

OIL-INJECTED ROTARY SCREW COMPRESSORS

GA 160+ -315 (VSD) (160-315 kW/200-350 hp)



Atlas Copco





HIGHEST RELIABILITY, LOWEST OPERATING COSTS

The shortest route to maximize your profitability is to minimize your operational cost. As energy consumption is the major factor (up to 70%) of a compressor's lifecycle cost, the Atlas Copco GA 160+315 (VSD) compressors are designed to help you achieve significant savings. The compressors provide high-quality compressed air to meet your requirements even in the most demanding applications.

Mining industry

- Years of experience with thousands of compressors running around the world.
- High product reliability with maximum uptime even in harsh conditions.
- Strong global support network to provide 24/7 assistance even in remote locations.

Energy industry

- Protect downstream equipment and increase component lifetime.
- Integrated water separator with electronic drain as standard.
- GA Full Feature decreases energy and installation costs.

Metal industry

- Easy and quick installation, with flexible ducting possibilities.
- A complete, ready-to-use solution including all components and options.
- Low service cost thanks to high accessibility of components and long service intervals.

General industry

- GA compressors are designed for ultimate efficiency in all your industrial applications.
- Ideal for machinery operation, plant maintenance, cleaning, pneumatic tools and controls, sand- and shot-blasting.





Reducing your operating costs

The GA 160⁺-315 (VSD) provide maximum output at the lowest energy consumption. They will reduce your energy bill and your CO₂ emissions. The right core technologies with our experience in design and manufacture combine to produce a solution to match your needs. Generous cooling capacity, low pressure drop and a highly efficient drive train ensure optimum operation over a long lifetime.

Ensuring your peace of mind

The GA 160⁺-315 (VSD) optimize uptime by keeping your production running, 24/7. The highly advanced controller ensures optimum operation by controlling all compressor inputs and outputs.

Easy installation and service

Easy to install, the 'all-in-one' package includes all necessary equipment. There are no hidden costs, nor any extra devices to install. Ducting is easy for increased flexibility. Service cost is reduced to a minimum: all parts are easily accessible via large opening doors, consumables are long-lasting, and service operations are easy and safe to perform.

Protecting your production

With its integrated dryer, the GA FF (Full Feature) provides dry compressed air (pressure dewpoint of +3°C/37°F), while ensuring the lowest pressure drop and minimal installation costs. This compact package offers fully integrated functionalities such as saver cycle control that regulates the dryer at optimum capacity. Moreover, each compressor has an integrated Water Separator Drain as standard to remove 100% of condensate.

Maximizing your profitability

As there is no "one size fits all" concept, we have developed a range of features and options to help you optimize the use of your compressor: from running the machine at high temperatures, to extra safety devices. Our highly skilled engineering team can help you develop a customized compressor based on your specific needs.

THE GA 160⁺-315 SETS A NEW STANDARD IN THE INDUSTRY



1 High-efficiency motor

- TEFC IP55 motor (Class F insulation B rise) protects against dust and chemicals.
- Continuous operation in ambient temperatures up to 55°C/131°F (standard up to 46°C/115°F).

2 State-of-the-art screw element

- Patented asymmetric rotor profile and meticulous selection of bearings.
- Low wear and tear leads to increased reliability.
- Proven reliability with thousands of installations throughout the world.

3 Cooling module

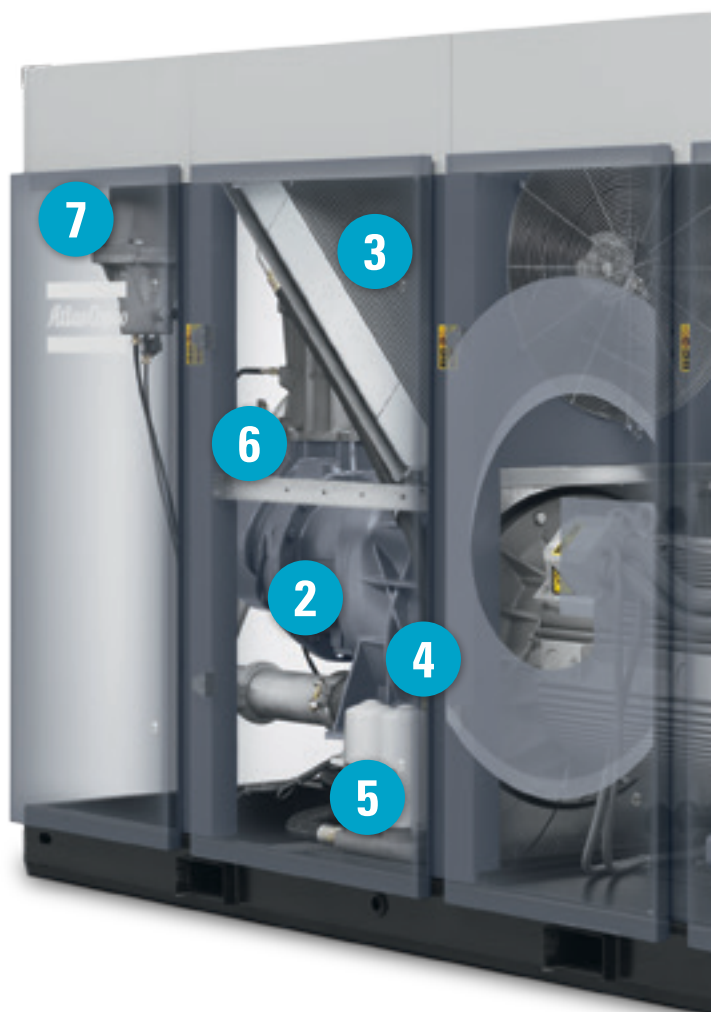
- Separated oil and aftercoolers for highest efficiency.
- Axial cooling fans driven by separate TEFC electric motors (IP55 protection).
- Low noise level.

4 Gear-driven transmission

- Maintenance-free; totally enclosed and protected against dirt and dust.
- Optimal working range of the screw element.
- Bowex coupling to absorb the trust load and increase the reliability.

5 Service-friendly

- Selection of long lifetime consumables.
- Easy and safe access to all service parts.
- Unique sliding system to access the oil coolers.





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Optimized loading/unloading valve

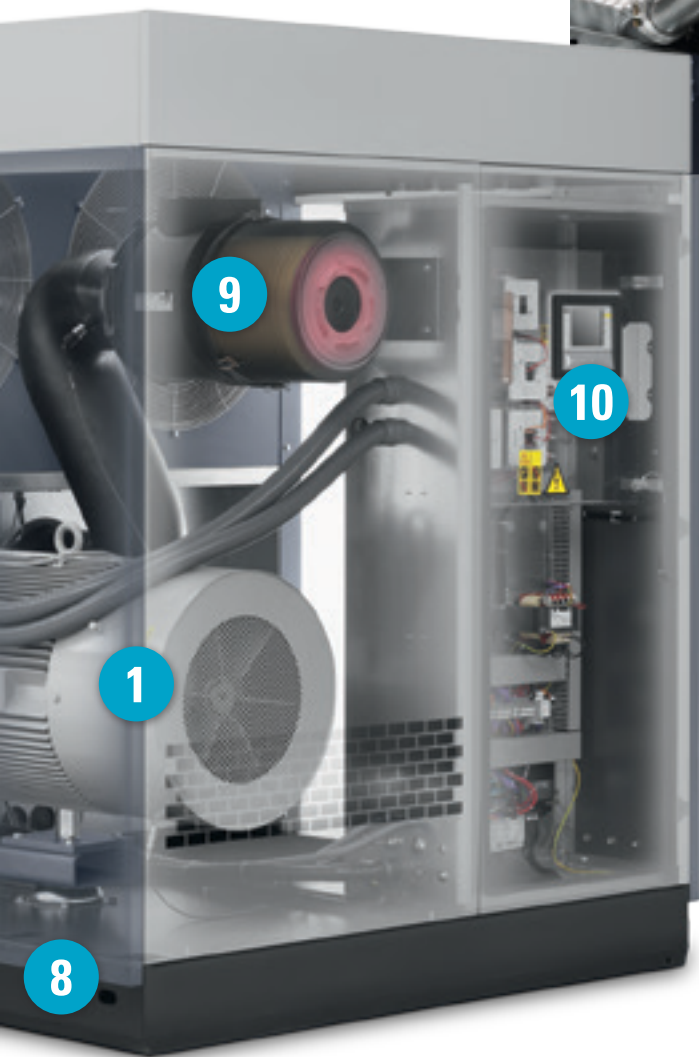
- Ensures constant optimized pressure in the system, resulting in significant energy savings.
- Simple, maintenance-free set-up with few moving parts for highest reliability.
- Accurate control through solenoid valve.



7

Superior air quality

- Integrated water separator with electronic drain removes 100% of condensate.
- Full Feature with integrated dryer (up to 315 kW).



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Easy to install

- Oil-containing frame as standard.
- All-in-one package, no hidden costs.
- Flexible ducting possibilities.

9

Superior air intake filter

- Protects the compressor components by removing 99.9% of dirt particles > 3 µm.
- Reduces the dust load in the fine filter, doubling the filter element lifetime without reducing filter efficiency.

10

Elektronik® for advanced monitoring

- Integrated smart algorithms reduce system pressure and energy consumption.
- Monitoring features include warning indications, maintenance scheduling and online visualization of machine's condition.

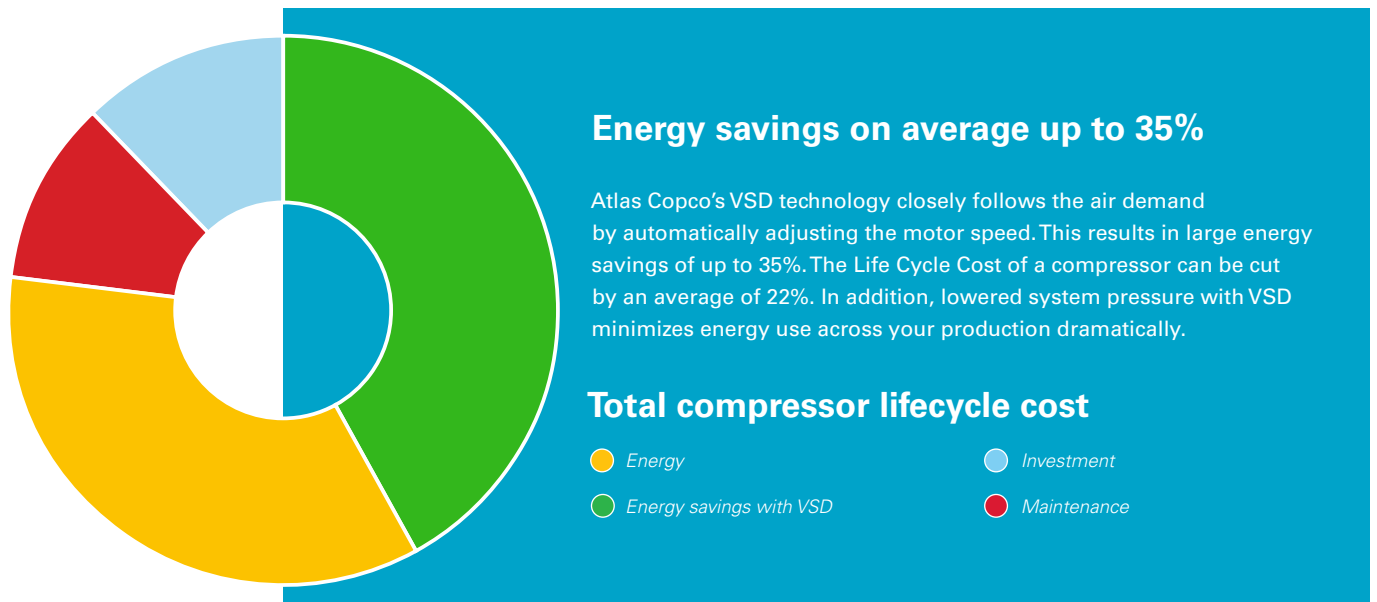
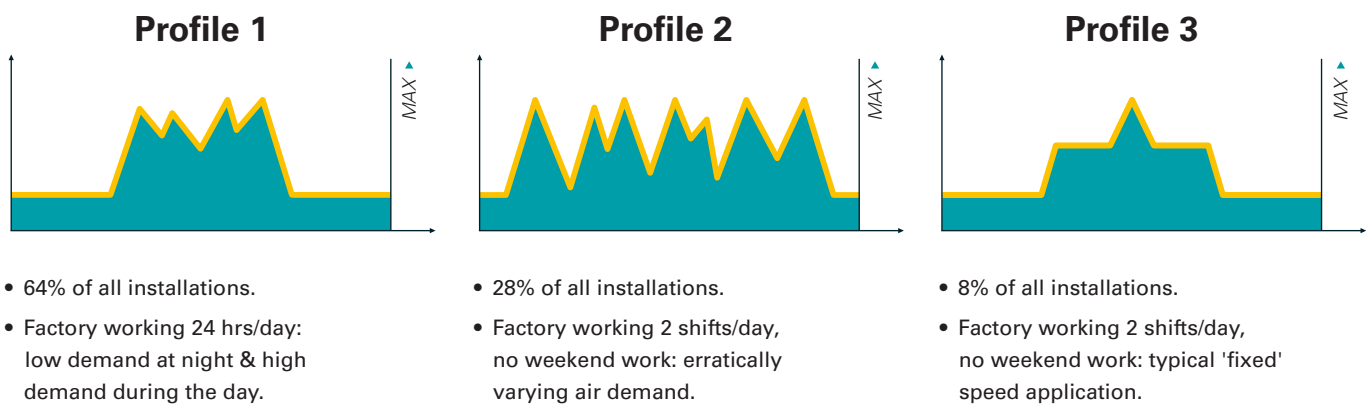


VSD: DRIVING DOWN YOUR ENERGY COSTS

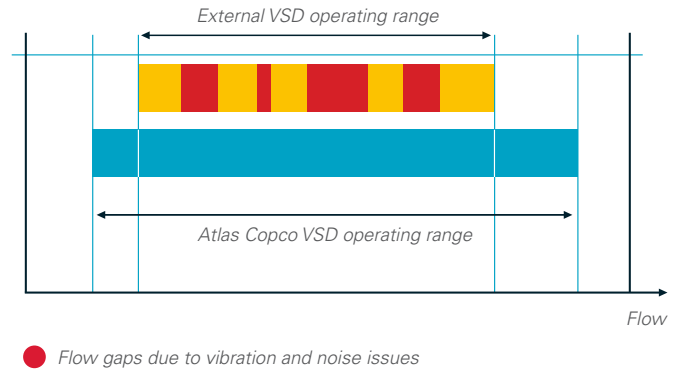
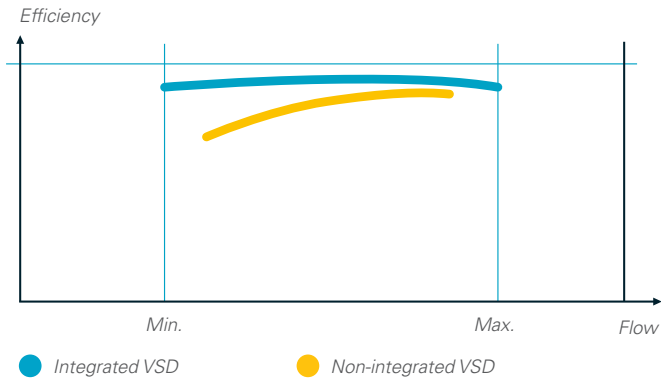
Over 70% of a compressor's lifecycle cost is taken up by the energy it consumes. Moreover, the generation of compressed air can account for more than 40% of a plant's total electricity bill. To cut your energy costs, Atlas Copco has pioneered Variable Speed Drive (VSD) technology for several decades. VSD leads to major energy savings, reducing the consumption of energy producing fuels and protecting the environment for future generations. Thanks to continual investments in this technology, Atlas Copco offers the widest range of integrated VSD compressors on the market.

What is VSD technology?

In almost every production environment, air demand fluctuates depending on different factors (time of the day, week or even month). Extensive measurements and studies of compressed air demand profiles show that many compressors have substantial variations in air demand. Only 8% of all installations have a more stable air demand. Tests prove that, even in this case, VSD compressors save energy.

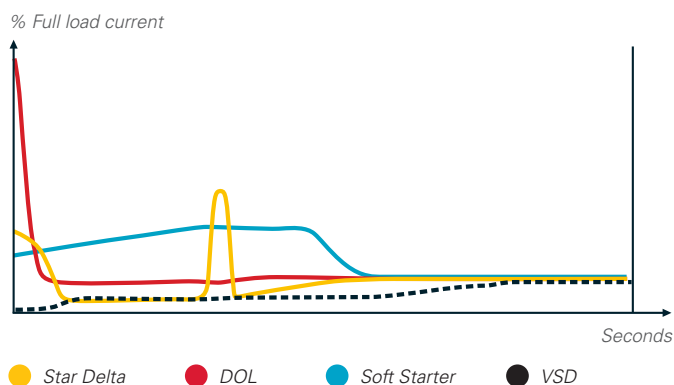


WHAT IS UNIQUE ABOUT THE INTEGRATED ATLAS COPCO GA VSD?



- 1 The Elektronikon® unit controller manages both the compressor and the integrated converter, ensuring maximum machine **safety** within parameters.
- 2 Flexible pressure selection from 4 to 13 bar with electronic gearing reduces electricity costs.
- 3 Specific converter and motor design (with protected bearings) for the **highest efficiency across the speed range**.
- 4 Electric motor specifically designed for low operating speeds with clear attention to motor cooling and compressor cooling requirements.
- 5 All Atlas Copco GA VSD compressors are **EMC tested and certified**. Compressor operation does not influence external sources and vice versa.
- 6 Mechanical enhancements ensure that all components operate below critical vibration levels throughout the entire compressor speed range.
- 7 A highly efficient frequency converter in a cool overpressure cubicle ensures **stable operation in high ambient temperatures up to 50°C/122°F** (standard up to 46°C/114.8°F).
- 8 It is important to ensure that when using a Variable Speed Drive vibration and noise issues do not occur. Atlas Copco compressors are designed and tested to guarantee they **operate across the entire frequency range of operation**. When an external VSD drive is used it may become necessary to limit the operating range of the compressor, leading to reduced energy saving and jeopardizing stable air network pressure.
- 9 The cubicle cooling booster **increases the lifetime** of electrical components due to a cool cubicle in overpressure and reduced dust ingress.
- 10 Net pressure band is maintained within 0.10 bar, 1.5 psi.

No current peaks



INCREASE YOUR SAVINGS WITH ENERGY RECOVERY

The Kyoto directives and the continuing depletion of traditional energy sources mean that businesses throughout the world are making commitments to significantly reduce overall energy consumption. Through innovative products and solutions, Atlas Copco helps you achieve your goals in this area. When it comes to compressed air production – where energy costs can constitute 70% of total lifecycle costs – saving energy can also lead to substantial cost savings.

Integrated heat exchanger

Air compression creates heat that is normally wasted in the coolers. Energy recovery systems designed by Atlas Copco enable the recovery of most of this heat. Recovery of energy from the shaft input of the compressor can be up to 94% of the compressor shaft power. The heat is directly usable as a source of energy in the form of hot water (85-90°C/185- 194°F). The main module of the recovery system is built into the compressor. The investment needed to link the hot oil circuit from the compressor to the existing water circuit is relatively modest and the time needed before seeing payback from your investment is generally very short.



Warm air heat recovery

The ducting on your GA compressors also constitutes a simple and smart solution to generate space heating. Ducting simply directs the warmed cooling air to where it is needed – such as workshops, storage warehouses or other facilities. To cope with seasonal changes, louver flaps can be used to vent the warm air to the outside. An installation with motorized and thermostatically controlled louvers is the ideal solution to accurately monitor the temperature with a full control of the flow of heating air.

Applications:

- Heating of facilities, warehouses or workshops.
- Drying air for painting and washing applications.

PROTECT YOUR PRODUCTION WITH THE GA FF

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.

All-in-one quality air production

The GA FF (Full Feature) is a ready-to-use, compact package that guarantees a pressure dewpoint of 3°C/37°F (100% relative humidity at 20°C/68°F). All the wires and pipes are assembled in the factory, so there is no need for additional installation work. The dryers can perform at ambient conditions up to 46°C/115°F.



Save money and the environment

The unique and patented Saver Cycle Control stops the dryer when the compressor is stopped or in unload mode, drastically reducing power consumption. The dewpoint is continuously monitored and the dryer is re-started when the dewpoint begins to increase.

Optimized air purity

The optional external filters and integrated refrigerant air dryer efficiently remove moisture, aerosols and dirt particles to protect your investment. This air quality prolongs the life of downstream equipment, increasing efficiency, reducing maintenance requirements and ensuring quality of your final product.

| Configure your GA for the air quality you need | ISO Quality Class | Dirt Particle Size | Water Pressure Dew Point | Oil Concentration |
|---|-------------------|--------------------|--------------------------|-------------------|
| GA | 3.-4 | 3 microns | - | 3 ppm |
| GA FF with ID | 3.4.4 | 3 microns | +3°C, 37°F | 3 ppm |
| GA FF with ID & general purpose coalescing filter | 2.4.2 | 1 micron | +3°C, 37°F | 0.1 ppm |

MONITORING AND CONTROL: HOW TO GET THE MOST FROM THE LEAST

The Elektronikon® unit controller is specially designed to maximize the performance of your compressors and air treatment equipment under a variety of conditions. Our solutions provide you with key benefits such as increased energy efficiency, lower energy consumption, reduced maintenance times and less stress... less stress for both you and your entire air system.



Intelligence is part of the package

- High resolution color display gives you an easy to understand readout of the equipment's running conditions.
- Clear icons and intuitive navigation provides you fast access to all of the important settings and data.
- Monitoring of the equipment running conditions and maintenance status; bringing this information to your attention when needed.
- Operation of the equipment to deliver specifically and reliably to your compressed air needs.
- Built in remote control and notifications functions provided as standard, including simple to use Ethernet based communication.
- Support for 31 different languages, including character based languages.



Online & mobile monitoring

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



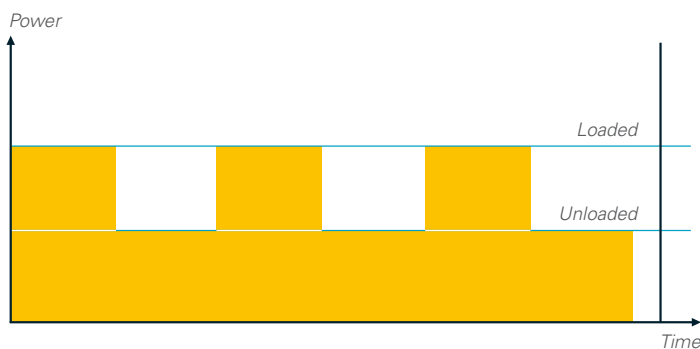
Full optimization - ES system controller

Improve product quality every minute that your facility is in operation. Atlas Copco's ES system controllers offer a convenient way to achieve optimized performance from your low pressure equipment through a single centralized point of monitoring and control. With the ES system controller watching over your compressors and compressed air network, you will have a highly dependable and energy efficient solution working with your facility to manage operating costs.

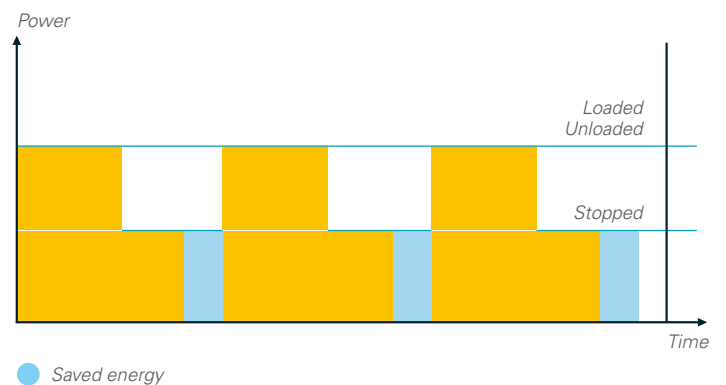
Dual pressure set-point and Delayed Second Stop

Most production processes create fluctuating levels of demand which, in turn, can create energy waste in low use periods. Using the graphic Elektronikon® unit 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 to a minimum.

Without DSS



With DSS



SMARTLINK*: Data Monitoring Program

- A remote monitoring system that helps you optimize your compressed air system and save you energy and cost.
- It offers you a complete insight in your compressed air network and anticipates on potential problems by warning you up-front.

**Please contact your local sales representative for more information.*

OPTIMIZE YOUR SYSTEM

Scope of supply

| | |
|-----------------------|--|
| Air circuit | Superior air inlet filters and flexibles |
| | Air intake valve (not on VSD units) |
| | Full load/no load regulation system (not for VSD) |
| Oil circuit | Heavy-duty oil filters |
| | Complete oil circuit |
| | Air/oil separation system |
| Cooling circuit | Compressed air aftercooler and oil cooler |
| | Stainless steel tube and Shell coolers for water-cooled versions |
| | Axial cooling fans for air-cooled versions. |
| | Integrated water separator |
| | Electronic water drains with no loss of compressed air |
| | Complete air, oil, water circuit |
| Electrical components | TEFC IP55 Class F IE3 electric motor |
| | Starters* (Star-Delta) |
| | Pre-mounted electrical VSD cubicles (only for VSD units) |
| | Elektronikon® unit controller |
| Framework | Flexible vibration dampers |
| | Silenced canopy |
| | Structural skid with no need for foundations |
| | Suppression of emissions/harmonic distortions |

* Only for low voltage motors.

Additional features & options

| | | GA 160+ -315 | GA 200-315 VSD |
|-----------------------|---|--------------|----------------|
| Air treatment | Full Feature: integrated ID refrigerant dryer | • | • |
| | Winterization protection | • | - |
| Weather protection | High ambient version* | • | • |
| | Rain protection kit | • | - |
| Electrical protection | Phase sequence relay | • | - |
| | PT1000 thermal protection (windings and bearings) | • | ✓ |
| | Anti-condensation heater in the main motor | • | ✓ |
| | VSD cabinet heavy-duty filtration (applicable for VSDs) | - | • |
| | SPM vibration monitoring system | • | • |
| | TT or TN network system | ✓ | ✓ |
| | IT network system | • | • |
| | High short circuit current rating (HSCCR) | • | • |
| General options | Roto-Xtend duty fluid 8000h | ✓ | ✓ |
| | NPT or ANSI connections | • | • |
| | Anchor pads | • | • |
| | Performance test certificate | • | • |
| | Witnessed performance test | • | • |
| | Material certificates | • | • |
| | Seaworthy packaging | • | • |
| | Heavy-duty filter | • | • |
| | Integrated Energy Recovery system | • | • |
| | Separate air intake | • | • |
| General options | Modulation control | • | - |
| | Automatic water shut-off valve for water-cooled units | • | • |
| | Thermostatic valve for water-cooled units | - | • |
| | Medium voltage motor | • | - |

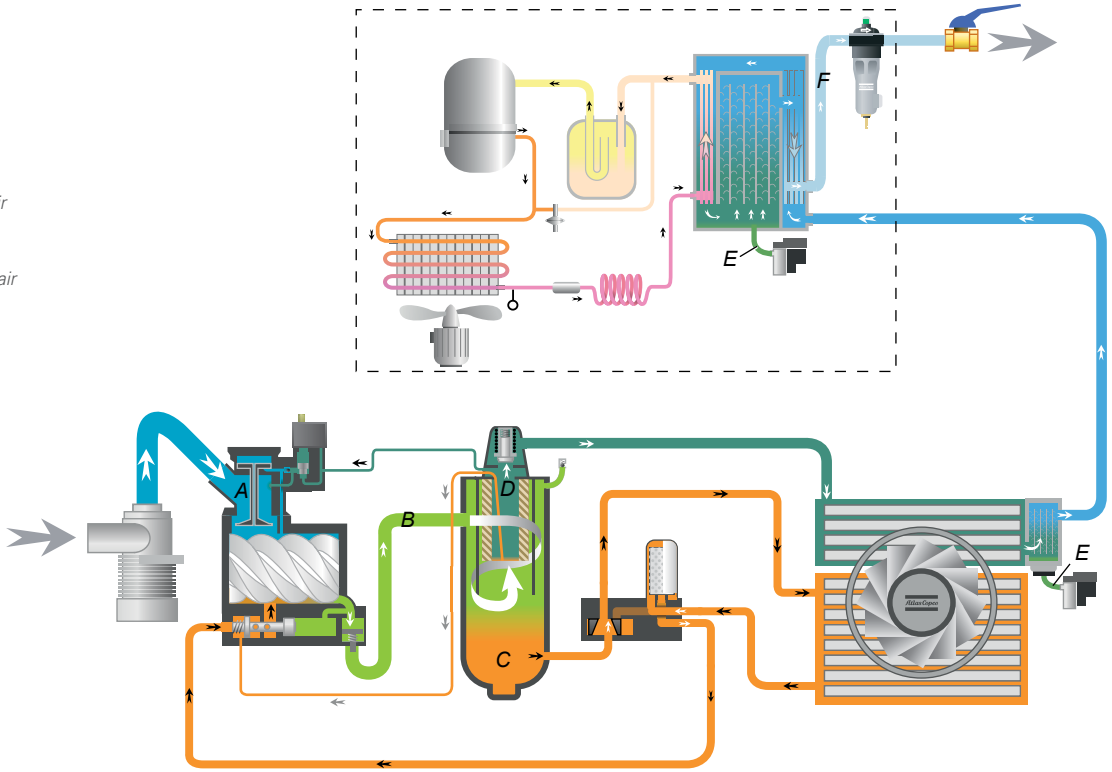
* GA VSD 50°C/122°F

✓ : Standard • : Optional - : Not available

FLOW CHARTS

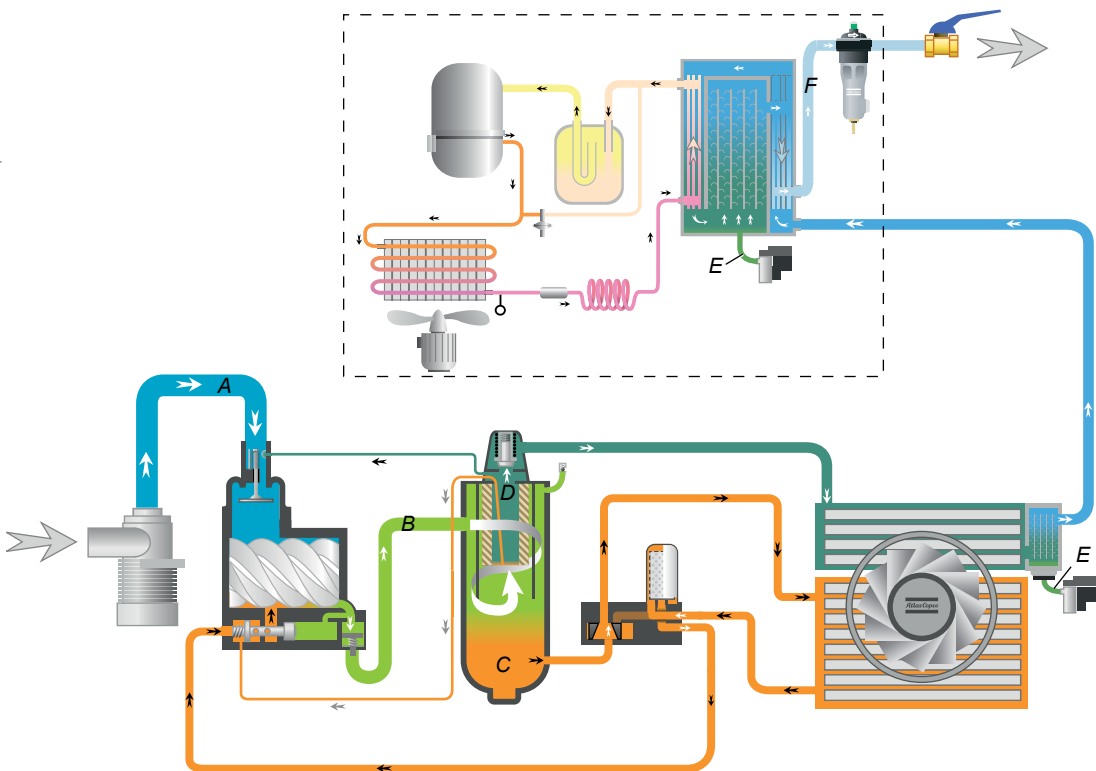
Fixed speed: GA+ & GA

- A ● Intake air
- B ● Air/oil mixture
- C ● Oil
- D ● Wet compressed air
- E ● Condensate
- F ● Dried compressed air



Variable Speed Drive: GA VSD

- A ● Intake air
- B ● Air/oil mixture
- C ● Oil
- D ● Wet compressed air
- E ● Condensate
- F ● Dried compressed air



TECHNICAL SPECIFICATIONS

GA 160⁺-315 (VSD) (50 Hz)

| TYPE | Working pressure | | | | Capacity FAD (1) | | | Installed motor power | Noise level (2) | Weight | | | |
|-------------------------------|------------------|------|------------------|------|-------------------------|---------------------|------|-----------------------|-----------------|----------|-------|--------------|-------|
| | Standard | | Full Feature (3) | | Standard / Full Feature | | | | | Standard | | Full Feature | |
| | bar(e) | psig | bar(e) | psig | l/s | m ³ /min | cfm | kW | dB(A) | kg | lb | kg | lb |
| GA 160 ⁺ - 5.5 bar | 5.5 | 80 | 5.3 | 77 | 621 | 37.2 | 1316 | 160 | 77 | 3624 | 7990 | 4081 | 8997 |
| GA 160 ⁺ - 7.5 bar | 7.5 | 109 | 7.3 | 106 | 538 | 32.2 | 1140 | | | 3624 | 7990 | 4081 | 8997 |
| GA 160 ⁺ - 8.5 bar | 8.5 | 123 | 8.3 | 120 | 498 | 29.8 | 1055 | | | 3197 | 7049 | 3654 | 8057 |
| GA 160 ⁺ - 10 bar | 10 | 145 | 9.8 | 142 | 448 | 26.9 | 949 | 200 | 78 | 3197 | 7049 | 3654 | 8057 |
| GA 200 - 5.5 bar | 5.5 | 80 | 5.3 | 77 | 748 | 44.8 | 1585 | | | 3624 | 7990 | 4217 | 9297 |
| GA 200 - 7.5 bar | 7.5 | 109 | 7.3 | 106 | 674 | 40.4 | 1428 | | | 4927 | 10862 | 5384 | 11870 |
| GA 200 - 8.5 bar | 8.5 | 123 | 8.3 | 120 | 632 | 37.9 | 1339 | 250 | 78 | 4927 | 10862 | 5384 | 11870 |
| GA 200 - 10 bar | 10 | 145 | 9.8 | 142 | 572 | 34.3 | 1212 | | | 4500 | 9922 | 4957 | 10929 |
| GA 200 - 14 bar | 14 | 203 | 13.8 | 200 | 440 | 26.4 | 932 | | | 4500 | 9922 | 4957 | 10929 |
| GA 250 - 7.5 bar | 7.5 | 109 | 7.3 | 106 | 833 | 49.9 | 1765 | 315 | 78 | 5144 | 11341 | 5737 | 12648 |
| GA 250 - 8.5 bar | 8.5 | 123 | 8.3 | 120 | 773 | 46.3 | 1638 | | | 5144 | 11341 | 5601 | 12348 |
| GA 250 - 10 bar | 10 | 145 | 9.8 | 142 | 709 | 42.5 | 1503 | | | 4717 | 10400 | 5174 | 11408 |
| GA 250 - 14 bar | 14 | 203 | 13.8 | 200 | 575 | 34.5 | 1219 | 315 | 78 | 4717 | 10400 | 5174 | 11408 |
| GA 315 - 7.5 bar | 7.5 | 109 | 7.3 | 106 | 1000 | 59.9 | 2119 | | | 5559 | 12256 | 6152 | 13563 |
| GA 315 - 8.5 bar | 8.5 | 123 | 8.3 | 120 | 955 | 57.2 | 2024 | | | 5559 | 12256 | 6152 | 13563 |
| GA 315 - 10 bar | 10 | 145 | 9.8 | 142 | 891 | 53.4 | 1888 | 315 | 78 | 5132 | 11315 | 5725 | 12622 |
| GA 315 - 14 bar | 14 | 203 | 13.8 | 200 | 745 | 44.7 | 1579 | | | 5132 | 11315 | 5589 | 12323 |

| TYPE | | Working pressure | | | | Capacity FAD (1) | | | Installed motor power | Noise level (2) | Weight | | | |
|----------------------|---------|------------------|------|------------------|------|-------------------------|---------------------|------------|-----------------------|-----------------|----------|-------|--------------|-------|
| | | Standard | | Full Feature (3) | | Standard / Full Feature | | | | | Standard | | Full Feature | |
| | | bar(e) | psig | bar(e) | psig | l/s | m ³ /min | cfm | kW | dB(A) | kg | lb | kg | lb |
| GA 200 VSD - 8.5 bar | Minimum | 5 | 72 | 5 | 72 | 211 - 806 | 12.7 - 48.4 | 447 - 1708 | 200 | 77 | 5682 | 12527 | 6221 | 13715 |
| | Nominal | 7 | 101 | 7 | 101 | 206 - 716 | 12.4 - 43.0 | 436 - 1517 | | | | | | |
| | Maximum | 8.5 | 123 | 8.3 | 120 | 202 - 656 | 12.1 - 39.4 | 428 - 1390 | | | | | | |
| GA 200 VSD - 10 bar | Minimum | 6 | 87 | 6 | 87 | 100 - 611 | 6.0 - 36.7 | 212 - 1295 | 200 | 80 | 4352 | 9594 | 4891 | 10783 |
| | Nominal | 9.5 | 138 | 9.5 | 138 | 97 - 600 | 5.8 - 36.0 | 206 - 1271 | | | | | | |
| | Maximum | 10 | 145 | 9.8 | 142 | 96 - 584 | 5.8 - 35.0 | 203 - 1237 | | | | | | |
| GA 200 VSD - 14 bar | Minimum | 9 | 131 | 9 | 131 | 98 - 608 | 5.9 - 36.5 | 208 - 1288 | 200 | 80 | 4352 | 9594 | 4891 | 10783 |
| | Nominal | 13.5 | 196 | 12.5 | 181 | 86 - 504 | 5.2 - 30.2 | 182 - 1068 | | | | | | |
| | Maximum | 14 | 203 | 12.8 | 185 | 84 - 495 | 5.0 - 29.7 | 178 - 1049 | | | | | | |
| GA 250 VSD - 8.5 bar | Minimum | 5 | 72 | 5 | 72 | 211 - 900 | 12.7 - 54.0 | 447 - 1907 | 250 | 80 | 5682 | 12527 | 6301 | 13891 |
| | Nominal | 7 | 101 | 7 | 101 | 206 - 876 | 12.4 - 52.6 | 436 - 1856 | | | | | | |
| | Maximum | 8.5 | 123 | 8.3 | 120 | 202 - 808 | 12.1 - 48.5 | 428 - 1712 | | | | | | |
| GA 250 VSD - 10 bar | Minimum | 6 | 87 | 6 | 87 | 208 - 899 | 12.5 - 53.9 | 441 - 1905 | 250 | 77 | 5255 | 11585 | 5874 | 12950 |
| | Nominal | 9.5 | 138 | 9.5 | 138 | 200 - 767 | 12.0 - 46.0 | 424 - 1625 | | | | | | |
| | Maximum | 10 | 145 | 9.8 | 142 | 198 - 748 | 11.9 - 44.9 | 420 - 1585 | | | | | | |
| GA 315 VSD - 8.5 bar | Minimum | 5 | 72 | 5 | 72 | 211 - 1051 | 12.7 - 63.1 | 447 - 2237 | 315 | 79 | 5792 | 12769 | 6411 | 14134 |
| | Nominal | 7 | 101 | 7 | 101 | 206 - 1049 | 12.4 - 62.9 | 436 - 2223 | | | | | | |
| | Maximum | 8.5 | 123 | 8.3 | 120 | 202 - 992 | 12.1 - 59.5 | 428 - 2102 | | | | | | |
| GA 315 VSD - 10 bar | Minimum | 6 | 87 | 6 | 87 | 208 - 1050 | 12.5 - 63.0 | 441 - 2225 | 315 | 80 | 5365 | 11828 | 5984 | 13192 |
| | Nominal | 9.5 | 138 | 9.5 | 138 | 200 - 947 | 12.0 - 56.8 | 424 - 2007 | | | | | | |
| | Maximum | 10 | 145 | 9.8 | 142 | 198 - 925 | 11.9 - 55.5 | 420 - 1960 | | | | | | |

(1) Unit performance measured according to ISO 1217, Annex C and E, Edition 4 (2009).
 Reference conditions:
 - Absolute inlet pressure 1 bar (14.5 psi).
 - Intake air temperature 20°C (68°F).

(2) A-weighted emission sound pressure level at the work station, L_p 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. Pressure dew point of integrated refrigerant dryer at reference conditions: 2°C to 3°C (36°F to 37°F).

(3) Integrated dryer: compressed air pressure dewpoint at dryer reference conditions 3°C (37°F).

FAD (1) is measured at the following working pressures:

| | Standard | FF |
|--------------------|----------|----------|
| 5.5 bar version at | 5 bar | 5 bar |
| 7.5 bar version at | 7 bar | 7 bar |
| 8.5 bar version at | 8 bar | 8 bar |
| 10 bar version at | 9.5 bar | 9.5 bar |
| 14 bar version at | 13.5 bar | 12.5 bar |

DIMENSIONS

| | L | W | H |
|--------------------------------------|------|------|------|
| | mm | | |
| GA 160 ⁺ -315 A/W | 3400 | 2000 | 2300 |
| GA 160 ⁺ -315 A - FF | 4300 | 2000 | 2300 |
| GA 160 ⁺ -315 W - FF | 3400 | 2000 | 2300 |
| GA 160 ⁺ -315 A/W (MV) | 3700 | 2000 | 2300 |
| GA 160 ⁺ -315 A - FF (MV) | 4600 | 2000 | 2300 |
| GA 160 ⁺ -315 W - FF (MV) | 3700 | 2000 | 2300 |
| GA 200-315 VSD A | 3700 | 2000 | 2300 |
| GA 200-315 VSD A - FF | 4600 | 2000 | 2300 |
| GA 200-315 VSD W | 3700 | 2000 | 2300 |
| GA 200-315 VSD W - FF | 3700 | 2000 | 2300 |

A = air-cooled.
 W = water-cooled.
 FF = Full Feature.

TECHNICAL SPECIFICATIONS

GA 160⁺-315 (VSD) (60 Hz)

| TYPE | Working pressure | | | | Capacity FAD (1) | | | Installed motor power | Noise level (2) | Weight | | | |
|-------------------------------|------------------|------|------------------|------|-------------------------|---------------------|------|-----------------------|-----------------|----------|-------|--------------|-------|
| | Standard | | Full Feature (3) | | Standard / Full Feature | | | | | Standard | | Full Feature | |
| | bar(e) | psig | bar(e) | psig | l/s | m ³ /min | cfm | | | kg | lb | kg | lb |
| GA 160 ⁺ - 75 psi | 5.5 | 80 | 5.3 | 77 | 580 | 34.8 | 1229 | 200 | 77 | 4712 | 10388 | 5169 | 11396 |
| GA 160 ⁺ - 100 psi | 7.4 | 107 | 7.2 | 104 | 511 | 30.6 | 1083 | | 77 | 4712 | 10388 | 5169 | 11396 |
| GA 160 ⁺ - 125 psi | 9.1 | 132 | 8.9 | 129 | 446 | 26.7 | 945 | | 77 | 4285 | 9448 | 4742 | 10455 |
| GA 160 ⁺ - 150 psi | 10.9 | 158 | 10.7 | 155 | 397 | 23.8 | 841 | 250 | 75 | 4285 | 9448 | 4742 | 10455 |
| GA 200 - 75 psi | 5.5 | 80 | 5.3 | 77 | 711 | 42.6 | 1507 | | 77 | 4712 | 10388 | 5305 | 11696 |
| GA 200 - 100 psi | 7.4 | 107 | 7.2 | 104 | 633 | 37.9 | 1341 | | 77 | 4892 | 10785 | 5349 | 11793 |
| GA 200 - 125 psi | 9.1 | 132 | 8.9 | 129 | 576 | 34.5 | 1221 | 300 | 77 | 4465 | 9845 | 4922 | 10852 |
| GA 200 - 150 psi | 10.9 | 158 | 10.7 | 155 | 505 | 30.3 | 1070 | | 77 | 4465 | 9845 | 4922 | 10852 |
| GA 200 - 200 psi | 14 | 203 | 13.8 | 200 | 405 | 24.3 | 858 | | 75 | 4465 | 9845 | 4922 | 10852 |
| GA 250 - 100 psi | 7.4 | 107 | 7.2 | 104 | 759 | 45.5 | 1608 | 350 | 78 | 5014 | 11054 | 5607 | 12361 |
| GA 250 - 125 psi | 9.1 | 132 | 8.9 | 129 | 694 | 41.6 | 1471 | | 77 | 5014 | 11054 | 5471 | 12062 |
| GA 250 - 150 psi | 10.9 | 158 | 10.7 | 155 | 627 | 37.6 | 1329 | | 77 | 4587 | 10114 | 5044 | 11121 |
| GA 250 - 200 psi | 14 | 203 | 13.8 | 200 | 526 | 31.5 | 1115 | 350 | 77 | 4587 | 10114 | 5044 | 11121 |
| GA 315 - 100 psi | 7.4 | 107 | 7.2 | 104 | 925 | 55.4 | 1960 | | 78 | 5654 | 12465 | 6247 | 13772 |
| GA 315 - 125 psi | 9.1 | 132 | 8.9 | 129 | 855 | 51.2 | 1812 | | 78 | 5654 | 12465 | 6247 | 13772 |
| GA 315 - 150 psi | 10.9 | 158 | 10.7 | 155 | 784 | 47.0 | 1661 | 350 | 78 | 5227 | 11525 | 5820 | 12832 |
| GA 315 - 200 psi | 14 | 203 | 13.8 | 200 | 667 | 40.0 | 1414 | | 77 | 5227 | 11525 | 5684 | 12532 |

| TYPE | | Working pressure | | | | Capacity FAD (1) | | | Installed motor power | Noise level (2) | Weight | | | |
|---------------------------------|---------|------------------|------|------------------|------|-------------------------|---------------------|------------|-----------------------|-----------------|----------|-------|--------------|-------|
| | | Standard | | Full Feature (3) | | Standard / Full Feature | | | | | Standard | | Full Feature | |
| | | bar(e) | psig | bar(e) | psig | l/s | m ³ /min | cfm | | | kg | lb | kg | lb |
| GA 200 VSD - 8.6 bar (125 psi) | Minimum | 5 | 72 | 5 | 72 | 211 - 806 | 12.7 - 48.4 | 447 - 1708 | 268 | 77 | 5682 | 12527 | 6221 | 13715 |
| | Nominal | 6.9 | 100 | 6.9 | 100 | 206 - 721 | 12.4 - 43.3 | 436 - 1528 | | | | | | |
| | Maximum | 9.1 | 132 | 8.9 | 129 | 201 - 638 | 12.1 - 38.3 | 426 - 1352 | | | | | | |
| GA 200 VSD - 10.4 bar (150 psi) | Minimum | 6 | 87 | 6 | 87 | 100 - 611 | 6.0 - 36.7 | 212 - 1295 | 268 | 80 | 4352 | 9594 | 4891 | 10783 |
| | Nominal | 10.4 | 151 | 10.4 | 151 | 95 - 574 | 5.7 - 34.4 | 201 - 1216 | | | | | | |
| | Maximum | 10.9 | 158 | 10.7 | 155 | 94 - 562 | 5.6 - 33.7 | 199 - 1191 | | | | | | |
| GA 200 VSD - 13.8 bar (200 psi) | Minimum | 9 | 131 | 9 | 131 | 98 - 608 | 5.9 - 36.5 | 208 - 1288 | 268 | 80 | 4352 | 9594 | 4891 | 10783 |
| | Nominal | 13.5 | 196 | 12.5 | 181 | 86 - 505 | 5.2 - 30.3 | 182 - 1070 | | | | | | |
| | Maximum | 14 | 203 | 12.8 | 185 | 84 - 495 | 5.0 - 29.7 | 178 - 1049 | | | | | | |
| GA 250 VSD - 8.6 bar (125 psi) | Minimum | 5 | 72 | 5 | 72 | 211 - 900 | 12.7 - 54.0 | 447 - 1907 | 335 | 80 | 5682 | 12527 | 6301 | 13891 |
| | Nominal | 6.9 | 100 | 6.9 | 100 | 206 - 881 | 12.4 - 52.9 | 436 - 1867 | | | | | | |
| | Maximum | 9.1 | 132 | 8.9 | 129 | 201 - 787 | 12.1 - 47.2 | 426 - 1668 | | | | | | |
| GA 250 VSD - 10.4 bar (150 psi) | Minimum | 6 | 87 | 6 | 87 | 208 - 899 | 12.5 - 53.9 | 441 - 1905 | 335 | 77 | 5255 | 11585 | 5874 | 12950 |
| | Nominal | 10.4 | 151 | 10.4 | 151 | 197 - 733 | 11.8 - 44.0 | 417 - 1553 | | | | | | |
| | Maximum | 10.9 | 158 | 10.7 | 155 | 196 - 714 | 11.8 - 42.8 | 415 - 1513 | | | | | | |
| GA 315 VSD - 8.6 bar (125 psi) | Minimum | 5 | 72 | 5 | 72 | 211 - 1051 | 12.7 - 63.1 | 447 - 2227 | 422 | 79 | 5792 | 12769 | 6411 | 14134 |
| | Nominal | 6.9 | 100 | 6.9 | 100 | 206 - 1049 | 12.4 - 62.9 | 436 - 2223 | | | | | | |
| | Maximum | 9.1 | 132 | 8.9 | 129 | 201 - 968 | 12.1 - 58.1 | 426 - 2051 | | | | | | |
| GA 315 VSD - 10.4 bar (150 psi) | Minimum | 6 | 87 | 6 | 87 | 208 - 1050 | 12.5 - 63.0 | 441 - 2225 | 422 | 80 | 5365 | 11828 | 5984 | 13192 |
| | Nominal | 10.4 | 151 | 10.4 | 151 | 197 - 908 | 11.8 - 54.5 | 417 - 1924 | | | | | | |
| | Maximum | 10.9 | 158 | 10.7 | 155 | 196 - 886 | 11.8 - 53.2 | 415 - 1877 | | | | | | |

(1) Unit performance measured according to ISO 1217, Annex C and E, Edition 4 (2009).
 Reference conditions:
 - Absolute inlet pressure 1 bar (14.5 psi).
 - Intake air temperature 20°C (68°F).

(2) A-weighted emission sound pressure level at the work station, L_p 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. Pressure dew point of integrated refrigerant dryer at reference conditions: 2°C to 3°C (36°F to 37°F).

(3) Integrated dryer: compressed air pressure dewpoint at dryer reference conditions 3°C (37°F).

FAD (1) is measured at the following working pressures:

| | Standard | FF |
|--------------------|----------|---------|
| 75 psi version at | 73 psi | 73 psi |
| 100 psi version at | 100 psi | 100 psi |
| 125 psi version at | 125 psi | 125 psi |
| 150 psi version at | 150 psi | 150 psi |
| 200 psi version at | 196 psi | 181 psi |

DIMENSIONS

| | L | W | H |
|--------------------------------------|------|----|----|
| | inch | | |
| GA 160 ⁺ -315 A/W | 134 | 79 | 91 |
| GA 160 ⁺ -315 A - FF | 169 | 79 | 91 |
| GA 160 ⁺ -315 W - FF | 134 | 79 | 91 |
| GA 160 ⁺ -315 A/W (MV) | 146 | 79 | 91 |
| GA 160 ⁺ -315 A - FF (MV) | 181 | 79 | 91 |
| GA 160 ⁺ -315 W - FF (MV) | 146 | 79 | 91 |
| GA 200-315 VSD A | 146 | 79 | 91 |
| GA 200-315 VSD A - FF | 181 | 79 | 91 |
| GA 200-315 VSD W | 146 | 79 | 91 |
| GA 200-315 VSD W - FF | 146 | 79 | 91 |

A = air-cooled.
 W = water-cooled.
 FF = Full Feature.

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