

# Atlas Copco

## Oil-injected Rotary Screw Compressors



### GA<sup>e</sup> 11-30/GA<sup>e</sup> 18-30 VSD

11-30 kW/15-40 hp



# The ultimate smart solution that fits

Atlas Copco's GA<sup>e</sup> compressors bring you outstanding performance, flexible operation and the highest productivity, while minimizing the total cost of ownership. With a choice of two premium compressor series – GA<sup>e</sup> 11-30 and GA<sup>e</sup> 18-30 VSD – you will certainly find the compressed air solution that perfectly matches your requirements. Built to perform even in the harshest environments, our products keep your production running smoothly.

## Highest reliability

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The GA<sup>e</sup> series are designed, manufactured and tested in accordance with ISO 9001, ISO 14001 and ISO 1217, Ed. 3, Annex C. Ensuring a long and trouble-free life at the lowest operating cost, the GA<sup>e</sup> contains the latest generation of Atlas Copco's innovative oil-injected screw element.

## Reduced energy costs

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The cost of compressed air can represent over 40% of your total electrical costs. Our GA<sup>e</sup> compressors can reduce energy costs and overall compressor lifecycle costs (LCC) thanks to the use of our highly efficient element. Furthermore, the GA<sup>e</sup> VSD additionally reduces energy costs up to 35% by automatically adjusting the air supply to the customer's air demand.

## Air system integration

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The GA<sup>e</sup> WorkPlace Air System can be placed where you need it. Its low noise operation and integrated air treatment equipment eliminate the need for a separate compressor room. Moreover, all compressors are delivered ready for use, reducing installation costs to a minimum.



## GA<sup>e</sup> 11-30

### Premium performer

Offering premium performance and total reliability, our products answer your advanced needs.

- Guaranteed one of the highest Free Air Delivery in the market.
- One of the lowest power consumptions and noise emissions in the industry.
- Excellent-quality, dry air thanks to the new, integrated dryer range.
- Easy monitoring and maintenance thanks to the optional Elektronikon<sup>®</sup> graphic controller with high-definition color display.



## GA<sup>e</sup> 18-30 VSD

### Ultimate energy saver

Minimized energy consumption for the most demanding applications, making major energy savings a reality.

- Average energy savings of 35%.
- Advanced Variable Speed Drive technology.
- Flexible pressure selection: 4-13 bar.
- Excellent-quality, dry air at the lowest energy cost thanks to the new, integrated dryer range. With optional Dryer Saver Cycle, the GA<sup>e</sup> 18-30 VSD saves 60% of the electricity needed for the dryer.
- Easy monitoring and maintenance thanks to the new Elektronikon<sup>®</sup> graphic controller with high-definition color display.

# GA<sup>e</sup> 11-30: premium performer

The industrial GA<sup>e</sup> 11-30 compressors have one of the best air delivery capacity in the market. These all-in-one solutions provide high-quality air at very low operating costs and offer extended monitoring possibilities. As they produce little noise, they can be placed close to the point of use, minimizing installation costs and maximizing energy efficiency.

## Built to last

- More durable keyboard on the Elektronikon<sup>®</sup> controller.
- Completely protected against dirt, the gearbox's maintenance-free transmission maximizes reliability in any environment. To avoid improper re-lubrication, the motor and drive train are greased for life.
- Reduced cubicle temperature doubles the lifetime of the electrical components and keeps the unit up and running even in the harshest conditions (up to 46°C).

## Protecting your production

- Monitor your machines from a distance, using a simple Ethernet connection, thanks to the new Elektronikon<sup>®</sup> with a built-in server.
- Optional with advanced Elektronikon<sup>®</sup> graphic controller which features a 3.5-inch high-definition color display with clear pictograms.
- Get excellence in quality air on your GA<sup>e</sup>: the integrated dryer can be outfitted with optional DD and PD filters, resulting in oil carry-over as low as 0.01 ppm.
- Improved oil separator resulting in increased reliability of down stream production equipment or air treatment devices.



1 Drive train



2 Cooling fan



3 Elektronikon<sup>®</sup> controller



4 Oil separator & oil filter



5 Electrical cubicle



## Reduced energy costs

- The Free Air Delivery is increased up to 5%, with the GA<sup>®</sup> 30 delivering 80 l/s.
- Minimize the energy required to reach a certain air quality thanks to the new, integrated dryer range with counterflow heat exchanger.
- Optional centralized control over up to 6 compressors via Elektronikon<sup>®</sup>: results in the reduction of system pressure and energy consumption.



## Effortless maintenance

- The complete drive train is greased for life, which eliminates the need for maintenance.
- The use of high-quality consumables that have a long lifetime in severe conditions (up to 4,000 hours) and can be easily serviced.
- The optional high-tech Elektronikon<sup>®</sup> graphic controller's monitoring features include: warning indications, compressor shut-down, maintenance scheduling and a visualization of your machines' conditions.

## Easy installation

- Can be placed close to the point of use – minimizing your installation costs and reducing the risk of air leakage – thanks to a reduced noise level starting from 67 dB(A).
- Avoid damage caused by the incorrect connection of the electrical wires with the electrical cubicle's standard phase sequence relay.
- A wide range of factory-mounted options to customize the GA<sup>®</sup> to your specific needs: air and condensation treatment, special protection, communication features.
- More and easier installation possibilities thanks to the standard design for the 46°C ambient temperatures version.

# GA<sup>e</sup> 18-30 VSD: ultimate energy saver

The GA<sup>e</sup> 18-30 VSD are the ideal solutions for a production with a fluctuating air demand. By monitoring the outlet pressure, the Variable Speed Drive (VSD) technology continuously adjusts the air flow to the demand. Energy savings above 35% become a reality thanks to the high turndown ratio, the eliminated vessel blow-off and the new fan Saver Cycle.

## Built to last

- More durable keyboard on the Elektronikon<sup>®</sup> graphic controller.
- Completely protected against dirt, the gearbox's maintenance-free transmission maximizes reliability in any environment.
- To minimize sensitivity to dust and increase the reliability of the complete machine, the new-generation VSD has an optimized cooling flow.

## Protecting your production

- A wide range of monitoring possibilities and the advantage of remotely monitoring your machines with the advanced Elektronikon<sup>®</sup> graphic controller which features a 3.5-inch high-definition color display with clear pictograms.
- Get excellence in quality air on your GA<sup>e</sup> VSD: the integrated dryer can be outfitted with optional DD and PD filters, resulting in oil carry-over as low as 0.01 ppm.
- Improved oil separator resulting in increased reliability of down stream production equipment or air treatment devices.

## Reduced energy costs

- An average of more than 35% energy savings compared to a load/unload cycle thanks to the combination of VSD technology with the advanced compressor algorithms in the Elektronikon<sup>®</sup> graphic controller.
- The GA<sup>e</sup> 30 VSD increases the Free Air Delivery up to 80 l/s at the best possible power consumption in the market.
- Minimize the energy required to reach a certain air quality thanks to the new, integrated dryer range with counterflow heat exchanger.
- Possibility of centralized control over up to 6 compressors without the need for an external control system.
- Standard with new fan Saver Cycle, optimizing oil temperature and saving up to 7% extra.





## Effortless maintenance

- The high-tech Elektronikon® graphic controller's monitoring features include: warning indications, compressor shut-down, maintenance scheduling and a visualization of your machines' conditions.
- The complete drive train is greased for life, which eliminates the need for maintenance.
- As it is a modular system, the VSD makes diagnostics and repairs fast and easy.
- The use of high-quality consumables that have a long lifetime in severe conditions (up to 4,000 hours) and can be easily serviced.

## Easy installation

- Can be placed close to the point of use – minimizing your installation costs and reducing the risk of air leakage – thanks to a further reduced noise level with extra silencing options on all models below 70 dB(A).
- Easy to install thanks to the reduced footprint and optimized positioning of the grating.
- A wide range of factory-mounted options to customize the GA® VSD to your specific needs: air and condensation treatment, special protection, communication features.
- More and easier installation possibilities thanks to the standard design for the 46°C ambient temperatures version.



Drive train



Cooling fan



Elektronikon® graphic controller



Oil separator & oil filter



VSD cubicle

# A step ahead in monitoring and controls

The next-generation Elektronikon® operating system offers a great variety of control and monitoring features to increase efficiency and reliability. The Elektronikon® controls the main drive motor and regulates system pressure within a predefined and narrow pressure band.



## Elektronikon® controller

- Improved ease of use: intuitive navigation system with clear pictograms and extra 4th LED indicator for service.
- Free online compressor status visualization through a web browser using a standard Ethernet connection.
- Easy to upgrade.
- Maximum reliability: more durable keyboard.

### Key features

- Automatic restart after voltage failure.
- Dual pressure set point.
- Delayed Second Stop function.
- Option to upgrade to the advanced Elektronikon® graphic controller.



## Elektronikon® graphic controller

- User-friendliness: 3.5-inch high-definition color display with clear pictograms and extra 4th LED indicator for service.
- Internet-based compressor visualization using a standard Ethernet connection.
- Increased reliability: new, user-friendly, multilingual user interface and durable keyboard.
- Standard on VSD machines and optional on fixed speed models.

### Key features

- Automatic restart after voltage failure.
- More flexibility: four different week-schedules that can be programmed for a period of 10 consecutive weeks.
- On-screen Delayed Second Stop function and VSD savings indication.
- Graphical indication Serviceplan.
- Factory-fitted remote control and connectivity functions are optionally available.
- Software upgrade available to control up to 4 or 6 compressors by installing the optional integrated multi compressor control to further reduce the total power consumption.
- Dual pressure band clock-based.



## Free online visualization

Monitor your compressors over the Ethernet with the new Elektronikon® controllers. Monitoring features include warning indications, compressor shut-down and maintenance scheduling, all possible with the free online compressor status visualization. SMS service, trending and remote history events are optional through the connectivity program.



**Optional integrated compressor controller**

To reduce system pressure and energy consumption in installations of up to 4 (ES4i) or 6 (ES6i) compressors, the optional integrated compressor controller can be installed with a simple license.

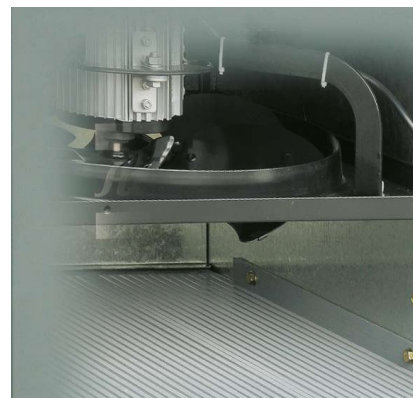
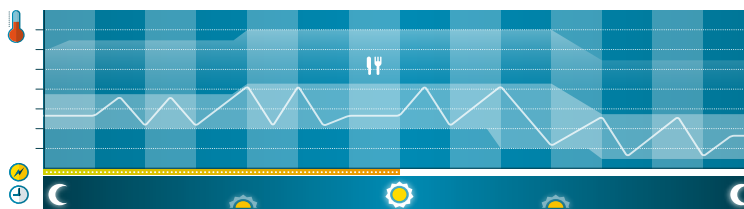
## Dual pressure set point & delayed second stop

The production process creates fluctuating levels of demand which can cause energy losses in low use periods. The Elektronikon® can manually or automatically create two different system pressure bands to optimize energy use and reduce costs at low use times. In addition, the sophisticated Delayed Second Stop (DSS) runs the drive motor only when needed. As the desired system pressure is maintained while the drive motor's run time is minimized, energy consumption is kept at a minimum.



## Fan Saver Cycle

Saver Cycle technology reduces the energy consumption with the fan in light load applications. Using an ambient sensor to monitor the required dew point suppression, the Elektronikon® starts and stops the fan, minimizing energy use.



# Excellence in quality air

Untreated compressed air contains moisture, aerosols and dirt particles that can damage your air system and contaminate your end product. The resulting maintenance costs can far exceed air treatment costs. GA<sup>e</sup> compressors provide the clean, dry air that improves your system's reliability, avoiding costly downtime and production delays, and safeguarding the quality of your products. Clean, treated air also reduces the risk of corrosion and leaks in your compressed air system, leading to substantial cost savings. Furthermore, with leaks and energy waste minimized and the unsafe disposal of untreated condensate eliminated, you can protect the environment and conform to stringent international regulations.

## INTEGRATED PURITY

Atlas Copco's GA<sup>e</sup> compressors come with an integrated dryer that efficiently removes moisture, aerosols and dirt particles to protect your investment. This quality air expands the life of equipment, increasing efficiency and ensuring quality in your final product.



## MAIN BENEFITS OF THE NEW, INTEGRATED DRYER SOLUTIONS

- Heat exchanger with low pressure drop resulting in low energy consumption to reach excellent dew point.
- Zero waste of compressed air thanks to no-loss condensate drain.
- Available in several variants, allowing you to gain high-quality air in all ambient conditions.
- The heat exchanger with additional water separator minimizes the energy required to reach a certain air quality.
- Pressure dew point at 5°C on GA<sup>e</sup> and GA<sup>e</sup> VSD (100% relative humidity at 20°C).
- The dryer's global warming potential has been reduced. This not only results from the refrigerant's environmentally-friendly characteristics, but also from the smaller volume that is needed (valid for both GA<sup>e</sup> and GA<sup>e</sup> VSD).
- Can be outfitted with optional DD and PD filters, allowing you to obtain the exact air quality you need for your specific application (DD and PD for GA<sup>e</sup> 11-30 and GA<sup>e</sup> 18-30 VSD).

## CONFIGURE YOUR GA<sup>e</sup> FOR THE AIR QUALITY YOU NEED

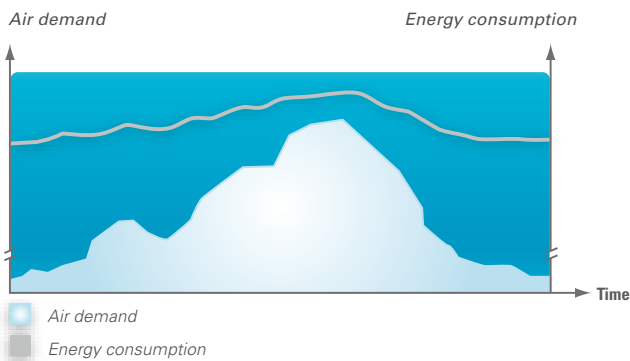
	ISO QUALITY CLASS*	DIRT PARTICLE SIZE	WATER PRESSURE DEW POINT GA <sup>e</sup> **	OIL CONCENTRATION
Pack unit	3.-4	3 microns	-	3 ppm
Full feature unit	3.4.4	3 microns	+5°C, 41°F	3 ppm
Full feature unit with Class 1 integrated filter	1.4.1	0.01 microns	+5°C, 41°F	0.01 ppm

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

# VSD: driving down energy costs

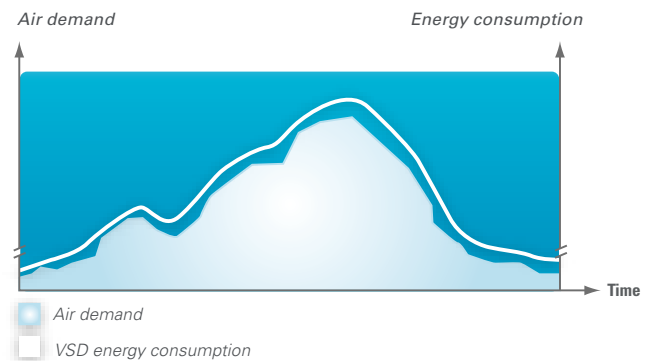
Energy typically represents over 80% of a compressor's life cycle cost. Looking continuously to innovate and reduce customer costs, Atlas Copco pioneered the Variable Speed Drive technology (VSD) in 1994. VSD stands for major energy savings, while protecting the environment for future generations. Due to our ongoing investments in R&D, Atlas Copco offers the widest range of integrated VSD compressors on the market.

## The high price of fluctuating demand

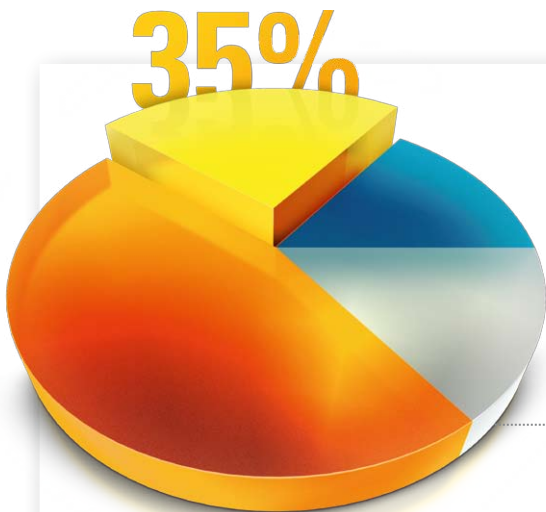


Traditional compressors working with a full load, no load control operate between two set pressure points. When maximum pressure is reached the compressor goes off load. During periods of medium to low air demand, the no load power consumption can be excessive – wasting large amounts of energy.

## VSD: variable volume, controlled costs



Because there is no unnecessary power generated, the GA<sup>e</sup> VSD can reduce energy costs by 35% or more. Life cycle costs (LCC) of the compressor can be reduced by an average of 22%. In general, the extra cost of a VSD compressor compared to a fixed speed one can be earned back after just one to two years.



## Energy savings of up to 35%

Atlas Copco's VSD technology closely follows the air demand by automatically adjusting the motor speed. This results in large energy savings of up to 35%. The life cycle cost of a compressor can be cut by an average of 22%. In addition, lowered system pressure with VSD minimizes energy use across your production dramatically.

## Total compressor life cycle cost

- Energy
- Investment
- Energy savings with VSD
- Maintenance

## Find out how much you can save

Atlas Copco can help you map the load/air demand profile of your current compressor installation and indicate potential energy savings with VSD compressors. **For more information, please contact your local Atlas Copco representative.**

# Peace of mind

With the GA<sup>e</sup> range, Atlas Copco does not just offer the most reliable and efficient compressors. From filter kits to a complete piping installation, Atlas Copco can take responsibility for your entire compressed air system to provide you with best-in-class air. Choose from a wide range of Atlas Copco after sales products and services that will have your GA<sup>e</sup> performing at its best for years to come. Qualified Atlas Copco support is available in over 150 countries.



*Our Aftermarket product portfolio is designed to add maximum value for our customers by ensuring the optimum availability and reliability of their compressed air equipment with the lowest possible operating costs.*

## Genuine parts

Don't put the quality of your investment in danger by buying parts that are not manufactured according to Atlas Copco's standards of excellence. Only Atlas Copco genuine parts can deliver our well-known quality, durability and low energy.

## Service plan

Choose a Total Responsibility, Preventative Maintenance or Inspection Plan to get the scheduled maintenance to keep your compressor operating trouble free. Rest assured that Atlas Copco can offer its 24/7 backup to keep your production running.

## AIRConnect™

Monitor the performance of your GA<sup>e</sup> at any time from your desk, or let your local Atlas Copco center do it for you. With AIRConnect™, you can check your compressed air system online, allowing you to instantly receive warning indications and even take preventive action from a remote location in order to avoid downtime.

## AIRnet™

Expect the highest efficiency from your GA<sup>e</sup>, and the piping built around it. AIRnet™ safely delivers high-quality compressed air from point of generation to point of use. Separate workplaces are effortlessly connected. Fixed to walls or ceilings, AIRnet's range of fittings lets you custom-build a compressed air system specific to your production needs.



# Technical specifications

## GA<sup>e</sup> 11-30 (50 Hz version)

COMPRESSOR TYPE	Max. working pressure				Capacity FAD*			Installed motor power		Noise level**	Weight (kg)		Length (mm)	Width (mm)	Height (mm)	
	WorkPlace		WorkPlace Full Feature								WorkPlace	WorkPlace Full Feature				
	bar(e)	psig	bar(e)	psig	l/s	m <sup>3</sup> /h	cfm	kW	hp	dB(A)						
<b>50 Hz VERSION</b>																
GA <sup>e</sup> 11	7.5	7.5	109	7.3	105	33.5	120.6	71.0	11	15	67	418	472	1255	692	1475
	8.5	8.5	116	8.3	112	31.4	113.0	66.5	11	15	67	418	472	1255	692	1475
	10	10	145	9.8	141	26.0	93.6	55.1	11	15	67	418	472	1255	692	1475
	13	13	189	12.8	185	20.4	73.4	43.2	11	15	67	418	472	1255	692	1475
GA <sup>e</sup> 15	7.5	7.5	109	7.3	105	44.9	161.6	95.1	15	20	67	425	479	1255	692	1475
	8.5	8.5	116	8.3	112	41.2	148.3	87.2	15	20	67	425	479	1255	692	1475
	10	10	145	9.8	141	37.8	136.1	80.0	15	20	67	425	479	1255	692	1475
	13	13	189	12.8	185	31.6	113.8	66.9	15	20	67	425	479	1255	692	1475
GA <sup>e</sup> 18	7.5	7.5	109	7.3	105	54.8	197.3	116.0	18.5	25	68	450	504	1255	692	1475
	8.5	8.5	116	8.3	112	51.7	186.1	109.5	18.5	25	68	450	504	1255	692	1475
	10	10	145	9.8	141	45.3	163.1	95.9	18.5	25	68	450	504	1255	692	1475
	13	13	189	12.8	185	39.1	140.8	82.8	18.5	25	68	450	504	1255	692	1475
GA <sup>e</sup> 22	7.5	7.5	109	7.3	105	63.1	227.2	133.6	22	30	69	467	523	1255	692	1475
	8.5	8.5	116	8.3	112	61.1	220.0	129.4	22	30	69	467	523	1255	692	1475
	10	10	145	9.8	141	54.2	195.1	114.8	22	30	69	467	523	1255	692	1475
	13	13	189	12.8	185	47.3	170.3	100.2	22	30	69	467	523	1255	692	1475
GA <sup>e</sup> 26	7.5	7.5	109	7.3	105	71.0	255.6	150.4	26	35	70	511	569	1255	692	1475
	8.5	8.5	116	8.3	112	66.3	238.7	140.4	26	35	70	511	569	1255	692	1475
	10	10	145	9.8	141	62.0	223.2	131.3	26	35	70	511	569	1255	692	1475
	13	13	189	12.8	185	52.0	187.2	110.1	26	35	70	511	569	1255	692	1475
GA <sup>e</sup> 30	7.5	7.5	109	7.3	105	80.0	288.0	169.4	30	40	71	524	582	1255	692	1475
	8.5	8.5	116	8.3	112	75.7	272.5	160.3	30	40	71	524	582	1255	692	1475
	10	10	145	9.8	141	71.0	255.6	150.4	30	40	71	524	582	1255	692	1475
	13	13	189	12.8	185	61.3	220.7	129.8	30	40	71	524	582	1255	692	1475

\* Unit performance measured according to ISO 1217, Ed. 3, Annex C-1996.

\*\* Mean noise level measured according to ISO 2151/Pneuro/Cagi PN8NTC2 test code; tolerance 2 dB(A).

Reference conditions:

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

Pressure dew point of integrated refrigerant dryer of GA<sup>e</sup> 11, GA<sup>e</sup> 15, GA<sup>e</sup> 18, GA<sup>e</sup> 22, GA<sup>e</sup> 26, GA<sup>e</sup> 30 at reference conditions 2°C to 3°C, 35°F to 37°F.

FAD is measured at the following working pressures:

- 7.5 bar versions at 7 bar
- 8.5 bar versions at 8 bar
- 10 bar versions at 9.5 bar
- 13 bar versions at 12.5 bar

H: 1475 mm, 58"  
L: 1255 mm, 49"  
W: 692 mm, 27"



# Technical specifications

## GA<sup>e</sup> 18-30 VSD (50 Hz version)

COMPRESSOR TYPE	Max. working pressure		Capacity FAD* Min.-Max.						Installed motor power		Noise level**	Weight (kg)		Length (mm)	Width (mm)	Height (mm)
	WorkPlace		l/s		m <sup>3</sup> /h		cfm		kW	hp		dB(A)	WorkPlace			
	bar(e)	psig	Min.	Max.	Min.	Max.	Min.	Max.								
<b>9 bar version</b>																
GA <sup>e</sup> 18 VSD	4	58	15.9	53.0	57.2	190.8	33.7	112.2	18	25	69	463	517	1255	692	1475
	7	102	15.9	53.0	57.2	190.8	33.7	112.2	18	25	69	463	517	1255	692	1475
	9	130	19.1	47.6	68.8	171.4	40.4	100.8	18	25	69	463	517	1255	692	1475
GA <sup>e</sup> 22 VSD	4	58	18.8	62.5	67.7	225.0	39.8	132.4	22	30	70	480	536	1255	692	1475
	7	102	18.8	62.5	67.7	225.0	39.8	132.4	22	30	70	480	536	1255	692	1475
	9	130	22.5	56.2	81.0	202.3	47.6	119.0	22	30	70	480	536	1255	692	1475
GA <sup>e</sup> 30 VSD	4	58	24.0	80.0	86.4	288.0	50.8	169.4	30	35	71	540	598	1255	692	1475
	7	102	24.0	80.0	86.4	288.0	50.8	169.4	30	35	71	540	598	1255	692	1475
	9	130	28.4	71.1	102.2	256.0	60.1	150.6	30	35	71	540	598	1255	692	1475

COMPRESSOR TYPE	Max. working pressure		Capacity FAD* Min.-Max.						Installed motor power		Noise level**	Weight (kg)		Length (mm)	Width (mm)	Height (mm)
	WorkPlace		l/s		m <sup>3</sup> /h		cfm		kW	hp		dB(A)	WorkPlace			
	bar(e)	psig	Min.	Max.	Min.	Max.	Min.	Max.								
<b>13 bar version</b>																
GA <sup>e</sup> 18 VSD	4	58	13.2	44.0	47.5	158.4	28.0	93.2	18	25	69	463	517	1255	692	1475
	7	102	13.2	44.0	47.5	158.4	28.0	93.2	18	25	69	463	517	1255	692	1475
	10	145	13.2	44.0	47.5	158.4	28.0	93.2	18	25	69	463	517	1255	692	1475
	13	188	15.8	39.6	56.9	142.6	33.5	83.9	18	25	69	463	517	1255	692	1475
GA <sup>e</sup> 22 VSD	4	58	16.2	54.0	58.3	194.4	34.3	114.4	22	30	70	480	536	1255	692	1475
	7	102	16.2	54.0	58.3	194.4	34.3	114.4	22	30	70	480	536	1255	692	1475
	10	145	16.2	54.0	58.3	194.4	34.3	114.4	22	30	70	480	536	1255	692	1475
	13	188	19.1	47.7	68.8	171.7	40.4	101.0	22	30	70	480	536	1255	692	1475
GA <sup>e</sup> 30 VSD	4	58	20.4	68.0	73.4	244.8	43.2	144.0	30	35	71	540	598	1255	692	1475
	7	102	20.4	68.0	73.4	244.8	43.2	144.0	30	35	71	540	598	1255	692	1475
	10	145	20.4	68.0	73.4	244.8	43.2	144.0	30	35	71	540	598	1255	692	1475
	13	188	24.3	60.9	87.5	219.2	51.5	129.0	30	35	71	540	598	1255	692	1475

\* 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

\*\* Mean noise level measured according to ISO 2151/Pneuro/Cagi PN8NTC2 test code; tolerance 2 dB(A).

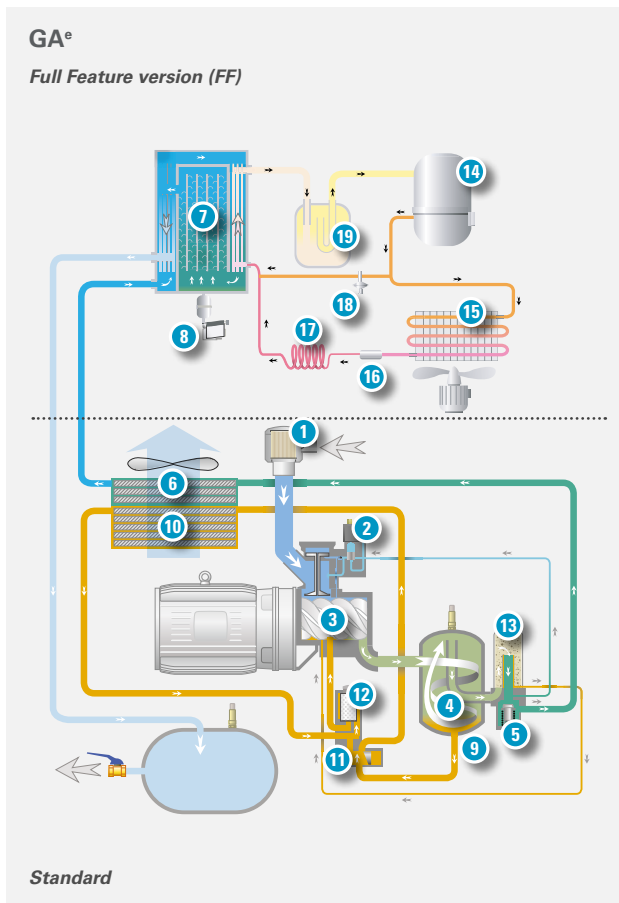
Pressure dew point of integrated refrigerant dryer at reference conditions 2°C to 3°C, 35°F to 37°F.

Maximum working pressure for VSD machines: 13 bar(e) (188 psig).



H: 1475 mm, 58"  
L: 1255 mm, 49"  
W: 692 mm, 27"

# Flow chart



- Intake air
- Air/oil mixture
- Oil
- Wet Compressed air
- Condensate
- Dry air
- Gaseous coolant
- Liquid coolant
- Compressed air without free water
- Dry compressed air
- Water
- Refrigerant gas/liquid mixture
- High pressure, hot refrigerant gas
- Low pressure, cool refrigerant gas
- High pressure refrigerant liquid
- Low pressure refrigerant liquid

## AIR FLOW

1. Air intake filter
2. Air intake valve
3. Compression element
4. Air/oil vessel
5. Minimum pressure valve
6. After-cooler
7. Air-air heat exchanger
8. Water separator with drain

## OIL FLOW

9. Oil
10. Oil cooler
11. Thermostatic bypass valve
12. Oil filter
13. Oil separator

## REFRIGERANT FLOW

14. Refrigerant compressor
15. Condenser
16. Liquid refrigerant dryer/filter
17. Capillary tube
18. Hot gas bypass valve
19. Liquid separator

# Options

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

	GA <sup>e</sup> 11-30	GA <sup>e</sup> 18-30 VSD
Class 1 filter kit (FF only)	X	X
Class 2 filter kit (FF only)	X	X
Graphical 3.5 display Mk5	X	X
Roto-Xtend oil	X	X
Tropical thermostat (including RXD)	X	X
Food-grade oil	X	X
ES4i & ES6i	X	X
Heavy duty inlet filter	X	X



### **Driven by innovation**

With more than 130 years of innovation and experience, Atlas Copco will deliver the products and services to help maximize your company's efficiency and productivity. As an industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous innovation, we strive to safeguard your bottom line and bring you peace of mind.

### **Building on interaction**

As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.

### **A committed business partner**

With a presence in over 160 countries, we will deliver high-quality customer service anywhere, anytime. Our highly skilled technicians are available 24/7 and are supported by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. We are committed to providing the best possible know-how and technology to help your company produce, grow, and succeed. With Atlas Copco you can rest assured that your superior productivity is our first concern!

