Atlas Copco
Oil-injected Rotary Screw Compressors
GA 200-500 / GA 315 VSD / GR 110-200 – 50-60 Hz

Sustainable Productivity
The Total Energy Saving concept...

The shortest route to maximizing your profitability is to minimize operational cost. Because energy consumption is the major factor in a compressor’s life cycle cost, the focus in the design of the Atlas Copco GA and GR compressors is on saving energy in every conceivable way. This focus is the basis for a total product development concept that encompasses every stage of R&D, manufacturing, installation and after sales service.

THE LOWEST OPERATING COST

The thorough needs assessment
Real savings rely on facts. Atlas Copco consultants assess the air demand profile of your application and suggest the best compressor selection for the job.

The right core technology
Atlas Copco masters every compression principle and provides the most energy efficient technology for the required pressure and flow.

The best drive arrangement
Fixed speed machines are fine when they can run at full load most of the time. But when air demand fluctuates, the Variable Speed Drive can achieve substantial savings of up to 35%.

THE HIGHEST RELIABILITY

The experienced partner
Atlas Copco is the world leader in compressed air technology, with over 100 years of experience in air compression systems.

The integrated design
Internal piping, integral air dryer, integrated Variable Speed Drive, 100% matched components, consolidated controls...the only way to ensure total reliability.

The complete solution
Compressor, dryer, drive, filters, control system...they all carry the same mark of quality: the Atlas Copco logo.
An energy efficient machine saves money only if it runs reliably around the clock. And not just today, but day after day, year after year; with minimal service interventions and long overhaul intervals.

For over a century, Atlas Copco has been building machines that stand the test of time. With the proven GA/GR compressors, reliability has never been so timeless.

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**The fully optimized system**
A multi-compressor installation can be centrally controlled, to achieve a tight pressure band and the lowest overall energy cost.

**Energy recovery**
Heat from the compression process can be recovered and put to good use in endothermic processes, heating of buildings etc.

| Shaft power | 100% |
| Radiant losses | 2% |
| Remaining heat in compressed air | 4% |
| Recoverable energy | 94% |

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**The trouble-free installation & commissioning**
An Atlas Copco GA compressor is truly plug-and-play. Put the machine on a flat floor, connect the power line and the compressed air outlet…and push the start button.

**The professional follow-up**
An Atlas Copco Service Contract will assure you of the correct preventive maintenance, immediate response and genuine spare parts…all over the globe.
The GA 200-500 and GR 110-200 range comprises a series of no-nonsense machines with a robust and reliable design, easy to service and environmentally friendly. They are the culmination of decades of continuous improvement, radical innovation and interaction with the customer.

Within this range, the Total Energy Saving Concept takes solid form in the GA 315 VSD-FF compressor. It integrates a complete quality compressed air system in a compact package, featuring the ID dryer and the low energy Variable Speed Drive.

### Excellence by design

- Standard G compressor packages and Full Feature (FF) units – all vital components and standard options integrated, for a complete “all-in-one” installation
- Complete, ready-to-use compressor package
- Easy, low cost installation – no foundations
- True performance according to ISO 1217, Annex C, ed. 3
- Cost-effective and reliable Elektronikon® monitoring and control system
- Single-stage, twin-element and two-stage HP versions
- Proven reliability
- Straightforward and minimal maintenance
- Operator and service-friendly
- Silenced package – environment friendly
- Optional energy recovery system
- Water and aircooled versions
- A wide range of pressure and capacity variants
- Backed by a global sales and service organization

### Capacity range (50 & 60 Hz):
air and watercooled versions

<table>
<thead>
<tr>
<th>GA 200-315 FF, GA 315 VSD-FF, GA 315-500, GR 110-200 FF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GR 110-200</strong></td>
</tr>
<tr>
<td><strong>GA 200-315</strong></td>
</tr>
<tr>
<td><strong>GA 315 VSD</strong></td>
</tr>
<tr>
<td><strong>GA 315-500</strong></td>
</tr>
<tr>
<td>0  200  400  600  800  1000  1200  1400 l/s</td>
</tr>
<tr>
<td>424  848  1272  1696  2120  2544  2968 cfm</td>
</tr>
</tbody>
</table>

VSD: Variable Speed Drive / FF: Full Feature. See data pages for range details.
A complete scope to meet every need

### Included as standard

- Air intake filter
- Air intake valve (not on VSD units)
- Aftercooler/Oilcooler (air or watercooled)
- Cooling fan for aircooled units
- Ventilation fan for watercooled units
- Water separators
- Oil filters
- Complete air/oil/water circuit
- TEFC, Class F drive motor
- Built-in electrical starters
- Flexible vibration dampers
- Air/oil separator
- Elektronikon® control system
- Full load/no load regulation system (not on VSD units)
- Silencing canopy
- Single point inlet and outlet connections
- Structural steel skid – no foundations needed

Most features are included as standard. Some applications may need or benefit from additional options.

### Available options

<table>
<thead>
<tr>
<th>Feature</th>
<th>GA 200-315</th>
<th>GA 110-200</th>
<th>GA 315 VSD</th>
<th>GA 315-500</th>
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</thead>
<tbody>
<tr>
<td>Full Feature: integrated ID refrigerant dryer</td>
<td>• (1) na</td>
<td>na</td>
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<tr>
<td>Integrated DD pre-filter (only with integrated dryer)</td>
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<tr>
<td>HD oil - 8000 h oil (instead of RIF oil)</td>
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</tbody>
</table>

(1) Integrated VSD refrigerant dryer
(2) Only for GR 200 psi
(3) Effluent purity of 10 mg oil/liter Standard
(4) Standard
(5) Not available for 200 psig bar versions and FF units
(6) Applies only to GA 90-160
(7) Applies only to GA 200-315

na: not applicable
GA 250 FF
Aircooled Full Feature model

Quality air with low oil content
- three step air-oil separation (centrifuge, gravity, filter)
- oil content: less than 3 ppm by weight
- hinged cover for easy separator element change

Simple and efficient regulation system
- reliable, efficient load/no load or optional modulating control
- few moving parts – minimal maintenance
- largely dimensioned – minimal pressure drop

Superior element bearings
- high stability under varying process conditions
- adapt well to changing loads
- extended element lifetime
  - rotors revolve at low speeds minimizing wear on bearings
  - low operating temperatures and reduced bearing load

Moisture separator as standard
- a cyclonic moisture separator, with automatic and manual drain, mounted as standard, after the cooler block
Practical cooler cleaning
- hinged fans, fan motors and cowls for easy cooler cleaning
- twin fans for optimal cooling
- axial cooling fans driven by separate TEFC electric motors (IP55 protection)

Protective air filtration
- highly efficient dry paper cartridge
- compressor protection from foreign particles (99.9% for 3 micron – SAE fine)
- extends system lifetime

Full Feature variant for dry air with integrated ID dryer
- by-pass system as standard
- R404A refrigerant meets environmental regulations
- quality end product and system protection

Advanced Elektronikon® control and monitoring system
- overall system performance status with pro-active service indications, alarms for malfunctions and safety shutdowns
- multi-language selectable display
- all monitoring and control functions via one interface
- wide communication possibilities
- integration possible in many process control systems (field bus system)

Twin element design
- larger volume of air delivered, using less power, compared to equivalent compressor sizes
- Atlas Copco guaranteed production, quality control and service
GA 315-500 twin element series
...for highest efficiency and reliability

GA 400
Watercooled model

Twin element on single drive & gear casing
- Efficiencies far superior to designs using one large element or 2-stages
- Extended lifetime due to reduced loads on bearings, rotors and gears
- Highly efficient motor – TEFC protection, class F insulation

GA 315W-500W air/oil/cooling flow
(loaded condition)

Air in
Air out

Energy recovery
- The optional energy recovery system can recover up to 94% of the compressor’s shaft power as hot water
- The main module of the recovery system is integrated in the compressor
- Recovered hot water can be used as preheated boiler feed water, space heating, showering or other industrial applications

GA 355
Aircooled model
GR 110-200 FF two-stage high pressure series
... in 13 bar and 20 bar versions

For high pressure applications requiring a reliable air supply of 200 and 290 psi, the Atlas Copco GR 110-200 FF oil-injected screw compressors are the right choice. Not only do these workhorses offer every feature and benefit the GA series is renowned for, but the two-stage design also guarantees the most efficient operation at higher pressure.

The GR range selection
- GR 110 and GR 200 – available in 200 psi version
- GR 110, GR 132, GR 160 and GR 200 – available in 200 psi version
- GR FF – Full Feature versions with integrated ID dryer

Two-stage compression elements
- increased efficiency and reliability
- extended element lifetime due to reduced load on bearings, rotors and gears

GR 110-200 FF air/oil flow
(loaded condition)

ID DRYER  
COMPRESSOR

Dry air out
Air in

refrigerant liquid
refrigerant gas/liquid
refrigerant gas
refrigerant compressed gas

incoming air
wet air
dry air
air/oil mixture
condensate
oil

GR Full Feature: compact “all-in-one” package
- optional dry quality air variant, with integrated ID dryer and filters
- by-pass system included as standard
- R404A refrigerant, meets environmental regulations
- quality end product and system protection
- standard equipped with moisture separator
- a complete scope with many options

The GR design criteria
- designed to the same stringent criteria as the proven GA 90-315 series
- built for high pressure applications
- very complete pack unit - options available
- air or water cooled version
The GA 315 VSD houses the famous VSD variable drive system that brings an unprecedented level of energy savings. In addition, the GA 315 VSD-FF incorporates a VSD regulated ID refrigeration dryer to further reduce the energy consumption.

**GA 315 VSD-FF**
Aircooled Full Feature model

1. Advanced Elektronikon® control and monitoring system
2. Highly efficient compression element

**GA 315 VSD-FF air/oil flow**
(laoded condition)

**Most efficient element performance**
- longer active rotor length allows larger air volume to be compressed
- higher built-in pressure ratio for higher efficiency

**ID – Integrated VSD dryer**
- generates additional savings of up to 25% compared to a fixed speed refrigerant dryer
- designed for high ambient humidity conditions

* on GA 315 VSD-FF
Because a VSD compressor precisely follows the varying air demand that is typical in most production facilities, it dramatically reduces the energy bill and provides many additional benefits. The result is a fast payback of the investment and huge yearly savings long after that.

Because energy constitutes the biggest portion of the life cycle cost of a compressor, these savings have a significant impact on the operational costs of your compressed air system.

**Direct energy savings of 15 to 35%**

Low load operation of a VSD compressor does not result in energy losses.

- Load/no load transition losses are eliminated.
- The precise pressure control of the VSD compressor allows for a tighter and often lower discharge working pressure, resulting in reduced energy consumption.

**Indirect savings**

- The lowered net pressure obtained by the VSD compressor provides additional yearly savings:
  - other base-load compressors will consume up to 5% less energy
  - leak losses - always present in compressed air systems - are significantly reduced: e.g. leakage at 87 psig would be 13% less than at 102 psig
  - many compressed air applications consume less air at a reduced pressure, similar to leak reduction.

In addition to the direct savings, these indirect benefits can add up to another 10% energy savings in the complete compressed air installation.
VSD: The only way

Additional VSD benefits

- The constant net pressure provides stability for all processes making use of compressed air.
- Current peaks during start-up are eliminated
  - VSD compressors can be started and stopped without limitation
  - frequent start-stops no longer lead to current peak penalties
  - the electrical installation can often be rated for a lower current, meaning savings in investment.

Integrated VSD - The only way

1. The Elektronikon® system controls both the compressor and the integrated converter; this ensures maximum machine safety and allows easy networking of the compressor.
2. All Atlas Copco VSD compressors are EMC tested and certified. External sources do not influence the compressor operation, nor does the compressor disturb other equipment via emissions or via the power supply line.
3. Mechanical enhancements are made to ensure that gears and bearings receive proper lubrication at all speeds and that all components operate well below critical vibrations.

The machine is tested for the complete speed range to eliminate all “speed windows” that can jeopardize the energy savings and the stable net pressure.

Special attention is given to the electric motor, which is specifically designed for VSD operation (inverter duty motors). Bearings are protected against induced bearing currents and both motor and converter are perfectly tuned to obtain the best efficiency over the entire speed range.
Optimize your installation

Some applications may need or benefit from additional options and more refined control and air treatment systems. Tailored to the need, Atlas Copco has developed compatible equipment, further enhancing system reliability and quality.

DD/DDp/PD/PDp/QD Filters
For proper removal of oil vapour and particles, select the appropriate filter from the Atlas Copco filter range.

- **Nominal airflow:** 19 - 15,256 cfm
- **DD prefiltre:** removing bulk oil
- **DDp dust prefiltre:** removing particles
- **PD high efficiency filter:** removing bulk oil
- **PDp high efficiency dust filter:** removing particles
- **QD filter:** activated carbon

* For further information on the filters, please consult the Atlas Copco filter leaflet.

OSD - oil/water separator
Oily waste water drainage problems with oil-injected compressors can be efficiently overcome. Either integrated or free-standing, Atlas Copco has the appropriate system solution, meeting with legal directives.

Global presence - local service

Atlas Copco's Aftersales Service operation is unrivaled in the compressed air industry.

- High quality service is delivered locally: Atlas Copco's Aftersales is present in 150 countries around the world.
- Our service plans perfectly meet the requirements of your business and ensure a constant productivity at peak level.
- Consultancy services and on-site measurements help optimizing the complete air net, minimizing leak losses and maximizing energy savings.
- A sophisticated logistics concept brings genuine parts to your doorstep in record times, across the globe. After all, only genuine Atlas Copco parts, produced on the same assembly lines as your compressor, can guarantee a long lifetime and uninterrupted operation.
### Technical data

#### GA compressor range - 50 Hz: air and watercooled variants

<table>
<thead>
<tr>
<th>Compressor type</th>
<th>Maximum working pressure (bar(e))</th>
<th>Capacity FAD (l/s)</th>
<th>Installed motor (kW)</th>
<th>Noise level (dB(A))</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA 200 Twin</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>GA 200</td>
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**GA 500 figures are for medium voltage IP 23 motor**

#### GA VSD / GR compressor range - 50 Hz

<table>
<thead>
<tr>
<th>Compressor type</th>
<th>Maximum working pressure (bar(e))</th>
<th>Capacity FAD (l/s)</th>
<th>Installed motor (kW)</th>
<th>Noise level (dB(A))</th>
<th>Weight (kg)</th>
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**Compressor type**

- **A** = Aircooled
- **W** = Watercooled

### Notes:

1. **Unit performance** measured according to ISO 1217, Ed.3, Annex C-1996
2. **Reference conditions:**
   - absolute inlet pressure 1 bar (14.5 psi)
   - intake air 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
     - 13 bar variants at 12.5 bar
   - Integrated dryer:
     - pressure dewpoint of integrated refrigerant dryer at reference conditions: 3 to 4°C (37 to 39°F)
     - particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 mg/m³

### Noise level:

- measured according to Pneurop / Capi PN8NTC2.2 test code;
- tolerance ±3 dB(A)

**Integratred dryer:**

- pressure dewpoint of integrated refrigerant dryer at reference conditions: 3 to 4°C (37 to 39°F)
- particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 mg/m³

*W = Watercooled
A = Aircooled*
### GA compressor range - 60 Hz: air and watercooled variants

<table>
<thead>
<tr>
<th>Compressor type</th>
<th>Maximum working pressure</th>
<th>Capacity FAD (1)</th>
<th>Installed motor</th>
<th>Noise level (2)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pack</td>
<td>Full Feature</td>
<td>L/H</td>
<td>m³/min</td>
<td>cfm</td>
</tr>
<tr>
<td>GA 200-210 Twin</td>
<td>7.4</td>
<td>107</td>
<td>7.15</td>
<td>104</td>
<td>586</td>
</tr>
<tr>
<td>GA 300-210 Twin</td>
<td>9.1</td>
<td>132</td>
<td>8.85</td>
<td>128</td>
<td>532</td>
</tr>
<tr>
<td>GA 350-210 Twin</td>
<td>10.8</td>
<td>157</td>
<td>10.55</td>
<td>153</td>
<td>483</td>
</tr>
<tr>
<td>GA 400-210 Twin</td>
<td>12.5</td>
<td>182</td>
<td>12.85</td>
<td>187</td>
<td>438</td>
</tr>
<tr>
<td>GA 500-210 Twin</td>
<td>15.5</td>
<td>212</td>
<td>15.15</td>
<td>217</td>
<td>395</td>
</tr>
<tr>
<td>GA 600-210 Twin</td>
<td>18.8</td>
<td>242</td>
<td>18.25</td>
<td>247</td>
<td>361</td>
</tr>
<tr>
<td>GA 700-210 Twin</td>
<td>22.0</td>
<td>272</td>
<td>21.35</td>
<td>277</td>
<td>327</td>
</tr>
<tr>
<td>GA 800-210 Twin</td>
<td>25.3</td>
<td>302</td>
<td>24.45</td>
<td>307</td>
<td>294</td>
</tr>
<tr>
<td>GA 900-210 Twin</td>
<td>28.8</td>
<td>332</td>
<td>27.55</td>
<td>337</td>
<td>260</td>
</tr>
<tr>
<td>GA 1000-210 Twin</td>
<td>32.5</td>
<td>362</td>
<td>30.65</td>
<td>367</td>
<td>227</td>
</tr>
</tbody>
</table>

**GA 500W figures are for medium voltage IP 23 motor. GA 355W - GA 400W - GA 450W: two different motor types used for IEC/CSA-UL at 60Hz low voltage.**

### GA VSD / GR compressor range - 60 Hz

<table>
<thead>
<tr>
<th>Compressor type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>GA 315 VSD</td>
<td>338</td>
</tr>
<tr>
<td>GA 315-350</td>
<td>385</td>
</tr>
<tr>
<td>GA 315-500**</td>
<td>473</td>
</tr>
<tr>
<td>GA 315 VSD</td>
<td>400</td>
</tr>
<tr>
<td>GA 110-200</td>
<td>277</td>
</tr>
</tbody>
</table>

1. **Unit performance** measured according to ISO 1217, Ed.3, Annex C-1996
2. **Reference conditions:**
   - Absolute inlet pressure 1 bar (14.5 psi)
   - Intake air temperature 20°C (68°F)
3. **FAD** 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
   - 13 bar variants at 12.5 bar
   - 20 bar variants at 19 bar
4. **Noise level:**
   - Measured according to Pneurop / Cagi PN8NTC2.2 test code
   - Tolerance ±3 dB(A)
5. **Integrated dryer:**
   - Pressure dewpoint of integrated refrigerant dryer at reference conditions: 3 to 4°C (37 to 39°F)
6. **Integrated filter:**
   - Particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 mg/m³

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* W = Watercooled
A = Aircooled

**Image:**
[Image of GA compressor range - 60 Hz: air and watercooled variants]

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**Diagram:**
[Diagram of GA compressor range - 60 Hz: air and watercooled variants]
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.

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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.

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