture
- condensate
- oil

Committed to sustainable productivity

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand the test of time.
This is what we call - Sustainable Productivity.

