Atlas Copco Air Compressors

GA90-500 & GR110-200

Oil-injected rotary screw compressor series with Full Feature & Variable Speed Drive versions



ALL-IN-ONE PACKAGE



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 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.

Energy Circle



The right core technology

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



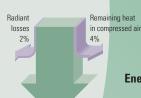
The best drive arrangement

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

The lowest operating cost



Shaft power 100%



Recoverable energy 94%

Energy recovery

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



The fully optimized system

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

The highest reliability

The professional follow-up

An Atlas Copco Service Contract will ensure you of the correct preventative maintenance, immediate response and genuine spare parts... all over the globe.



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.



... 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.



Reliability Circle

The experienced partner

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



The complete solution

Compressor, dryer, drive, filters, control system... they all carry the same mark of quality: the Atlas Copco logo.

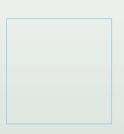
The integrated design

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



























Pushing the limits in reliability

Proven technology in one package

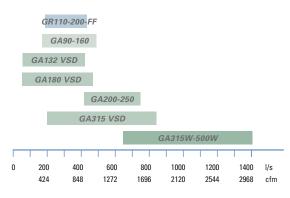
The GA/GR90-500 range comprises a series of no-nonsense machines with a robust and reliable design, easy to service and environmentally friendly. They are the culmination of decades of continuous improvement, radical innovation and interaction with the customer.

Within this range, the Total Energy Saving Concept takes solid form in the GA132/180 VSD and 315 VSD-FF compressors. They integrate 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
- O Easy, low cost installation no foundations
- O True performance according to ISO 1217, Annex C, ed. 3
- Cost-effective and reliable Elektronikon® monitoring and control system
- O Single-stage, twin-element and two-stage HP versions
- Proven reliability
- O Straightforward and minimal maintenance
- Operator and service-friendly
- O Silenced package environment friendly
- Optional energy recovery system
- O Water and aircooled versions (except GA315W-500W)
- A wide range of pressure and capacity variants
- Backed by a global sales and service organisation

Capacity range (50 & 60 Hz)
GA90-315-FF, GA132/180/315 VSD-FF, GA315W-500W, GR110-200-FF



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



GR200-FF Two-stage high pressure version



GA110-FF Single-stage version



GA180 VSD Variable Speed Drive version



GA250-FF Twin element version



GA315 VSD-FF Variable Speed Drive version



A complete scope to meet every need

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

Included as standard

☑ Air intake filter	
☐ Air intake valve (not on VSD units)	☑ Built-in electrical starters
✓ Aftercooler/Oilcooler (air or watercooled)	
✓ Cooling fan for aircooled units	☑ Air/oil separator
✓ Ventilation fan for watercooled units	☑ Elektronikon® control system
	✓ Full load/no load regulation system (not on VSD units)
☑ Oil filters	☑ Silencing canopy
	☑ Single point inlet and outlet connections
☑ IP 55, Class F drive motor	

Available options	GA90-315	GR110-200	GA132 VSD	GA180 VSD	GA315 VSD	GA315W-500W
Full Feature: integrated ID refrigerant dryer	•	•	•	•	(1)	na
Integrated DD pre-filter (only with integrated dryer)	•	(2)	•	•	•	na
Energy recovery	•	na	na	na	•	•
Modulation control	•	•	na	na	na	•
OSD oil separator (for pack/FF units) (3)	•	•	•	•	•	•
Oil containing frame	•	•	•	•	na	•
Electronic water drain (EWD)	•	(2)	•	•	(4)	•
Heavy duty air intake filter	•	•	•	•	•	•
HAT version (50°C ambient temperature)	(5)	na	na	na	na	•
Phase sequence relay	•	•	na	na	na	•
PT 1000 thermal protection for main motor	•	•	na	na	na	•
Anti condensation heater for main motor	•	•	na	na	na	•
HD oil - 8000 h oil (instead of RIF oil)	•	(4)	•	•	•	•
NPT connections	(6)	•	•	•	na	na
ANSI flanged connections	(7)	na	na	na	•	•
Anchor pads	•	•	•	•	•	•
Performance test certificate	•	•	•	•	•	•
Witnessed performance test certificate	•	•	•	•	•	•
Material test certificate for pressure vessel approvals	•	•	•	•	•	•
Sea-worthy packaging	•	•	•	•	•	•
Rain protection	•	•	na	na	na	•
IT/NT system	na	na	•	•	•	na
Tube cooler	•	•	na	na	na	•
SPM monitoring	•	•	•	•	•	•
(1) Integrated VSD refrigerant driver (5) Not available for 13 har versions and FF units						

(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 GA90-160

(7) Applies only to GA200-315

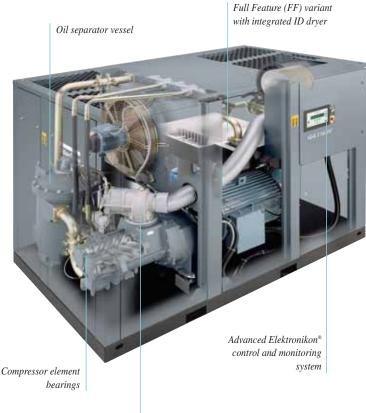
na: not applicable

GA90-160-FF

single-stage series...

GA110-FF

Aircooled Full Feature model



Regulation system

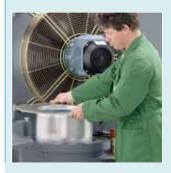


Designed for optimal performance

 Split positioning of components in the cool or warm half for ultimate efficiency and maximum capacity

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

... big on integration — small in footprint



Moisture separator as standard

 a cyclonic moisture separator, with automatic and manual drain, mounted as standard, after the cooler block

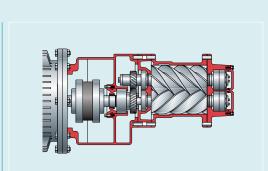
Full Feature variant for dry air with integrated ID dryer

- ▶ by-pass system as standard
- ► R404A refrigerant meets environmental regulations
- quality end product and system protection



Advanced Elektronikon® control and monitoring system

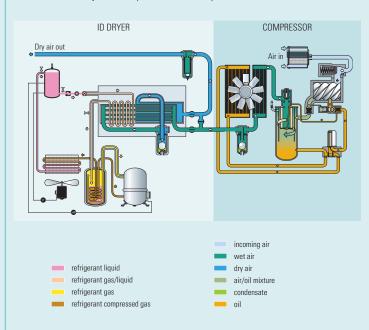
- overall system performance status with pro-active service indications,
 alarms for malfunctions and safety shutdowns
- ▶ multi-language selectable display
- ▶ all monitoring and control functions via one interface
- ▶ wide communication possibilities
- ▶ integration possible in many process control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



Motor and compressor permanently aligned

- unlike belt-driven compressors, GA/GR compressors incorporate a flanged motor/coupling housing - gearbox/element, offering permanent alignment during transport, installation and operation of the unit.
- highly efficient, totally enclosed fan-cooled electric motor
 (IP55, Class F)

GA 90-160-FF air/oil flow (loaded condition)





GA200-315-FF & GA315W-500W

Air inlet filters

twin element series ...

Advanced Elektronikon® control and monitoring system Air cooled Full Feature model Air outlet filter

Twin element

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)

Easy oil filter exchange

▶ position of the spin on/off cartridge type oil filters allows for clean and easy exchange, without oil spills





GA400W

Watercooled model

Oil filters





Twin element design

- larger volume of air delivered,
 using less power, compared to
 equivalent compressor sizes
- Atlas Copco guaranteed production, quality control and service



Protective air filtration

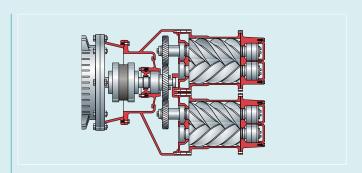
- highly efficient dry paper cartridge
- ► compressor protection from foreign particles (99.9 % for 3 micron – SAE fine)
- extends system lifetime

... for highest efficiency and reliability

Dry quality air to the application point*

- ▶ air outlet filter fitted as standard
- ▶ particle removal down to 1 micron; maximum remaining oil aerosol of 0.1 mg/m³
- * for GA200-315-FF versions

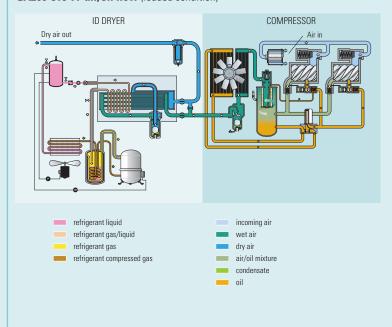




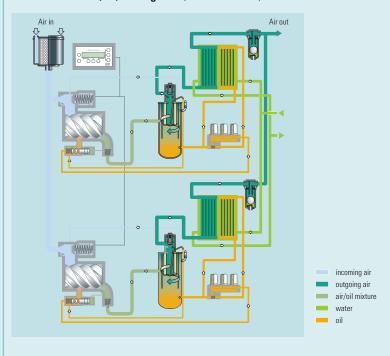
Twin element on single drive & gear casing

- ▶ 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

GA200-315-FF air/oil flow (loaded condition)



GA315W-500W air/oil/cooling flow (loaded condition)



GR110-200-FF

two-stage high pressure series ...

For high pressure applications requiring a reliable air supply of 13 and 20 bar, the Atlas Copco GR110-200-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

- ► GR110 and GR200 available in 20 bar version
- ▶ GR110, GR132, GR160 and GR200 available in 13 bar version
- ▶ GR-FF Full Feature versions with integrated ID dryer

Advanced condition monitoring

 one integrated control and monitoring system for compressor and dryer





GR200-FF

Aircooled Full Feature model

Two-stage compression elements

... in 13 bar and 20 bar versions

GR Full Feature: compact 'all-in-one' package

- optional dry quality air variant, with integratedID 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 GA90-315 series
- ▶ built for high pressure applications
- ▶ very complete pack unit options available
- ▶ air or water cooled version

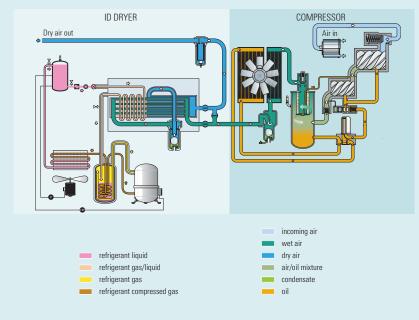




Two-stage compression elements

- ▶ increased efficiency and reliability
- extended element lifetime due to reduced load on bearings, rotors and gears

GR110-200-FF air/oil flow (loaded condition)



GA132/180 VSD & GA315 VSD-FF

with Variable Speed Drive ...

The GA132/180/315 VSD houses the famous VSD variable drive system that brings an unprecedented level of energy savings. In addition, the GA315 VSD-FF incorporates a VSD regulated ID refrigeration dryer to further reduce the energy consumption.

GA315 VSD-FF

Aircooled Full Feature model

Advanced Elektronikon® control and monitoring system



Most efficient element performance

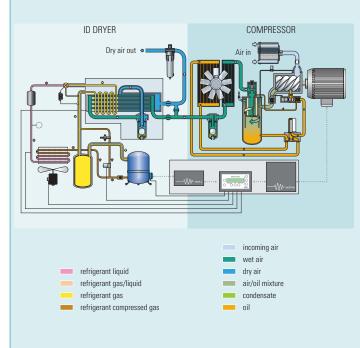
- longer active rotor length allows larger air volume to be compressed
- ▶ higher built-in pressure ratio for higher efficiency

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 GA315 VSD-FF



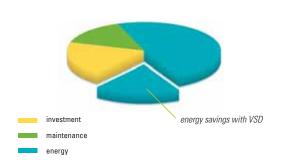
GA315 VSD-FF air/oil flow (loaded condition)



... 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.

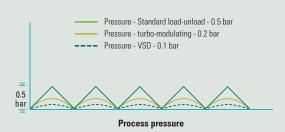
A detailed report will show your current operation and the achievable savings when adding a VSD solution to your compressed air system.



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



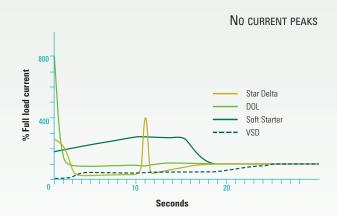
Indirect savings

- ► 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.

Additional VSD benefits

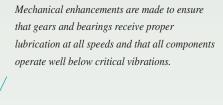
- The constant net pressure provides stability for all processes making use of compressed air.
- Current peaks during start-up are eliminated
 - VSD compressors can be started and stopped without limitation
 - frequent start-stops no longer lead to current peak penalties
 - the electrical installation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



Integrated VSD - The only way

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.

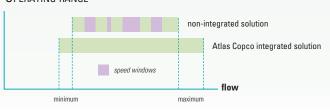
The Elektronikon® system controls both the compressor and the integrated converter; this ensures maximum machine safety and allows easy networking of the compressor.



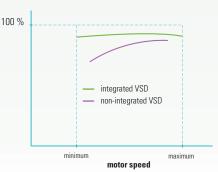
Special attention is given to the electric motor, which is specifically designed for VSD operation (inverter duty motors). Bearings are protected against induced bearing currents and both motor and converter are perfectly tuned to obtain the best efficiency over the entire speed range.

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.

OPERATING RANGE



COMBINED MOTOR/CONVERTER EFFICIENCY





Optimize your installation

Global presence - local service

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 systems reliability and quality.



DD/DDp/PD/PDp/QD Filters

For proper removal of oil vapour and particles, select the adequate filter from the Atlas Copco filter range

- ▶ Nominal airflow: 9 7200 l/s
- ▶ **DD coalescing filter:** removing oil aerosol to 0.1 mg/m³ (0.1 ppm) and particles down to 1 micron
- ▶ **DDp dust filter:** removing particles down to 1 micron
- ▶ PD coalescing filter: removing oil aerosol to 0.01 mg/m³ (0.01 ppm) and particles down to 0.01 micron
- ▶ PDp dust filter: high efficiency particle removal down to 0.01 micron
- ► **QD oil vapour filter:** maximum remaining oil content of 0.003 mg/m³ (0.003 ppm).



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.

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

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

GA compressor range - 50 Hz

Compressor	Maximum working pressure					Capacity FAD (1)			Installed motor		Weight			
type	Pack		Full Fo	eature	Pac	k / Full Fea	nture	IIIC	otor	level (2)	Pack		Full F	eature
GA90-160 Single-stage	bar(e)	psig	bar(e)	psig	I/s	m³/ min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
0 0														
GA90 - 7.5	7.5	109	7.25	105	277	16.6	587	90	125	72	2515	5545	2825	6228
GA90 - 8.5	8.5	123	8.25	120	260	15.6	551	90	125	72	2515	5545	2825	622
GA90 - 10	10	145	9.75	141	232	13.9	492	90	125	72	2515	5545	2825	622
GA90 - 13	13	189	12.75	185	185	11.1	392	90	125	72	2515	5545	2825	622
GA110 - 7.5	7.5	109	7.25	105	334	20.0	708	110	150	72	2515	5545	2825	622
GA110 - 8.5	8.5	123	8.25	120	313	18.8	663	110	150	72	2515	5545	2825	622
GA110 - 10	10	145	9.75	141	285	17.1	604	110	150	72	2515	5545	2825	622
GA110 - 13	13	189	12.75	185	225	13.5	477	110	150	72	2515	5545	2825	622
GA132 - 7.5	7.5	109	7.25	105	401	24.1	850	132	175	74	3025	6669	3355	739
GA132 - 8.5	8.5	123	8.25	120	381	22.9	807	132	175	74	3025	6669	3355	739
GA132 - 10	10	145	9.75	141	345	20.7	731	132	175	74	3025	6669	3355	739
GA132 - 13	13	189	12.75	185	280	16.8	593	132	175	74	3025	6669	3355	739
GA160 - 7.5	7.5	109	7.25	105	472	28.3	1000	160	215	74	3025	6669	3355	739
GA160 - 8.5	8.5	123	8.25	120	450	27.0	953	160	215	74	3025	6669	3355	739
GA160 - 10	10	145	9.75	141	410	24.6	869	160	215	74	3025	6669	3355	739
GA160 - 13	13	189	12.75	185	342	20.5	725	160	215	74	3025	6669	3355	739
GA200-500 Twin														
GA200 - 7.5	7.5	109	7.25	105	603	36.1	1278	200	270	75	4727	10421	5127	113
GA200 - 8.5	8.5	123	8.25	120	568	34.0	1204	200	270	75	4727	10421	5127	113
GA200 - 10	10	145	9.75	141	513	30.7	1087	200	270	75	4727	10421	5127	113
GA200 - 13	13	189	12.75	185	436	26.1	924	200	270	75	4727	10421	5127	113
GA250 - 7.5	7.5	109	7.25	105	730	43.7	1548	250	335	75	5017	11060	5417	119
GA250 - 8.5	8.5	123	8.25	120	697	41.7	1477	250	335	75	5017	11060	5417	119
GA250 - 10	10	145	9.75	141	631	37.8	1338	250	335	75	5017	11060	5417	119
GA250 - 13	13	189	12.75	185	530	31.7	1124	250	335	75	5017	11060	5417	119
GA315W - 7.5	7.5	109	-	-	928	55.8	1966	315	420	72	7510	16559	-	-
GA315W - 8.5	8.5	123	-	-	864	51.9	1831	315	420	72	7510	16559	-	-
GA315W - 10	10	145	-	-	784	47.1	1661	315	420	72	7510	16559	-	_
GA355W - 7.5	7.5	109	-	-	1050	63.1	2225	355	475	73	7760	17110	-	-
GA355W - 8.5	8.5	123	-	-	969	58.2	2053	355	475	73	7760	17110	-	-
GA355W - 10	10	145	-	-	890	53.5	1886	355	475	73	7760	17110	-	-
GA355W - 13	13	189	-	-	731	43.9	1549	355	475	73	7760	17110	-	-
GA400W - 7.5	7.5	109	_	_	1175	70.6	2490	400	535	74	8360	18433	_	_
GA400W - 8.5	8.5	123			1109	66.6	2350	400	535	74	8360	18433		
GA400W - 0.5	10	145	-		1011	60.8	2142	400	535	74	8360	18433	-	
GA400W-13	13	189	-	-	844	50.7	1788	400	535	74	8360	18433	-	_
GA450W - 7.5	7.5	109	-	-	1298	78.0	2750	450	600	75	8360	18433	-	-
GA450W - 8.5	8.5	123	-	-	1240	74.5	2628	450	600	75	8360	18433	-	-
GA450W - 10	10	145	-	-	1144	68.8	2424	450	600	75	8360	18433	-	-
GA450W - 13	13	189	-	-	960	57.7	2034	450	600	75	8360	18433	-	-
GA500W-7.5	7.5	109	_	-	1410	84.7	2988	500	670	76	7960	17551	_	-
GA500W-8.5	8.5	123	-	-	1347	80.9	2854	500	670	76	7960	17551	-	-
GA500W-10	10	145	-	-	1257	75.5	2664	500	670	76	7960	17551	-	-
GA500W-13	13	189	-	-	1068	64.2	2263	500	670	76	7960	17551	-	-

GA500W figures are for medium voltage IP 23 motor

W: watercooled

GA-VSD / GR compressor range - 50 Hz

Compressor	Maxin	num woi	rking pres	sure	Ca	Capacity FAD (1)			Installed		Weight			
type	Pa	ick	Full Fe	eature	Pac	k / Full Fea	iture	mo	tor	level (2)	Pack		Full F	eature
	bar(e)	psig	bar(e)	psig	I/s	m³/ min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
GA132/180/315 VSD														
GA132 VSD - 4	4	58	-	-	404	24.2	856	132	177	75	3870	8533	4200	9261
GA132 VSD - 7	7	109	-	-	399	23.9	846	132	177	75	3870	8533	4200	9261
GA132 VSD - 10	10	145	-	-	355	21.3	752	132	177	75	3870	8533	4200	9261
GA132 VSD - 13	13	200	-	-	300	18.0	636	132	177	73	3870	8533	4200	9261
GA180 VSD - 4	4	58	_	-	482	28.9	1021	180	250	75	3870	8533	4200	9261
GA180 VSD - 7	7	109	-	-	478	28.7	1013	180	250	75	3870	8533	4200	926
GA180 VSD - 10	10	145	-	-	418	25.1	886	180	250	75	3870	8533	4200	926
GA180 VSD - 13	13	200	-	-	352	21.1	746	180	250	73	3870	8533	4200	926
GA315 VSD - 4	4	58	-	-	854	51.2	1810	290	390	75	6165	13563	6615	1455
GA315 VSD - 7	7	109	-	-	847	50.8	1795	290	390	75	6165	13563	6615	145
GA315 VSD - 10	10	145	-	-	710	42.6	1505	290	390	75	6165	13563	6615	145
GR110-200 Two-stage	13 bar													
GR110-13	13	189	12.75	185	255	15.3	541	110	150	72	3140	6908	3470	763
GR132-13	13	189	12.75	185	308	18.5	653	132	175	75	3140	6908	3470	763
GR160-13	13	189	12.75	185	369	22.1	782	160	215	75	3547	7803	3877	852
GR200-13	13	189	12.75	185	437	26.2	926	200	270	76	3547	7803	3877	852
GR110-200 Two-stage	20 bar													
GR110-20	20	290	19.75	286	211	12.6	447	110	150	72	3140	6908	3470	763
GR200-20	20	290	19.75	286	385	23.1	816	200	270	75	3547	7803	3877	852

(1) Unit performance measured according to ISO 1217, Ed.3, Annex C-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
 105 psi variants at 125 psi variants at 125 psi
 10 bar variants at 9.5 bar
 150 psi variants at 150 psi
- 13 bar variants at 12.5 bar 200 psi variants at 193 psi 20 bar variants at 19 bar 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 $^{\circ}\text{C}$

ntegrated filter

particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 $\mbox{mg/m}^{3}$



Dimensions

Compressor	Dimensions									
type		Α		В	C					
	mm	inch	mm	inch	mm	inch				
GA90 - 110	2779	109.4	1600	63.0	1990	78.3				
GA132 - 160	2779	109.4	1886	74.3	1990	78.3				
GA200 - 315	3386	133.3	2120	83.4	2400	94.4				
GA315W-500W	4173	164.3	2120	83.4	2500	98.4				
GA132 VSD	3386	133.3	1886	74.2	2010	79.1				
GA180 VSD	3386	133.3	1886	74.2	2010	79.1				
GA315 VSD	4000	157.4	2120	83.4	2400	94.4				
GR110-200	2779	109.4	1886	74.3	1990	78.3				

GA compressor range - 60 Hz

Compressor	Maxin	num woi	rking pres	sure	Capacity FAD (1)			Installed		Noise	Weight			
type	Pa	Pack		Full Feature		k / Full Fea	ature	mo	otor	level (2)	Pack		Full F	eature
	bar(e)	psig	bar(e)	psig	I/s	m³/ min	cfm	kW	hp	dB(A)	kg	lb	kg	lb
GA90-160 Single-sta	ge								•					
GA90 - 100	7.4	107	7.15	104	298	17.9	631	90	125	76	2515	5545	2825	6228
GA90 - 125	9.1	132	8.85	128	264	15.8	559	90	125	76	2515	5545	2825	6228
GA90 - 150	10.8	157	10.55	153	239	14.3	506	90	125	76	2515	5545	2825	6228
GA90 - 200	13.8	200	13.55	196	191	11.5	405	90	125	76	2515	5545	2825	6228
GA110 - 100	7.4	107	7.15	104	353	21.2	748	110	150	76	2515	5545	2825	6228
GA110 - 125	9.1	132	8.85	128	314	18.8	665	110	150	76	2515	5545	2825	6228
GA110 - 150	10.8	157	10.55	153	289	17.3	612	110	150	76	2515	5545	2825	6228
GA110 - 200	13.8	200	13.55	196	231	13.9	489	110	150	76	2515	5545	2825	6228
GA160 - 100	7.4	107	7.15	104	467	28.0	989	150	200	76	3025	6669	3355	7397
GA160 - 125	9.1	132	8.85	128	420	25.2	890	150	200	76	3025	6669	3355	7397
GA160 - 150	10.8	157	10.55	153	390	23.4	826	150	200	76	3025	6669	3355	7397
GA160 - 130	13.8	200	13.55	196	320	19.2	678	150	200	76	3025	6669	3355	7397
	10.0	200	10.55	130	020	10.2	070	130	200	70	0023	0003	0000	700
GA200-315 Twin														
GA200 - 100	7.4	107	7.15	104	586	35.1	1242	185	250	76	4957	10928	5357	1181
GA200 - 125	9.1	132	8.85	128	532	32.0	1128	185	250	76	4957	10928	5357	1181
GA200 - 150	10.8	157	10.55	153	483	29.0	1024	185	250	76	4957	10928	5357	1181
GA250 - 100	7.4	107	7.15	104	683	41.0	1448	225	300	76	5057	11149	5457	1203
GA250 - 125	9.1	132	8.85	128	620	37.1	1314	225	300	76	5057	11149	5457	1203
GA250 - 150	10.8	157	10.55	153	569	34.1	1206	225	300	76	5057	11149	5457	1203
GA250 - 200	13.8	200	13.55	196	477	28.6	1011	225	300	76	5057	11149	5457	1203
GA315 - 100	7.4	107	7.15	104	777	46.5	1647	260	350	76	5257	11590	5657	1247
GA315 - 125	9.1	132	8.85	128	707	42.3	1499	260	350	76	5257	11590	5657	1247
GA315 - 150	10.8	157	10.55	153	660	39.5	1399	260	350	76	5257	11590	5657	1247
GA315 - 200	13.8	200	13.55	196	555	33.2	1177	260	350	76	5257	11590	5657	1247
GA355W-100	7.4	107	_	_	1032	62.1	2191	335	450	73	7760/7960	17110/17331	_	
GA355W-125	9.1	132			940	56.5	1992	335	450	73		17110/17331	-	
GA355W-150	10.8	157	-		831	49.9	1761	335	450	73		17110/17331	-	
GA355W-200	13.8	200	-	-	692	41.6	1466	335	450	73		17110/17331	-	-
GA400W - 100				_										
GA400W - 100	7.4 9.1	107 132	-		1128 1042	67.9 62.6	2394 2208	372 372	500 500	74 74		18433/17551 18433/17551	-	-
GA400W - 125	10.8	157	-	-	935	56.2	1981	372	500	74		18433/17551	-	
GA400W - 150	13.8	200			784	47.1	1661	372	500	74		18433/17551	-	
GA450W - 100	7.4	107	-	-	1334	80.4	2835	447	600	75		18433/19007	-	-
GA450W - 125	9.1	132	-	-	1222	73.4	2589	447	600	75		18433/19007	-	-
GA450W - 150	10.8	157	-	-	1126	67.7	2386	447	600	75		18433/19007	-	-
GA450W - 200	13.8	200	-	-	943	56.7	1998	447	600	75	ช3bU/8b20	18433/19007	-	
GA500W-100	7.4	107	-	-	1518	91.2	3217	522	700	76	7960	17551	-	-
GA500W-125	9.1	132	-	-	1404	84.4	2975	522	700	76	7960	17551	-	-
GA500W-150	10.8	157	-	-	1296	77.9	2746	522	700	76	7960	17551	-	-
GA500W-200	13.8	200	-	-	1114	66.9	2361	522	700	76	7960	17551	-	-

GA500W figures are for medium voltage IP 23 motor

GA355W-GA400W-GA450W: two different motor types used for IEC/CSA-UL at 60Hz low voltage

W: watercooled

GA-VSD / GR compressor range - 60 Hz

Compressor	Maxin	Maximum working pressure					Capacity FAD (1)			Noise	Weight						
type	Pa	ck	Full Fe	eature	Pac	k / Full Fea	iture	mo	motor		otor level (2)		Pack		Full F	Full Feature	
GA180 / GA315 VSD	bar(e)	psig	bar(e)	psig	I/s	m³/ min	cfm	kW	hp	dB(A)	kg	lb	kg	lb			
GA132 VSD - 4	4	58	-	-	404	24.2	856	132	177	75	3870	8533	4200	9261			
GA132 VSD - 7	7	109	-	-	399	23.9	846	132	177	75	3870	8533	4200	9261			
GA132 VSD - 10	10	145	-	-	355	21.3	752	132	177	75	3870	8533	4200	9261			
GA132 VSD - 13	13	200	-	-	300	18.0	636	132	177	73	3870	8533	4200	9261			
GA180 VSD - 4	4	58	-	-	482	28.9	1021	180	250	75	3870	8533	4200	9261			
GA180 VSD - 7	7	109	-	-	478	28.7	1013	180	250	75	3870	8533	4200	9261			
GA180 VSD - 10	10	145	-	-	418	25.1	886	180	250	75	3870	8533	4200	9261			
GA180 VSD - 13	13	200	-	-	352	21.1	746	180	250	73	3870	8533	4200	9261			
GA315 VSD - 4	4	58	-	-	854	51.2	1810	290	390	75	6165	13563	6615	14553			
GA315 VSD - 7	7	109	-	-	847	50.8	1795	290	390	75	6165	13563	6615	14553			
GA315 VSD - 10	10	145	-	-	710	42.6	1505	290	390	75	6165	13563	6615	14553			
GR110-200 Two-stage	13 bar																
GR110-200	13.8	200	13.55	196	261	15.6	553	110	150	72	3140	6908	3470	7634			
GR160-200	13.8	200	13.55	196	350	21.0	742	150	200	75	3547	7803	3877	8529			
GR200-200	13.8	200	13.55	196	442	26.5	937	185	250	78	3547	7803	3877	8529			
GR110-200 Two-stage	20 bar																
GR110-290	20	290	19.75	286	224	13.4	475	110	150	72	3140	6908	3470	7634			
GR200-290	20	290	19.75	286	384	23.0	814	185	250	78	3547	7803	3877	8529			

(1) Unit performance measured according to ISO 1217, Ed.3, Annex C-1996

Reference conditions:

- absolute inlet pressure 1 bar (14.5 psi)
- intake air temperature 20 °C (68 °F)

$\textbf{FAD} \ \text{is measured at the following working pressures:} \\$

 - 7.5 bar variants at 7 bar
 - 100 psi variants at 100 psi

 - 8.5 bar variants at 8 bar
 - 125 psi variants at 125 psi

 - 10 bar variants at 9.5 bar
 - 150 psi variants at 150 psi

 - 13 bar variants at 12.5 bar
 - 200 psi variants at 193 psi

 - 20 bar variants at 19 bar
 - 290 psi variants at 276 psi

(2) Noise level:

measured according to Pneurop / Cagi PN8NTC2.2 test code; tolerance $\pm 3~\text{dB(A)}$

Integrated dryer:

pressure dewpoint of integrated refrigerant dryer at reference conditions: 3 to 4 $^{\circ}\text{C}$

Integrated filter:

particle removal down to 1 micron and maximum remaining oil aerosol of 0.1 $\mbox{mg/m}^{3}$



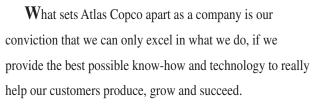
Dimensions

Compressor type		Dimensions A B C										
τ,μο				_								
	mm	inch	mm	inch	mm	inch						
GA90 - 110	2779	109.4	1600	63.0	1990	78.3						
GA132 - 160	2779	109.4	1886	74.3	1990	78.3						
GA200 - 315	3386	133.3	2120	83.4	2400	94.4						
GA315W-500W	4173	164.3	2120	83.4	2500	98.4						
GA132 VSD	3386	133.3	1886	74.2	2010	79.1						
GA180 VSD	3386	133.3	1886	74.2	2010	79.1						
GA315 VSD	4000	157.4	2120	83.4	2400	94.4						
GR110-200	2779	109.4	1886	74.3	1990	78.3						





The face of innov



There is a unique way of achieving that - we simply call it the Atlas Copco way. It builds on **interaction**, on long-term relationships and involvement in the customers' process, needs and objectives. It means having the flexibility to adapt to the diverse demands of the people we cater for.

It's the commitment to our customers' business that drives our effort towards increasing their productivity through better solutions. It starts with fully supporting existing products and continuously doing things better, but it goes much further, creating advances in technology through innovation. Not for the sake of technology, but for the sake of our customer's bottom line and peace-of-mind.

That is how Atlas Copco will strive to remain the first choice, to succeed in attracting new business and to maintain our position as the industry leader.



ISO 9001

A consistent quality earned us the industry's leadership and the customer's trust.



ISO 14001

Atlas Copco's Environmental Management System forms an integral part of each business process.

Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

