

# High-pressure oil-injected rotary screw compressors

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

*Atlas Copco*



english

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# 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
<b>GR 110 2-stage 20 bar</b>									
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
<b>GR 200 2-stage 20 bar</b>									
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)

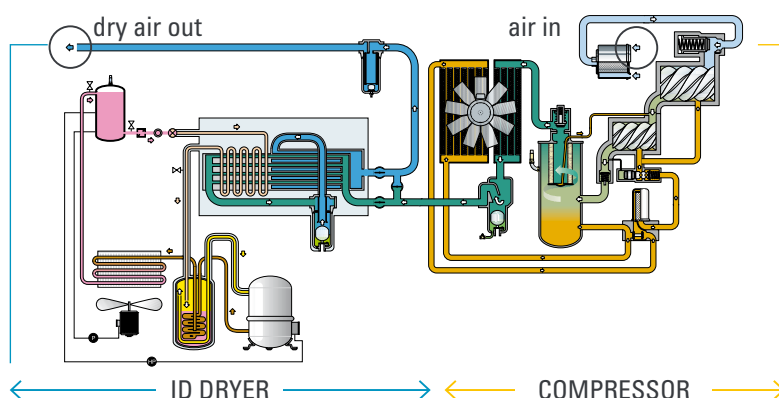
## Noise level

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

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### *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.

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