

# Atlas Copco

Oil-injected Rotary Screw Compressors

GA 200-500 / GA 315 VSD / GR 110-200 – 50-60 Hz



*Sustainable Productivity*

**Atlas Copco**

# 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

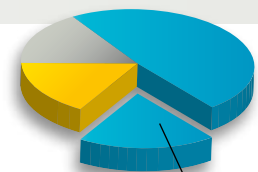
Real savings rely on facts. Atlas Copco consultants assess the air demand profile of your application and suggest the best compressor selection for the job.

### 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%.



energy savings with VSD

- investment
- maintenance
- energy

## THE HIGHEST RELIABILITY

### The experienced partner

Atlas Copco is the world leader in compressed air technology, with over 135 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.



# ... combined with the Total Reliability concept



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.



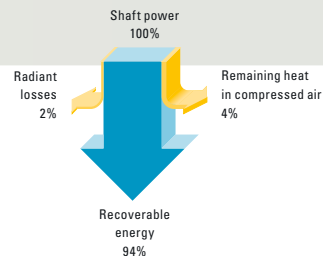
## The fully optimized system

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.



# Energy

## 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.



# Reliability

# Proven technology in one package



The GA/GR 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.

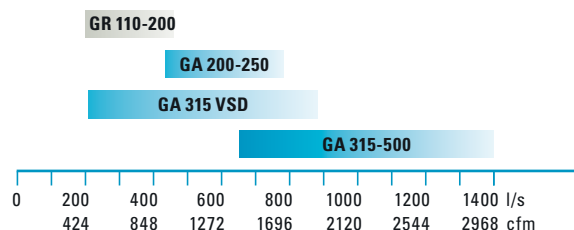
Within this range, the Total Energy Saving Concept takes solid form in the GA 315 VSD-FF compressor. It integrates a complete quality compressed air system in a compact package, featuring the ID dryer and the low energy Variable Speed Drive.

## 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 (1996)
- ⊕ 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 air-cooled versions
- ⊕ A wide range of pressure and capacity variants
- ⊕ Backed by a global sales and service organization

## Capacity range (50 & 60 Hz): air and water-cooled versions

**GA 200-315 FF, GA 315 VSD-FF,  
GA 315-500, GR 110-200 FF**



VSD: Variable Speed Drive / FF: Full Feature.  
See data pages for range details.



# A complete scope to meet every need

## Included as standard

|  |  |
|--|--|
| <input checked="" type="checkbox"/> Air intake filter                            | <input checked="" type="checkbox"/> Built-in electrical starters                           |
| <input checked="" type="checkbox"/> Air intake valve (not on VSD units)          | <input checked="" type="checkbox"/> Flexible vibration dampers                             |
| <input checked="" type="checkbox"/> Aftercooler/Oil cooler (air or water-cooled) | <input checked="" type="checkbox"/> Air/oil separator                                      |
| <input checked="" type="checkbox"/> Cooling fan for air-cooled units             | <input checked="" type="checkbox"/> Elektronikon® control system                           |
| <input checked="" type="checkbox"/> Ventilation fan for water-cooled units       | <input checked="" type="checkbox"/> Full load/no load regulation system (not on VSD units) |
| <input checked="" type="checkbox"/> Water separators                             | <input checked="" type="checkbox"/> Silencing canopy                                       |
| <input checked="" type="checkbox"/> Oil filters                                  | <input checked="" type="checkbox"/> Single point inlet and outlet connections              |
| <input checked="" type="checkbox"/> Complete air/oil/water circuit               | <input checked="" type="checkbox"/> Structural steel skid – no foundations needed          |
| <input checked="" type="checkbox"/> IP55, Class F drive motor                    |  |

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

## Available options

|  | GA 200-315 | GR 110-200 | GA 315 VSD | GA 315-500 |
|--|------------|------------|------------|------------|
| <input type="checkbox"/> Full Feature: integrated ID refrigerant dryer           | •          | •          | (1)        | na         |
| <input type="checkbox"/> Integrated DD pre-filter (only with integrated dryer)   | •          | (2)        | •          | na         |
| <input type="checkbox"/> Energy recovery   | •          | na         | •          | •          |
| <input type="checkbox"/> Modulation control                                      | •          | •          | na         | na         |
| <input type="checkbox"/> OSD oil separator (for pack/FF units) (3)               | •          | •          | •          | •          |
| <input type="checkbox"/> Oil containing frame                                    | •          | •          | na         | •          |
| <input type="checkbox"/> Electronic water drain (EWD)                            | •          | (2)        | (4)        | •          |
| <input type="checkbox"/> Heavy duty air intake filter                            | •          | •          | •          | na         |
| <input type="checkbox"/> HAT version (50°C ambient temperature)                  | (5)        | na         | na         | na         |
| <input type="checkbox"/> Phase sequence relay                                    | •          | •          | na         | •          |
| <input type="checkbox"/> PT 1000 thermal protection for main motor               | •          | •          | na         | •          |
| <input type="checkbox"/> Anti condensation heater for main motor                 | •          | •          | na         | •          |
| <input type="checkbox"/> HD oil - 8000 h oil (instead of RIF oil)                | •          | (4)        | •          | •          |
| <input type="checkbox"/> NPT connections   | (6)        | •          | na         | na         |
| <input type="checkbox"/> ANSI flanged connections                                | (7)        | na         | •          | •          |
| <input type="checkbox"/> Anchor pads   | •          | •          | •          | •          |
| <input type="checkbox"/> Performance test certificate                            | •          | •          | •          | •          |
| <input type="checkbox"/> Witnessed performance test certificate                  | •          | •          | •          | •          |
| <input type="checkbox"/> Material test certificate for pressure vessel approvals | •          | •          | •          | •          |
| <input type="checkbox"/> Sea-worthy packaging                                    | •          | •          | •          | •          |
| <input type="checkbox"/> Rain protection   | •          | •          | na         | •          |
| <input type="checkbox"/> IT/NT system  | na         | na         | •          | na         |
| <input type="checkbox"/> Tube cooler   | •          | •          | na         | na         |
| <input type="checkbox"/> SPM monitoring  | •          | •          | •          | •          |

(1) Integrated VSD refrigerant dryer  
(2) Only for GR 13 bar

(3) Effluent purity of 10 mg oil/liter  
(4) Standard

(5) Not available for 13 bar versions and FF units  
(6) Applies only to GA 90-160

(7) Applies only to GA 200-315  
na: not applicable

# GA 250 - 315 FF

## twin element series...



### GA 250 FF

Air-cooled Full Feature model



- ❶ Twin cooling fans
- ❷ Air outlet filter
- ❸ Advanced Elektronikon® control and monitoring system
- ❹ Air inlet filters
- ❺ Twin element
- ❻ Oil filters



### 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

## ...big on integration – small in footprint



### 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

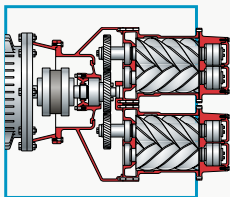
## twin element series

...for highest efficiency and reliability



### GA 400

Water-cooled 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 – IP55 protection, class F insulation

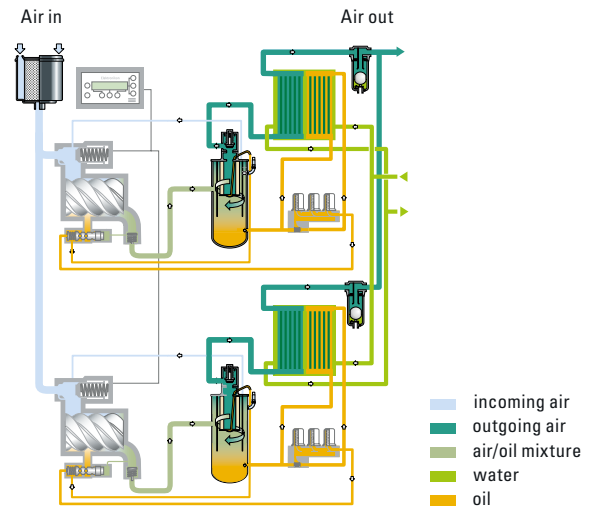
### GA 355

Air-cooled model



### GA 315W-500W air/oil/cooling flow

(loaded condition)



#### 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

# 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 13 and 20 bar, 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 20 bar version
- ⊙ GR 110, GR 132, GR 160 and GR 200 – available in 13 bar version
- ⊙ GR FF – Full Feature versions with integrated ID dryer

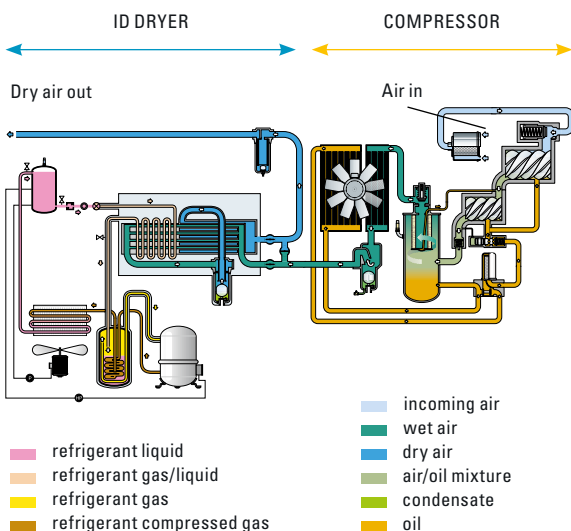


### Two-stage compression elements

- ⊙ 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)



### GR 200 FF

Air-cooled Full Feature model



- ① Full Feature (FF) version with integrated ID dryer
- ② Two-stage compression elements
- ③ Advanced condition monitoring



### 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

# GA 315 VSD-FF with Variable Speed Drive ...



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

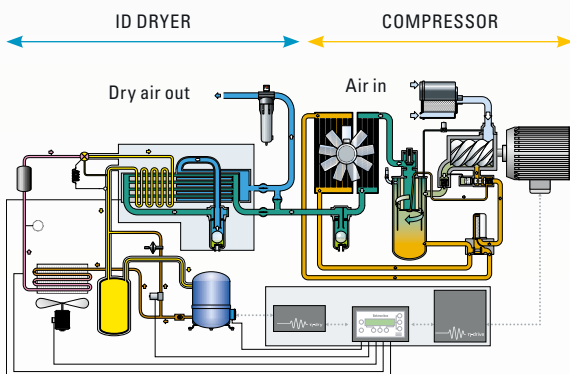
Air-cooled Full Feature model



- ❶ Advanced Elektronikon® control and monitoring system
- ❷ Highly efficient compression element

## GA 315 VSD-FF air/oil flow

(loaded condition)



- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>■ refrigerant liquid</li> <li>■ refrigerant gas/liquid</li> <li>■ refrigerant gas</li> <li>■ refrigerant compressed gas</li> </ul> | <ul style="list-style-type: none"> <li>■ incoming air</li> <li>■ wet air</li> <li>■ dry air</li> <li>■ air/oil mixture</li> <li>■ condensate</li> <li>■ oil</li> </ul> |
|---|--|



## 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

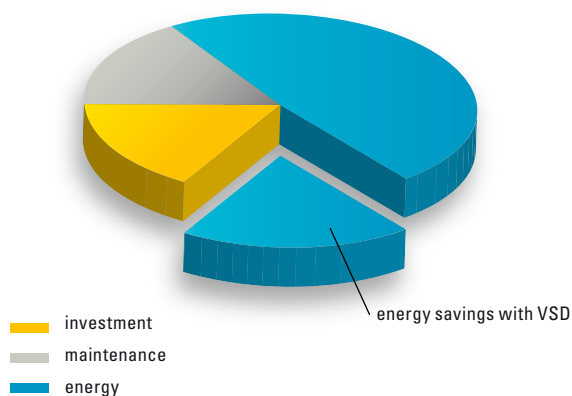
\* on GA 315 VSD-FF

# ... for the lowest cost compressed air



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.



## Predicting your savings

Call upon the expertise of Atlas Copco specialists and have an assessment carried out in your factory. A detailed report will show your current operation and the achievable savings when adding a VSD solution to your compressed air system.

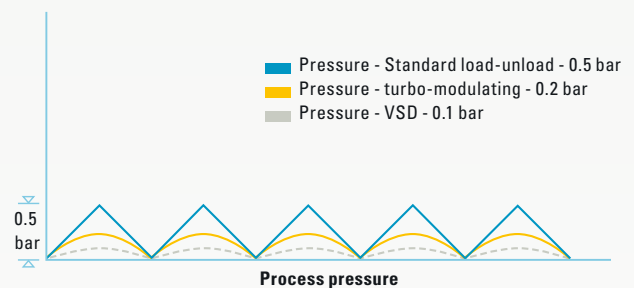


## Direct energy savings of 15 to 35%

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.

### Stable net pressure



## 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 6 bar(e) would be 13% less than at 7 bar
  - many compressed air applications consume less air at a reduced pressure, similar to leak reduction.

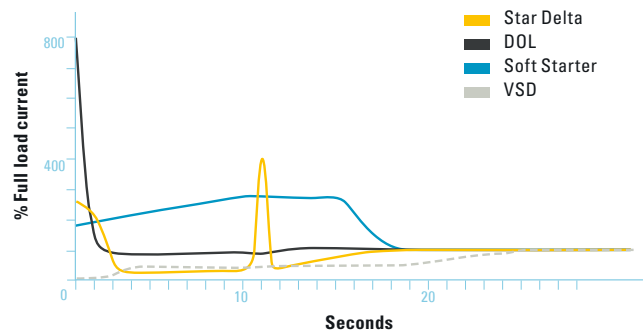
In addition to the direct savings, these indirect benefits can add up to another 10% energy savings in the complete compressed air installation.

# 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.

### No current peaks

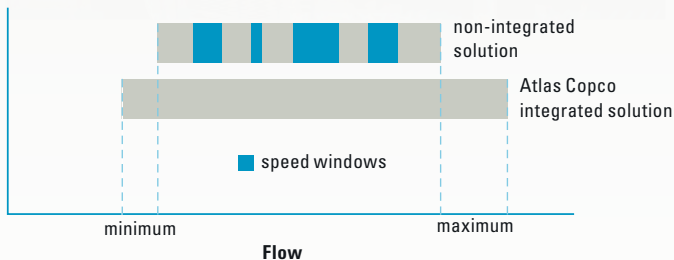


## ▶ Integrated VSD - The only way

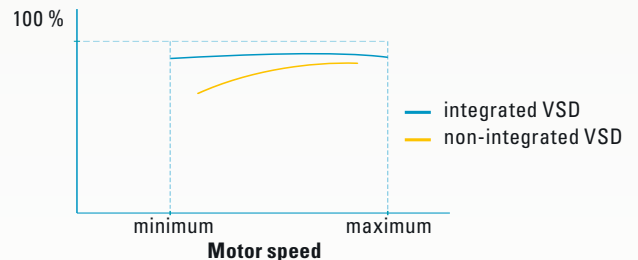


- 1 The Elektronikon® system controls both the compressor and the integrated converter; this ensures maximum machine safety and allows easy networking of the compressor.
- 2 All Atlas Copco VSD compressors are EMC tested and certified. External sources do not influence the compressor operation, nor does 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.

### Operating range



### Combined motor/converter efficiency



- ▶ 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:** 9 - 7200 l/s
- ▶ **DD prefilter:** removing bulk oil
- ▶ **DDp dust prefilter:** 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 over 170 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.
- ▶ CA 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 water-cooled variants

| Compressor type        | Maximum working pressure |      |              |      | Capacity FAD <sup>(1)</sup> |                     |      | Installed motor |     | Noise level <sup>(2)</sup> | Weight |       |              |       |
|------------------------|--------------------------|------|--------------|------|-----------------------------|---------------------|------|-----------------|-----|----------------------------|--------|-------|--------------|-------|
|                        | Pack                     |      | Full Feature |      | Pack / Full Feature         |                     |      | kW              | hp  |                            | Pack   |       | Full Feature |       |
|                        | bar(e)                   | psig | bar(e)       | psig | l/s                         | m <sup>3</sup> /min | cfm  |                 |     |                            | kg     | lb    | kg           | lb    |
| <b>GA 200-500 Twin</b> |                          |      |              |      |                             |                     |      |                 |     |                            |        |       |              |       |
| GA 200                 | 7.5                      | 109  | 7.25         | 105  | 603                         | 36.1                | 1278 | 200             | 270 | 75                         | 4727   | 10421 | 5127         | 11303 |
|                        | 8.5                      | 123  | 8.25         | 120  | 568                         | 34.0                | 1204 | 200             | 270 | 75                         | 4727   | 10421 | 5127         | 11303 |
|                        | 10                       | 145  | 9.75         | 141  | 513                         | 30.7                | 1087 | 200             | 270 | 75                         | 4727   | 10421 | 5127         | 11303 |
|                        | 13                       | 189  | 12.75        | 185  | 436                         | 26.1                | 924  | 200             | 270 | 75                         | 4727   | 10421 | 5127         | 11303 |
| GA 250                 | 7.5                      | 109  | 7.25         | 105  | 730                         | 43.7                | 1548 | 250             | 335 | 75                         | 5017   | 11060 | 5417         | 11942 |
|                        | 8.5                      | 123  | 8.25         | 120  | 697                         | 41.7                | 1477 | 250             | 335 | 75                         | 5017   | 11060 | 5417         | 11942 |
|                        | 10                       | 145  | 9.75         | 141  | 631                         | 37.8                | 1338 | 250             | 335 | 75                         | 5017   | 11060 | 5417         | 11942 |
|                        | 13                       | 189  | 12.75        | 185  | 530                         | 31.7                | 1124 | 250             | 335 | 75                         | 5017   | 11060 | 5417         | 11942 |
| GA 315                 | 7.5                      | 109  | -            | -    | 928                         | 55.8                | 1966 | 315             | 420 | 72                         | 7510   | 16559 | -            | -     |
|                        | 8.5                      | 123  | -            | -    | 864                         | 51.9                | 1831 | 315             | 420 | 72                         | 7510   | 16559 | -            | -     |
|                        | 10                       | 145  | -            | -    | 784                         | 47.1                | 1661 | 315             | 420 | 72                         | 7510   | 16559 | -            | -     |
| GA 355                 | 7.5                      | 109  | -            | -    | 1050                        | 63.1                | 2225 | 355             | 475 | 73                         | 7760   | 17110 | -            | -     |
|                        | 8.5                      | 123  | -            | -    | 969                         | 58.2                | 2053 | 355             | 475 | 73                         | 7760   | 17110 | -            | -     |
|                        | 10                       | 145  | -            | -    | 890                         | 53.5                | 1886 | 355             | 475 | 73                         | 7760   | 17110 | -            | -     |
|                        | 13                       | 189  | -            | -    | 731                         | 43.9                | 1549 | 355             | 475 | 73                         | 7760   | 17110 | -            | -     |
| GA 400                 | 7.5                      | 109  | -            | -    | 1175                        | 70.6                | 2490 | 400             | 535 | 74                         | 8360   | 18433 | -            | -     |
|                        | 8.5                      | 123  | -            | -    | 1109                        | 66.6                | 2350 | 400             | 535 | 74                         | 8360   | 18433 | -            | -     |
|                        | 10                       | 145  | -            | -    | 1011                        | 60.8                | 2142 | 400             | 535 | 74                         | 8360   | 18433 | -            | -     |
|                        | 13                       | 189  | -            | -    | 844                         | 50.7                | 1788 | 400             | 535 | 74                         | 8360   | 18433 | -            | -     |
| GA 450                 | 7.5                      | 109  | -            | -    | 1298                        | 78.0                | 2750 | 450             | 600 | 75                         | 8360   | 18433 | -            | -     |
|                        | 8.5                      | 123  | -            | -    | 1240                        | 74.5                | 2628 | 450             | 600 | 75                         | 8360   | 18433 | -            | -     |
|                        | 10                       | 145  | -            | -    | 1144                        | 68.8                | 2424 | 450             | 600 | 75                         | 8360   | 18433 | -            | -     |
|                        | 13                       | 189  | -            | -    | 960                         | 57.7                | 2034 | 450             | 600 | 75                         | 8360   | 18433 | -            | -     |
| GA 500                 | 7.5                      | 109  | -            | -    | 1410                        | 84.7                | 2988 | 500             | 670 | 76                         | 7960   | 17551 | -            | -     |
|                        | 8.5                      | 123  | -            | -    | 1347                        | 80.9                | 2854 | 500             | 670 | 76                         | 7960   | 17551 | -            | -     |
|                        | 10                       | 145  | -            | -    | 1257                        | 75.5                | 2664 | 500             | 670 | 76                         | 7960   | 17551 | -            | -     |
|                        | 13                       | 189  | -            | -    | 1068                        | 64.2                | 2263 | 500             | 670 | 76                         | 7960   | 17551 | -            | -     |

GA 500 figures are for medium voltage IP 23 motor

## GA VSD / GR compressor range - 50 Hz

|                                    |    |     |       |     |     |      |      |     |     |    |      |       |      |       |
|------------------------------------|----|-----|-------|-----|-----|------|------|-----|-----|----|------|-------|------|-------|
| <b>GA 315 VSD</b>                  |    |     |       |     |     |      |      |     |     |    |      |       |      |       |
| GA 315 VSD                         | 4  | 58  | 4     | 58  | 854 | 51.2 | 1810 | 290 | 390 | 75 | 6165 | 13563 | 6615 | 14553 |
|                                    | 7  | 109 | 7     | 109 | 847 | 50.8 | 1795 | 290 | 390 | 75 | 6165 | 13563 | 6615 | 14553 |
|                                    | 10 | 145 | 9.9   | 143 | 710 | 42.6 | 1505 | 290 | 390 | 75 | 6165 | 13563 | 6615 | 14553 |
| <b>GR 110-200 Two-stage 13 bar</b> |    |     |       |     |     |      |      |     |     |    |      |       |      |       |
| GR 110                             | 13 | 189 | 12.75 | 185 | 255 | 15.3 | 541  | 110 | 150 | 72 | 3140 | 6908  | 3470 | 7634  |
| GR 132                             | 13 | 189 | 12.75 | 185 | 308 | 18.5 | 653  | 132 | 175 | 75 | 3140 | 6908  | 3470 | 7634  |
| GR 160                             | 13 | 189 | 12.75 | 185 | 369 | 22.1 | 782  | 160 | 215 | 75 | 3547 | 7803  | 3877 | 8529  |
| GR 200                             | 13 | 189 | 12.75 | 185 | 437 | 26.2 | 926  | 200 | 270 | 76 | 3547 | 7803  | 3877 | 8529  |
| <b>GR 110-200 Two-stage 20 bar</b> |    |     |       |     |     |      |      |     |     |    |      |       |      |       |
| GR 110                             | 20 | 290 | 19.75 | 286 | 211 | 12.6 | 447  | 110 | 150 | 72 | 3140 | 6908  | 3470 | 7634  |
| GR 200                             | 20 | 290 | 19.75 | 286 | 385 | 23.1 | 816  | 200 | 270 | 75 | 3547 | 7803  | 3877 | 8529  |

(1) **Unit performance** measured according to ISO 1217 (1996)

**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
- 20 bar variants at 19 bar
- 100 psi variants at 100 psi
- 125 psi variants at 125 psi
- 150 psi variants at 150 psi
- 200 psi variants at 193 psi
- 290 psi variants at 276 psi

(2) **Noise level:**

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

**Integrated dryer:**

pressure dewpoint of integrated refrigerant dryer at reference conditions: 3 to 4°C

**Integrated filter:**

particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 mg/m<sup>3</sup>



| Compressor type | Dimensions |       |      |      |      |      |
|-----------------|------------|-------|------|------|------|------|
|                 | A          |       | B    |      | C    |      |
|                 | mm         | inch  | mm   | inch | mm   | inch |
| GA 200 - 315    | 3386       | 133.3 | 2120 | 83.4 | 2400 | 94.4 |
| GA 315 - 500A*  | 5855       | 230.5 | 2120 | 83.4 | 2500 | 98.4 |
| GA 315 - 500W*  | 4173       | 164.3 | 2120 | 83.4 | 2500 | 98.4 |
| GA 315 VSD      | 4000       | 157.4 | 2120 | 83.4 | 2400 | 94.4 |
| GR 110-200      | 2779       | 109.4 | 1886 | 74.3 | 1990 | 78.3 |

\* W = Water-cooled  
A = Air-cooled

## GA compressor range - 60 Hz: air and water-cooled variants

| Compressor type        | Maximum working pressure |      |              |      | Capacity FAD <sup>(1)</sup> |                     |      | Installed motor |     | Noise level <sup>(2)</sup><br>dB(A) | Weight    |             |              |       |
|------------------------|--------------------------|------|--------------|------|-----------------------------|---------------------|------|-----------------|-----|-------------------------------------|-----------|-------------|--------------|-------|
|                        | Pack                     |      | Full Feature |      | Pack / Full Feature         |                     |      | kW              | hp  |                                     | Pack      |             | Full Feature |       |
|                        | bar(e)                   | psig | bar(e)       | psig | l/s                         | m <sup>3</sup> /min | cfm  |                 |     |                                     | kg        | lb          | kg           | lb    |
| <b>GA 200-315 Twin</b> |                          |      |              |      |                             |                     |      |                 |     |                                     |           |             |              |       |
| GA 200-100             | 7.4                      | 107  | 7.15         | 104  | 586                         | 35.1                | 1242 | 185             | 250 | 76                                  | 4957      | 10928       | 5357         | 11810 |
| GA 200-125             | 9.1                      | 132  | 8.85         | 128  | 532                         | 32.0                | 1128 | 185             | 250 | 76                                  | 4957      | 10928       | 5357         | 11810 |
| GA 200-150             | 10.8                     | 157  | 10.55        | 153  | 483                         | 29.0                | 1024 | 185             | 250 | 76                                  | 4957      | 10928       | 5357         | 11810 |
| GA 250-100             | 7.4                      | 107  | 7.15         | 104  | 683                         | 41.0                | 1448 | 225             | 300 | 76                                  | 5057      | 11149       | 5457         | 12030 |
| GA 250-125             | 9.1                      | 132  | 8.85         | 128  | 620                         | 37.1                | 1314 | 225             | 300 | 76                                  | 5057      | 11149       | 5457         | 12030 |
| GA 250-150             | 10.8                     | 157  | 10.55        | 153  | 569                         | 34.1                | 1206 | 225             | 300 | 76                                  | 5057      | 11149       | 5457         | 12030 |
| GA 250-200             | 13.8                     | 200  | 13.55        | 196  | 477                         | 28.6                | 1011 | 225             | 300 | 76                                  | 5057      | 11149       | 5457         | 12030 |
| GA 315-100             | 7.4                      | 107  | 7.15         | 104  | 777                         | 46.5                | 1647 | 260             | 350 | 76                                  | 5257      | 11590       | 5657         | 12470 |
| GA 315-125             | 9.1                      | 132  | 8.85         | 128  | 707                         | 42.3                | 1499 | 260             | 350 | 76                                  | 5257      | 11590       | 5657         | 12470 |
| GA 315-150             | 10.8                     | 157  | 10.55        | 153  | 660                         | 39.5                | 1399 | 260             | 350 | 76                                  | 5257      | 11590       | 5657         | 12470 |
| GA 315-200             | 13.8                     | 200  | 13.55        | 196  | 555                         | 33.2                | 1177 | 260             | 350 | 76                                  | 5257      | 11590       | 5657         | 12470 |
| GA 355-100             | 7.4                      | 107  | -            | -    | 1032                        | 62.1                | 2191 | 335             | 450 | 73                                  | 7760/7860 | 17110/17331 | -            | -     |
| GA 355-125             | 9.1                      | 132  | -            | -    | 940                         | 56.5                | 1992 | 335             | 450 | 73                                  | 7760/7860 | 17110/17331 | -            | -     |
| GA 355-150             | 10.8                     | 157  | -            | -    | 831                         | 49.9                | 1761 | 335             | 450 | 73                                  | 7760/7860 | 17110/17331 | -            | -     |
| GA 355-200             | 13.8                     | 200  | -            | -    | 692                         | 41.6                | 1466 | 335             | 450 | 73                                  | 7760/7860 | 17110/17331 | -            | -     |
| GA 400-100             | 7.4                      | 107  | -            | -    | 1128                        | 67.9                | 2394 | 372             | 500 | 74                                  | 8360/7960 | 18433/17551 | -            | -     |
| GA 400-125             | 9.1                      | 132  | -            | -    | 1042                        | 62.6                | 2208 | 372             | 500 | 74                                  | 8360/7960 | 18433/17551 | -            | -     |
| GA 400-150             | 10.8                     | 157  | -            | -    | 935                         | 56.2                | 1981 | 372             | 500 | 74                                  | 8360/7960 | 18433/17551 | -            | -     |
| GA 400-200             | 13.8                     | 200  | -            | -    | 784                         | 47.1                | 1661 | 372             | 500 | 74                                  | 8360/7960 | 18433/17551 | -            | -     |
| GA 450-100             | 7.4                      | 107  | -            | -    | 1334                        | 80.4                | 2835 | 447             | 600 | 75                                  | 8360/8620 | 18433/19007 | -            | -     |
| GA 450-125             | 9.1                      | 132  | -            | -    | 1222                        | 73.4                | 2589 | 447             | 600 | 75                                  | 8360/8620 | 18433/19007 | -            | -     |
| GA 450-150             | 10.8                     | 157  | -            | -    | 1126                        | 67.7                | 2386 | 447             | 600 | 75                                  | 8360/8620 | 18433/19007 | -            | -     |
| GA 450-200             | 13.8                     | 200  | -            | -    | 943                         | 56.7                | 1998 | 447             | 600 | 75                                  | 8360/8620 | 18433/19007 | -            | -     |
| GA 500-100             | 7.4                      | 107  | -            | -    | 1518                        | 91.2                | 3217 | 522             | 700 | 76                                  | 7960      | 17551       | -            | -     |
| GA 500-125             | 9.1                      | 132  | -            | -    | 1404                        | 84.4                | 2975 | 522             | 700 | 76                                  | 7960      | 17551       | -            | -     |
| GA 500-150             | 10.8                     | 157  | -            | -    | 1296                        | 77.9                | 2746 | 522             | 700 | 76                                  | 7960      | 17551       | -            | -     |
| GA 500-200             | 13.8                     | 200  | -            | -    | 1114                        | 66.9                | 2361 | 522             | 700 | 76                                  | 7960      | 17551       | -            | -     |

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

| <b>GA 315 VSD</b>                  |      |     |       |     |     |      |      |     |     |    |      |       |      |       |
|------------------------------------|------|-----|-------|-----|-----|------|------|-----|-----|----|------|-------|------|-------|
| GA 315 VSD                         | 4    | 58  | 4     | 58  | 854 | 51.2 | 1810 | 290 | 390 | 75 | 6165 | 13563 | 6615 | 14553 |
|                                    | 7    | 109 | 7     | 109 | 847 | 50.8 | 1795 | 290 | 390 | 75 | 6165 | 13563 | 6615 | 14553 |
|                                    | 10   | 145 | 9.9   | 143 | 710 | 42.6 | 1505 | 290 | 390 | 75 | 6165 | 13563 | 6615 | 14553 |
| <b>GR 110-200 Two-stage 13 bar</b> |      |     |       |     |     |      |      |     |     |    |      |       |      |       |
| GR 110-200                         | 13.8 | 200 | 13.55 | 196 | 261 | 15.6 | 553  | 110 | 150 | 72 | 3140 | 6908  | 3470 | 7634  |
| GR 160-200                         | 13.8 | 200 | 13.55 | 196 | 350 | 21.0 | 742  | 150 | 200 | 75 | 3547 | 7803  | 3877 | 8529  |
| GR 200-200                         | 13.8 | 200 | 13.55 | 196 | 442 | 26.5 | 937  | 185 | 250 | 78 | 3547 | 7803  | 3877 | 8529  |
| <b>GR 110-200 Two-stage 20 bar</b> |      |     |       |     |     |      |      |     |     |    |      |       |      |       |
| GR 110-290                         | 20   | 290 | 19.75 | 286 | 224 | 13.4 | 475  | 110 | 150 | 72 | 3140 | 6908  | 3470 | 7634  |
| GR 200-290                         | 20   | 290 | 19.75 | 286 | 384 | 23.0 | 814  | 185 | 250 | 78 | 3547 | 7803  | 3877 | 8529  |

(1) **Unit performance** measured according to ISO 1217 (1996)

### 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
- 20 bar variants at 19 bar
- 100 psi variants at 100 psi
- 125 psi variants at 125 psi
- 150 psi variants at 150 psi
- 200 psi variants at 193 psi
- 290 psi variants at 276 psi

(2) **Noise level:**

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

### Integrated dryer:

pressure dewpoint of integrated refrigerant dryer at reference conditions: 3 to 4°C

### Integrated filter:

particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 mg/m<sup>3</sup>



| Compressor type | Dimensions |       |      |      |      |      |
|-----------------|------------|-------|------|------|------|------|
|                 | A          |       | B    |      | C    |      |
|                 | mm         | inch  | mm   | inch | mm   | inch |
| GA 200 - 315    | 3386       | 133.3 | 2120 | 83.4 | 2400 | 94.4 |
| GA 315 - 500A*  | 5855       | 230.5 | 2120 | 83.4 | 2500 | 98.4 |
| GA 315 - 500W*  | 4173       | 164.3 | 2120 | 83.4 | 2500 | 98.4 |
| GA 315 VSD      | 4000       | 157.4 | 2120 | 83.4 | 2400 | 94.4 |
| GR 110-200      | 2779       | 109.4 | 1886 | 74.3 | 1990 | 78.3 |

\* W = Water-cooled

A = Air-cooled



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