High-pressure oil-injected rotary screw compressors

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

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

Optimize your system
## Technical data

### Compressor type

<table>
<thead>
<tr>
<th>Compressor type</th>
<th>Max. working pressure</th>
<th>Capacity FAO</th>
<th>Installed motor</th>
<th>Noise level</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pack</td>
<td>full feature</td>
<td>pack / full feature</td>
<td></td>
<td>pack</td>
</tr>
<tr>
<td>GR 110 2-stage 20 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 Hz</td>
<td>20 bar(e)</td>
<td>290 psig</td>
<td>19.75 bar(e)</td>
<td>286 psig</td>
<td>211 l/s</td>
</tr>
<tr>
<td>60 Hz</td>
<td>20 bar(e)</td>
<td>290 psig</td>
<td>19.75 bar(e)</td>
<td>286 psig</td>
<td>224 l/s</td>
</tr>
</tbody>
</table>

### GR 200 2-stage 20 bar

<table>
<thead>
<tr>
<th>Compressor type</th>
<th>Max. working pressure</th>
<th>Capacity FAO</th>
<th>Installed motor</th>
<th>Noise level</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>pack</td>
</tr>
<tr>
<td>50 Hz</td>
<td>20 bar(e)</td>
<td>290 psig</td>
<td>19.75 bar(e)</td>
<td>286 psig</td>
<td>385 l/s</td>
</tr>
<tr>
<td>60 Hz</td>
<td>20 bar(e)</td>
<td>290 psig</td>
<td>19.75 bar(e)</td>
<td>286 psig</td>
<td>390 l/s</td>
</tr>
</tbody>
</table>

### Unit performance


### 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)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,779 mm</td>
<td>1,886 mm</td>
<td>2,010 mm</td>
</tr>
<tr>
<td>109.4 inch</td>
<td>74.3 inch</td>
<td>79.2 inch</td>
</tr>
</tbody>
</table>

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**Diagram:**

- 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.