Atlas Copco
Oil-injected Rotary Screw Compressors
GA 30+-90/GA 37-90 VSD (30-90 kW/40-125 hp)
The ultimate smart solution, driven by efficiency

Atlas Copco’s GA 30-90 compressors bring you outstanding sustainability, reliability and performance, while minimizing the total cost of ownership. A choice of three premium compressor types (GA VSD, GA+ and GA) provides you with the compressed air solution that perfectly matches your requirements with clear value propositions. Built to perform even in the harshest environments, these compressors keep your production running efficiently.

NEW HEIGHTS IN SUSTAINABILITY
The GA 30-90 family enables you to realize sustainable productivity through lower lifecycle costs and maximum uptime. IE3 or NEMA Premium Efficiency motors in combination with the highly efficient element minimize operating cost. The integrated dryer R410A reduces ozone depletion and protects the environment. Maximum uptime is achieved by maintenance from one side and complete drive train accessibility.

BENCHMARKING PERFORMANCE
Outstanding performance is ensured by design, with IE3 or NEMA Premium Efficiency motors in combination with Atlas Copco’s highly efficient element and an oversized cooling arrangement resulting in significant energy savings. Internal pressure drops from inlet to discharge are optimized. Efficient smart compressor controls and Atlas Copco algorithms minimize the working pressure band, saving energy.

NEW MILESTONES IN RELIABILITY
The reliability of the GA 30-90 range starts with the cool canopy and low element outlet temperatures, an oversized separate oil cooler and an aftercooler with patented integrated mechanical separator. The three-stage air/oil separation ensures low oil consumption. All electrical cubicles are in overpressure, preventing electrically conductive dust, thus increasing the lifetime of electrical components.

GA VSD: ULTIMATE ENERGY SAVER
- Unique integrated Variable Speed Drive (VSD) technology for on average 35% energy savings.
- Industry-leading operating turndown range and flexible pressure selection: 4-13 bar.
- Start under system pressure due to special VSD motor, no idling time.
- Integrated Dryer Saver Cycle saves up to 60% of the dryer’s electrical consumption.
- Smart Elektronikon® graphic compressor controller with high-definition color display working to a set point minimizes pressure drops.

GA+: INDUSTRY-LEADING PERFORMANCE
- Industry-leading Free Air Delivery and low energy consumption.
- IE3 / NEMA Premium Efficiency motor combined with highly efficient element.
- Low noise emission suitable for workplace installation.
- Environmentally-friendly R410A integrated dryer reduces footprint and pressure drops.
- Smart Elektronikon® graphic compressor controller with high-definition color display.

GA: PREMIUM COMPRESSOR
- High performance Free Air Delivery.
- IE2 / NEMA Premium Efficiency motor in combination with highly efficient element.
- Premium quality at the lowest initial investment.
- Efficient environmentally-friendly R410A integrated dryer reduces footprint and pressure drops.
- Ensured efficiency of Elektronikon® controller with connectivity.
A step ahead in monitoring and controls

The next-generation Elektronikon® operating system offers a wide variety of control and monitoring features that allow you to increase your compressor’s efficiency and reliability. To maximize energy efficiency, the Elektronikon® controls the main drive motor and regulates system pressure within a predefined and narrow pressure band.

IMPROVED USER-FRIENDLINESS

- 3.5-inch high-definition color display with clear pictograms and extra 4th LED indicator for service.
- Graphical display of key parameters (day, week, month) and 32 language settings.
- Internet-based compressor visualization using a simple Ethernet connection.
- On-screen Delayed Second Stop function and VSD savings indication.
- Graphical indication Serviceplan, remote control and connectivity functions.
- Software upgrade available to control up to 6 compressors by installing the optional integrated compressor controller.

Optional integrated compressor controller

Install, with a simple license, the optional integrated compressor controller and get simple, central control to reduce system pressure and energy consumption in installations of up to 4 (ES4i) or 6 (ES6i) compressors.

DUAL PRESSURE SET POINT & DELAYED SECOND STOP

Most production processes create fluctuating levels of demand which, in turn, can create energy waste in low use periods. Using either the standard or graphic Elektronikon® controller, you can manually or automatically create two different system pressure bands to optimize energy use and reduce costs at low use times. In addition, the sophisticated Delayed Second Stop (DSS) runs the drive motor only when needed. As the desired system pressure is maintained while the drive motor’s run time is minimized, energy consumption is kept at a minimum.

ONLINE & MOBILE MONITORING

Monitor your compressors over the Ethernet with the new Elektronikon® controller. Monitoring features include warning indications, compressor shut-down and maintenance scheduling. The Atlas Copco App is available for iPhones/Android phones as well as iPad and Android tablets. It allows fingertip monitoring of your compressed air system through your own secured network.

INTEGRATED DRYER SAVER CYCLE

Saver Cycle technology reduces the energy consumption of the integrated refrigerant dryers with the fan in light load applications. Using an ambient sensor to monitor the required dew point suppression, the Elektronikon® starts and stops the dryer and the fan, minimizing energy use and protecting the air system from corrosion.
Excellence in integrated air quality

Untreated compressed air contains moisture, aerosols and dirt particles that can damage your air system and contaminate your end product, resulting in risk of corrosion and compressed air system leaks. Maintenance costs can far exceed air treatment costs. Our compressors provide the clean, dry air that improves your system’s reliability, avoids costly downtime and production delays, and safeguards the quality of your products.

SAVE MONEY AND THE ENVIRONMENT

Avoid risk of corrosion and system leaks, and ensure the effective safe disposal of untreated condensate – all within ISO 14001 standards.

ON AVERAGE 50% ENERGY SAVINGS WITH R410A INTEGRATED DRYERS

- Use of energy-efficient refrigerant R410A reduces operating costs.
- R410A refrigerant reduces global warming potential by an average of 50%.
- Environmentally-friendly characteristics; zero ozone depletion.
- Unique Saver Cycle Control, with ambient temperature sensor and based on dryer load and relative humidity of compressed air, saves energy at partial load.
- Heat exchanger cross-flow technology with low pressure drop.
- Zero waste of compressed air thanks to no-lose condensate drain.
- Pressure dew point of 3°C (100% relative humidity at 20°C).

INTEGRATED PURITY

The optional DD/PD filters and integrated refrigerant air dryer (IFD) efficiently remove moisture, aerosols and dirt particles to protect your investment. This air quality prolongs the life of downstream equipment, increasing efficiency and ensuring quality of your final product.

<table>
<thead>
<tr>
<th>ISO quality class*</th>
<th>Dirt particle size</th>
<th>Water pressure dew point**</th>
<th>Oil concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4</td>
<td>3 microns</td>
<td>+3°C, +37°F</td>
<td>3 ppm</td>
</tr>
<tr>
<td>3.4.4</td>
<td>3 microns</td>
<td>+3°C, +37°F</td>
<td>3 ppm</td>
</tr>
<tr>
<td>3.6.2</td>
<td>1 micron</td>
<td>+3°C, +37°F</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>1.4.1</td>
<td>0.5-1 micron</td>
<td>+3°C, +37°F</td>
<td>0.01 ppm</td>
</tr>
</tbody>
</table>

*The table values reflect the maximum limits according to the temperature ISO gravity class.
**Water pressure dew point based on 100% RH at 20°C/68°F.

WorkPlace: Compressed air at the point of use

With the industry-leading low noise operation and integration of air and condensate treatment equipment, the GA+ offers complete versatility for your production. The compressor’s integrated design allows it to be placed on the production floor, creating substantial energy savings for your business.

LOW INSTALLATION COSTS

- The GA+ can operate close to the point of use – eliminating the need for a dedicated compressor room.
- The GA+ is delivered ready for use – minimizing production downtime and reducing installation costs.
- Filtration equipment is integrated – reducing the need for costly external piping and minimizing pressure drops.
- Low noise enables the above to be a reality.

REDUCED ENERGY AND MAINTENANCE COSTS

- With less external piping, the GA+ minimizes pressure drop across the system which can reduce energy costs.
- The filtration system produces clean air to prevent network corrosion – minimizing energy, repair and maintenance costs.
- The GA+ operates at the lowest possible system pressure to reduce energy costs thanks to the Elektronikon® advanced monitoring system.

INTEGRATED CONDENSATE MANAGEMENT

- OSCI is an efficient integrated solution that removes oil from condensate.
- Oil carryover contained in condensate can harm the environment.
- Treated condensate protects water, wildlife and ecosystems.
- The delivered water is harmless and can be disposed in a sewage system, reducing disposal costs.
Optimize your system

Some applications may need or may benefit from additional options and more refined control/air treatment systems. To meet these needs, Atlas Copco has developed options and easily integrated compatible equipment.

### INTEGRATED ENERGY RECOVERY

As much as 90% of the electrical energy used by a compressed air solution is converted into heat. Using Atlas Copco’s integrated energy recovery systems, it is feasible to recover up to 75% of that power input as hot air or hot water without any influence on the compressor’s performance. Through efficient usage of the recovered energy, you bring about important energy cost savings and obtain a high return on investment.

### ENERGY RECOVERY APPLICATIONS

- Auxiliary or main heating of warehouses, workshops etc.
- Industrial process heating.
- Water heating for laundries, industrial cleaning and sanitary facilities.
- Canteens and large kitchens.
- Food industry.
- Chemical and pharmaceutical industries.
- Drying processes.

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**Flow charts**

**VARIABLE SPEED DRIVE: GA VSD**

**FIXED SPEED: GA & GA**

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**Table: Comparison of GA 30**

<table>
<thead>
<tr>
<th>Feature</th>
<th>GA 30</th>
<th>GA 37-45 VSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake air</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Oil</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Condensate</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Air/oil mixture</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Wet compressed air</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Dried compressed air</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

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**Technical Specifications**

- **GA 37, 45 VSD**
  - Width: 1766 mm, 69.5"
  - Depth: 900 mm, 35.4"
  - Height: 1800 mm, 70.9"

- **GA 30**, **37, 45**
  - Width: 1766 mm, 69.5"
  - Depth: 900 mm, 35.4"
  - Height: 1800 mm, 70.9"

- **GA 55, 75, 90 VSD**
  - Width: 2248 mm, 88.5"
  - Depth: 1000 mm, 39.4"
  - Height: 1925 mm, 75.9"

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**Notes:**

- *FF units only.
- **Water-cooled units.
- *** Includes potential-free contacts: motor running, compressor load/unload.
- **** FF units max 50°C, 122°F.
Values determined according to noise level test code ISO 2151 and noise measurement standard ISO 9614.

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

FAD is measured at the following working pressures:

<table>
<thead>
<tr>
<th>Working pressure</th>
<th>Unit performance measured according to ISO 1217 , Annex C, Edition 4</th>
</tr>
</thead>
</table>

| Intake air temperature | 20°C, 68°F |
| Absolute inlet pressure | 1 bar (14.5 psi) |

Technical specifications GA 30+-90 (50 Hz versions)

<table>
<thead>
<tr>
<th>COMPRESSOR TYPE</th>
<th>Pressure level</th>
<th>Max. working pressure</th>
<th>Capacity FAD*</th>
<th>Installed motor power</th>
<th>Noise level**</th>
<th>Weight WorkFace</th>
<th>Weight WorkFace Full Features</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>bu/dia</td>
<td>psig</td>
<td>lpm</td>
<td>cfm</td>
<td>kW</td>
<td>hp</td>
<td>dB(A)</td>
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<tr>
<td>GA-30</td>
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Technical specifications GA 30+-90 (60 Hz versions)

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<tr>
<th>COMPRESSOR TYPE</th>
<th>Pressure level</th>
<th>Max. working pressure</th>
<th>Capacity FAD*</th>
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</tr>
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<tr>
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<tr>
<td>GA-30</td>
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Technical specifications GA 37-90 VSD (50/60 Hz versions)

<table>
<thead>
<tr>
<th>COMPRESSOR TYPE</th>
<th>Pressure level</th>
<th>Max. working pressure</th>
<th>Capacity FAD*</th>
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<td>lpm</td>
<td>cfm</td>
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<td>hp</td>
<td>dB(A)</td>
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<tr>
<td>GA 37 VSD</td>
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<td>20-30</td>
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<td>450</td>
<td>541</td>
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</tr>
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Please refer to the footnotes, reference conditions and FAD details of the 50 Hz versions.

* Unit performance measured according to ISO 1217, Annex E, Edition 4

** Noise level measured according to ISO 7779. Values determined according to noise level test code ISO 2151 and noise measurement standard ISO 9614. 

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