Atlas Copco Stationary air compressors

GA 11-30C Pack series - 50/60 Hz

11-30 kW / 15-40 hp oil injected rotary screw compressors

RELIABLE
EFFICIENT
AND USER FRIENDLY

Atlas Copco

Compressed air at lower running costs.

✓ **Absolute reliability**	Designed and manufactured in accordance with ISO 9001 and ISO 14001 certification, the GA 11-30 C range meets the industry's expectations of the highest quality standards. All units are conform with the ISO 1217, ed.3, Annex C – 1996 test code.
✓ **High efficiency**	The compressor is equipped with the unique Atlas Copco's patented screw element, a high efficient drive system and an intelligent control resulting in a superior performance.
✓ **Low maintenance costs**	The compressor has been designed to be service friendly with direct and easy access to all components. Wear and the need for spare parts are reduced to a minimum.
✓ **Low noise level**	The use of a low speed fan and modern techniques of vibro-acoustic optimization has resulted in extremely low noise levels.
✓ **Simple to install, easy to operate**	These units are delivered to you filled with oil, and ready to go. To start operation all you have to do, literally, is to plug the compressor in.
✓ **Elektronikon® control**	This advanced control and monitoring system maximizes overall compressor efficiency and reliability and minimizes maintenance cost. The regulator's human to man interface (HMI) utilizes internationally recognized symbols to communicate status, so language is universal.
✓ **All-in-One packages**	All air and condensate treatment equipment can be integrated in the compressor package reducing the installation cost and floor-space requirement to the full.
✓ **Global sales and service organization**	From concept to installation, from advice to preventive maintenance and service activities, Atlas Copco is your compressed air partner helping to maintain your production process.

Fan
Low speed axial fan providing a high cooling air flow.

Element
Atlas Copco's patented screw element for optimal energy efficiency and outstanding reliability.

Oil-separator
Multi-stage oil separator yields a 2 ppm oil-carry over for minimum contamination and maintenance.

Drive arrangement
Gear drive for optimal energy efficiency and minimal maintenance.

Elektronikon
Automatic electronic control and monitoring of the compressor optimizes the operation

Air inlet filter
Generously dimensioned air intake filter for efficient operation even in dirty conditions.

Motor
High efficiency, totally enclosed fan-cooled (TEFC), IP55, class F electric motor for continuous trouble-free operation.
Permanent alignment to the compressor element.
Bearings greased for life.

Elektronikon® : A superior electronic control, monitoring and communication system

Atlas Copco's patented Elektronikon is an advanced, microprocessor based, real time operating system with an ergonomic user interface.

Reliability

- Protects the compressor pro-actively by means of service and warning indications
- Shuts down the compressor in the event of a fault

Energy efficiency

- Precise pressure control for optimal efficiency
- As standard the control mode DSS is programmed, eliminating unloaded power consumption to the highest extent, resulting in energy savings up to 10 %

User friendliness

- Utilizes internationally recognized symbols to communicate status
- Setting of operating parameters (password protected)
  - Working pressure
  - Warning levels
  - Service levels
- Historical and actual data read-out via the easy-to-read display
  - Working pressure, operating temperatures , number of motor starts, operating hours, service information
  - Status data during the 5 last shutdowns and emergency stops

Service friendliness

- Automatic indication when service is required, minimizing downtime and simplifying maintenance planning

Digital remote control and monitoring

- Possibility to start/stop the compressor from a remote area
- Remote indication of general shutdown

Communication

- Remote communication via computer is possible with an optional upgrade of Elektronikon regulator
  - CAN connection
  - ModBUS/ProfiBUS interface
  - E-box interface to world wide web

Compressor room control and monitoring

Multiple compressor installations can benefit from a centralised control system, which coordinates the operation of the individual compressors and ancillaries. From simple sequencing to complete compressor room monitoring, Atlas Copco can offer it all - using the latest state of the art communication technology.

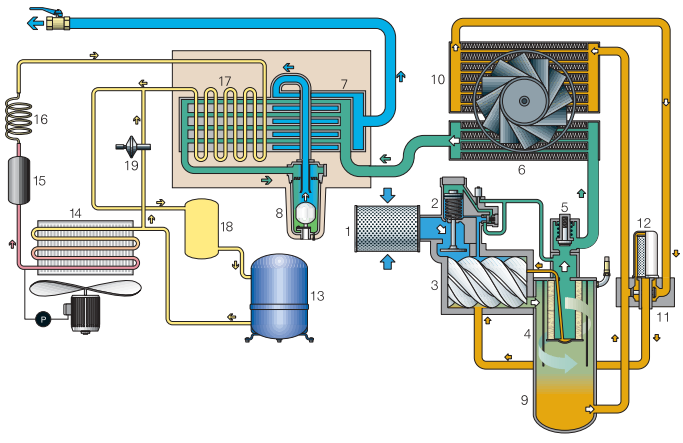
Optional equipment: The best value proposal.

Options
Class 2 filter kit (only Full Feature version)
Class 2 filter kit (only Full Feature version)
Dryer bypass
Oil/water separator
Electronic water drain
Oil containing frame
Modulating control
Synthetic PAO oil
Food grade oil
Lifting device
Rain protection
Freeze protection
Heavy duty inlet filter
Main motor
Anti condensate heater + thermistor protection
Phase sequence relay
Main power isolator switch
Special colours
Marine Air System
High ambient variant (HAV, 50 °C)

Moisture, dirt particles and aerosols in plant air can damage pneumatic equipment and contaminate products. Dry and clean compressed air keeps production operations running smoothly. The GA 11-30C Pack Full Feature units incorporate an integrated dryer using an environmental friendly refrigerant R134a. When adding the optional filter kits (DD) these units will deliver clean and dry compressed air according to ISO 8573-1 class 1.4.1.

Condensate quality must meet legal requirements. The optional OSD oil-water separator raises condensate quality to surpass legal requirements, so there is no need to worry about discharging oil contaminated condensate.

Flow diagram



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

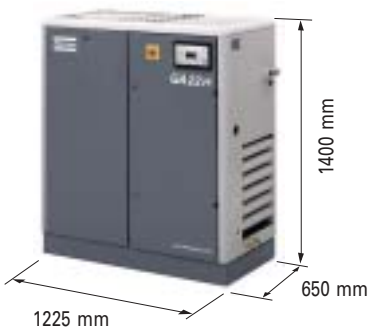
Oil flow
9. Oil reservoir
10. Oil cooler
11. Thermostatic bypass valve
12. Oil filter

Refrigeration flow
13. Refrigerant compressor
14. Condenser
15. Liquid refrigerant dryer/filter
16. Capillary tube
17. Evaporator
18. Accumulator
19. Hot gas bypass valve

Technical specifications

Compressor type	Max. working pressure Pack		PackFull Feature		Capacity FAD(*)			Motor power		Noise level(**)	Weight Pack	Weight Pack Full Feature
	bar(e)	psig	bar(e)	psig	l/s	m³/h	cfm	kW	hp	dB(A)	kg	kg
50 Hz version												
GA 11 - 7.5	7.5	109	7.3	105	32.1	115.6	68.0	11	15	68	410	475
- 8.5	8.5	123	8.3	120	30.2	108.7	64.0					
- 10	10	145	9.8	141	25.4	91.4	53.8					
- 13	13	189	12.8	185	20.0	72.0	42.4					
GA 15 - 7.5	7.5	109	7.3	105	44.6	160.6	94.5	15	20	69	410	475
- 8.5	8.5	123	8.3	120	40.8	146.9	86.5					
- 10	10	145	9.8	141	36.8	132.5	78.0					
- 13	13	189	12.8	185	30.4	109.4	64.4					
GA 18 - 7.5	7.5	109	7.3	105	54.3	195.5	115.1	18.5	25	70	430	495
- 8.5	8.5	123	8.3	120	52.2	188.0	110.6					
- 10	10	145	9.8	141	45.1	162.4	95.6					
- 13	13	189	12.8	185	38.5	138.6	81.6					
GA 22 - 7.5	7.5	109	7.3	105	62.8	226.1	133.1	22	30	71	435	500
- 8.5	8.5	123	8.3	120	60.4	217.4	128.0					
- 10	10	145	9.8	141	53.9	194.0	114.2					
- 13	13	189	12.8	185	47.0	169.2	99.6					
GA 30C - 7.5	7.5	109	7.3	105	75.5	271.8	160.0	30	40	71	495	560
- 8.5	8.5	123	8.3	120	75.2	270.7	159.3					
- 10	10	145	9.8	141	70.3	253.1	149.0					
- 13	13	189	12.8	185	61.5	221.4	130.3					
60 Hz version												
GA 11 - 100	7.4	107	7.2	104	32.4	116.6	68.7	11	15	68	410	475
- 125	9.1	132	8.9	128	28.9	104.0	61.2					
- 150	10.8	157	10.3	149	24.9	89.6	52.8					
- 175	12.5	181	12.3	178	20.5	73.8	43.4					
GA 15 - 100	7.4	107	7.2	104	44.6	160.6	94.5	15	20	69	410	475
- 125	9.1	132	8.9	128	40.8	146.9	86.5					
- 150	10.8	157	10.3	149	36.6	131.8	77.6					
- 175	12.5	181	12.3	178	30.8	110.9	67.4					
GA 18 - 100	7.4	107	7.2	104	53.9	194.0	114.2	18.5	25	70	430	495
- 125	9.1	132	8.9	128	49.8	179.3	105.5					
- 150	10.8	157	10.3	149	44.8	161.3	94.9					
- 175	12.5	181	12.3	178	39.7	142.9	84.1					
GA 22 - 100	7.4	107	7.2	104	63.1	227.2	133.7	22	30	71	435	500
- 125	9.1	132	8.9	128	58.8	211.7	124.6					
- 150	10.8	157	10.3	149	53.2	191.5	112.7					
- 175	12.5	181	12.3	178	48.8	175.7	103.4					
GA 30C - 100	7.4	107	7.2	104	77.6	279.4	164.4	30	40	71	495	560
- 125	9.1	132	8.9	128	72.3	260.3	153.2					
- 150	10.8	157	10.3	149	68.4	246.2	144.9					
- 175	12.5	181	12.3	178	63.9	230.0	135.4					

(*) Unit performance measured according to ISO 1217, Ed. 3, Annex C-1996, at nominal working pressure 7, 9.5 and 12.5 bar..
(**)Mean noise level measured according to Pneurop/Cagi PN8NTC2 test code; tolerance 2 dB(A).



ISO 9001
From design to production and delivery, Atlas Copco compressors adhere to the ISO 9001 quality standard.

ISO 14001
Atlas Copco's Environmental Management System forms an integral part of each business process.

What sets Atlas Copco apart as a company is our conviction that we can only excel in what we do if we provide the best possible know-how and technology to really help our customers produce, grow and succeed.

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.

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

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