

# Atlas Copco

Oil-free Water-injected Screw Compressors

AQ 15-55 VSD /AQ 30-55 (15-55 kW / 20-75 hp)



*Sustainable Productivity*

**Atlas Copco**



## Powerful oil-free air

When it comes to clean, oil-free compressed air, you cannot afford to compromise on quality. Over the past decades, Atlas Copco has pioneered oil-free air screw technology, resulting in a full range of compressors delivering 100% oil-free, clean air. Setting the standard through ISO 8573-1 CLASS 0 certification, the AQ meets your need for pure oil-free air while offering improved energy efficiency.



### REDUCED ENERGY COSTS

With energy amounting to over 70% of a compressor's lifecycle costs (LCC), its importance is clear. The most cost-effective compressed air solution optimizes the pressure, volume and air treatment equipment for each production process. Atlas Copco's AQ compressors provide you with the ultimate all-in-one package to reduce your electricity bill with 40%.



### ZERO OIL CONTAMINATION

Whether your activities are in pharmaceutical production, food processing, critical electronics or in a similarly exacting industry, air quality is paramount for your end product and production process. Atlas Copco's AQ oil-free compressors eliminate the risks of oil contamination as well as the resulting extra costs.



### RENOWNED EXPERTISE

Drawing on vast experience and continuous technological innovations, Atlas Copco has been leading the industry in oil-free compressed air technology for over sixty years. With the protection of your application in mind, Atlas Copco has designed its AQ range to offer the superb 100% oil-free quality air you are in need of.

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(090) 696-6535 or (090) 220-5599



## VARIABLE SPEED DRIVE

- By automatically tuning compressor capacity to the precise air demand, only a minimum amount of energy is required, resulting in on average 35% energy savings.
- The inefficient transition period from full to no load power is eliminated and excessive off load power consumption is avoided.

## HIGH EFFICIENCY

- Filtering the water in the lubrication circuit, the water filter ensures a constant supply of clean lubricant.
- Compared to external cooling systems, the installation costs of air-cooled units are extremely low thanks to the air-air and air-water heat exchangers.

## ENDURING PERFORMANCE

- Strength and durability are ensured thanks to the aluminium bronze element housing. The risk of corrosion within the element is eliminated.
- The hydrodynamic bearings ensure long life as no physical contact is made within the bearing itself.

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(090) 696-6535 or (090) 820-5599



# Engineered to meet your needs

At Atlas Copco we aim to provide you with compressors that fulfill and even exceed your expectations and demands. Built as the result of decades of experience in oil-less design and manufacturing, the AQ oil-free range of water-injected screw compressors gives you all of this experience and knowledge in a class leading package.

1



## Air filter

- SAE fine 99.5%
- SAE coarse 99.9%

2



## Water filter

Filtering the water in the lubrication circuit, the water filter ensures a constant supply of clean lubricant. The filtration capability equals 10 micron throughout the filter's lifetime.

3

## Separator vessel

Stainless steel water separator vessel for separation via centrifugal and gravity forces. Two sensors (a low sensor and a high sensor) are included to maintain correct water levels.

4



## Induction motor

IP55 induction motor, flange-mounted for perfect alignment. Combined with direct driven arrangement for superior energy efficiency.

5

## Air-cooled fan and water-cooler

The AQ is available as air-cooled or water-cooled unit. Compared to external cooling systems, both the footprint and installation costs of air-cooled units are extremely low thanks to the air-air and air-water stainless steel heat exchangers. Incorporating a new, over-sized water-water exchanger, water-cooled units provide a virtually continuous air temperature at the dryer inlet of less than 55°C (131°F) without after cooler.



**AQ 55 VSD**  
air-cooled



11

### Element bearings

No oil is used within the compressor element. Even the element bearings are water-lubricated, providing 100% oil-free air. The bearings are grease-free, eliminating any risk of contamination. As the bearings slide on the water, their lifetime is extended and a smooth rotation of the element is ensured.

10

### Reverse osmosis system

Using distilled water or reverse osmosis water for the water injection, the built-in reverse osmosis system ensures a constant supply of high quality water, avoiding corrosion and bacteria growth.

9



### Water pump

Adding to the durability of the bearing, the water pump increases the bearing pressure level at start up and during off load. This minimizes energy consumption, eliminates stress on the bearings and balances pressure between the bearings and the rotor housing.



AQ 55 VSD  
water-cooled

8

### Integrated refrigerant dryer

The Full Feature versions include an integrated refrigerant dryer as standard.

7

### Sound insulated canopy

No separate compressor room is required as the sound insulated canopy allows for installation in most working environments.

6

### Elektronikon®

Advanced Elektronikon® control and monitoring system, designed for integration in a (remote) process control system.



# Proven technology

At the heart of the new AQ range is a unique water-injected screw element producing highly efficient near isothermal compression. The polymer ceramic rotors with their optimized rotor profile are supported by water-lubricated bearings, ensuring that no oil contaminates the compression element, thereby producing pure oil-free air.



## ROTORS

- A highly efficient compression process is achieved thanks to high quality polymer mould ceramic rotors with optimum profiling. The combination of corrosion-free, high efficiency raw material and water lubrication results in a longer lifespan.

## ELEMENT HOUSING

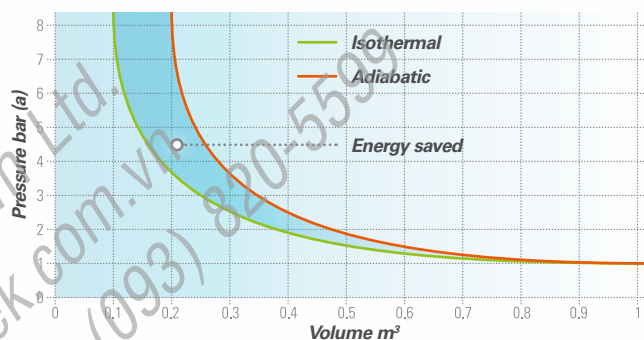
- Strength and durability are ensured as a result of the aluminium bronze element housing without risk of corrosion within the element.

## ELEMENT BEARINGS

- The use of hydrodynamic bearings ensure long life as no physical contact is made within the bearing itself, it simply glides on a film of water removing the need for any oil or grease lubrication.

## WATER-INJECTED SCREW COMPRESSION EFFICIENCY

- The superior cooling capability of water ensures that the heat is removed efficiently at the source. Removing the wasted energy that heat represents gives more air per kW of power. The low temperature of the compressed air reduces the stress on components ensuring long life.



49.6°C, 121.3°F

23.4°C 74.1°F

## SUPERIOR WATER-INJECTED SCREW ELEMENT

- Increased free air delivery.
- Low specific energy consumption.
- Near isothermal compression process.
- Pressure ratings of 7, 10 and 13 bar ensuring suitability for a wide variety of applications.

The highly effective cooling capabilities of water combined with precision engineering ensure the supreme energy efficiency of the AQ compressors.

# Exceptional versatility

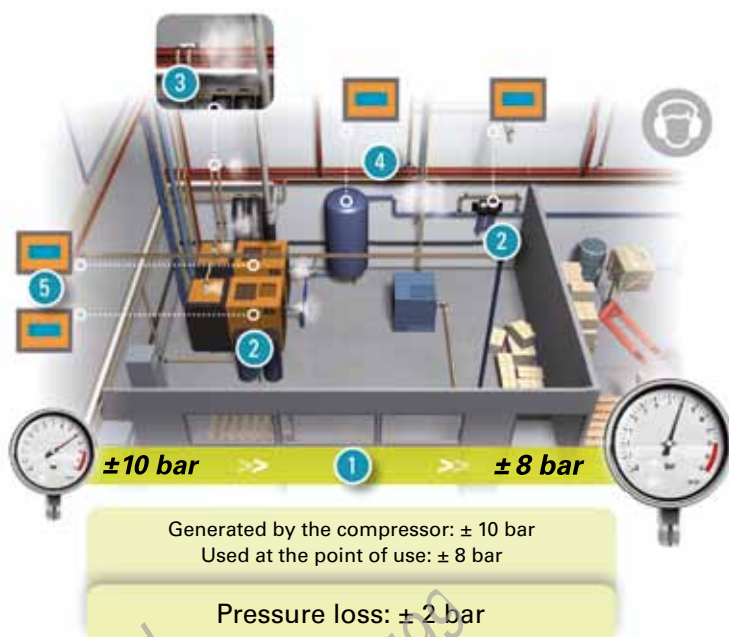
Contrary to traditional compressor set-ups, Atlas Copco's AQ WorkPlace Air System compressors effortlessly fit onto your work floor. With their compact footprint and integration of air treatment equipment, AQ compressors ensure optimum efficiency and reliability. Designed to give the most versatile source of compressed air, they provide you with an all-in-one package that will have your production running smoothly for years to come.

## TRADITIONAL COMPRESSOR SET-UP

- 1 High pressure drop across the system
- 2 External filtration equipment/dryer
- 3 Elaborate and costly piping system
- 4 Multiple connections and air leaks
- 5 Multiple monitoring points

### High noise operation

- Separate compressor room
- Raised installation & energy costs as a result of high pressure drop



## WORKPLACE AIR SYSTEM™

- 1 Limited internal system pressure drop
- 2 Integrated air and condensate treatment equipment
- 3 Reduced piping costs
- 4 Single point connections
- 5 Single point monitoring

### Low noise operation

- No need for dedicated compressor room
- Minimized installation costs



# ISO 8573-1 CLASS 0

## Atlas Copco sets a new industry standard

When it comes to clean, oil-free compressed air for your critical processes, you can't afford to compromise. Atlas Copco, a pioneer in oil-free air screw technology, is known for its range of water-injected compressors designed especially for applications that require oil-free air. Now Atlas Copco has achieved a new milestone: setting the standard for air purity as the first manufacturer to be certified ISO 8573-1 CLASS 0.

*The first air compressors TÜV-certified as "oil-free" (ISO 8573-1 CLASS 0)*



### WHY A NEW CLASS?

Industries such as pharmaceuticals, food and beverages, electronics and textiles must exclude any risk of contamination. Otherwise severe consequences could follow: spoiled or unsafe products, production downtime and damage to both brand and reputation. To address the needs of critical applications where air purity is essential, the ISO 8573-1 compressed air standard was revised in 2001. Along with a more comprehensive measuring methodology, a new and more stringent class was added to the five existing purity classes: ISO 8573-1 CLASS 0.

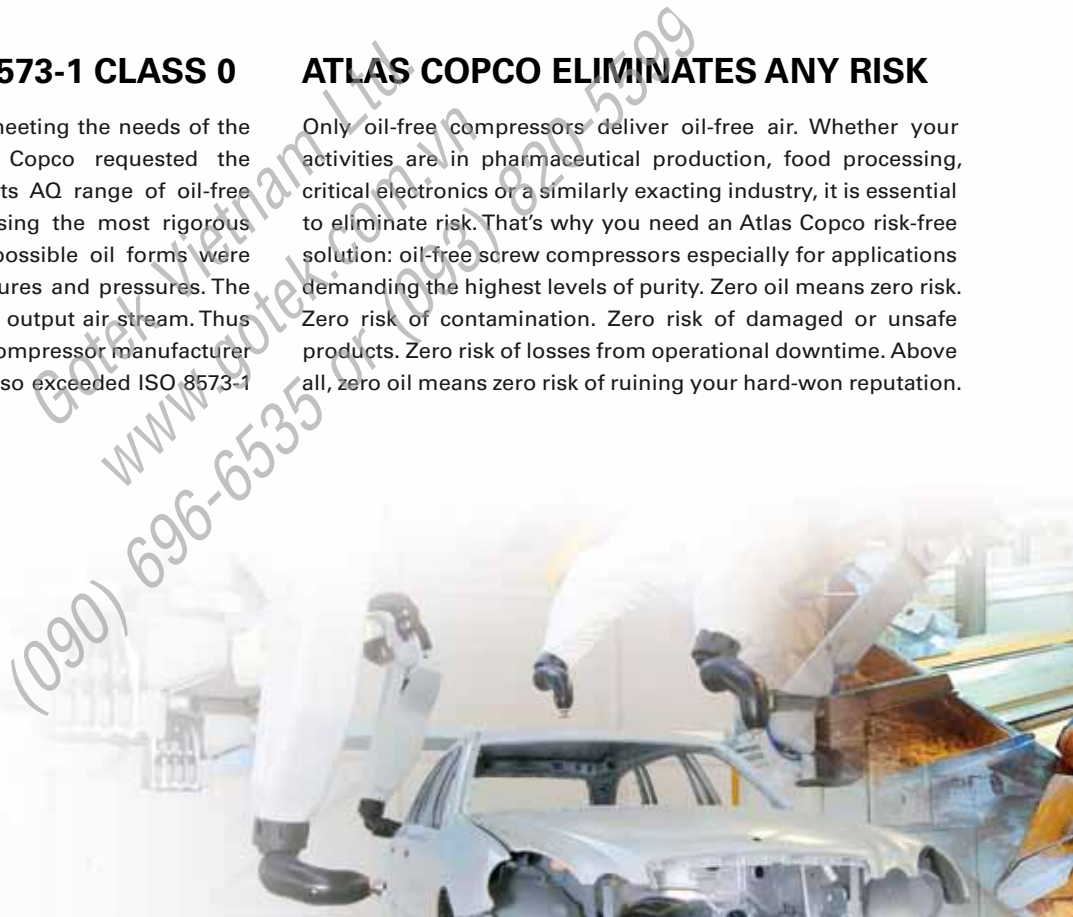
CLASS	Concentration total oil (aerosol, liquid, vapor) mg/m <sup>3</sup>
<b>0</b>	<b>As specified by the equipment user or supplier and more stringent than class 1</b>
1	< 0.01
2	< 0.1
3	< 1
4	< 5

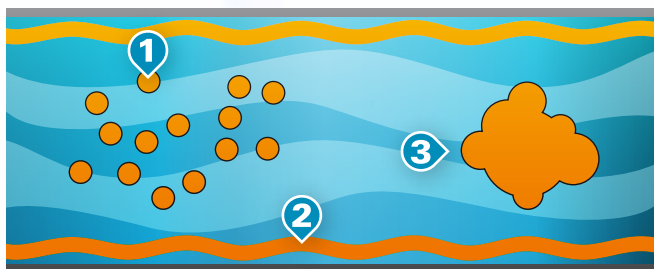
### FIRST TO ACHIEVE ISO 8573-1 CLASS 0

As the industry leader committed to meeting the needs of the most demanding customers, Atlas Copco requested the renowned TÜV institute to type-test its AQ range of oil-free water-injected screw compressors. Using the most rigorous testing methodologies available, all possible oil forms were measured across a range of temperatures and pressures. The TÜV found no traces of oil at all in the output air stream. Thus Atlas Copco not only became the first compressor manufacturer to receive CLASS 0 certification, but also exceeded ISO 8573-1 CLASS 0 specifications.

### ATLAS COPCO ELIMINATES ANY RISK

Only oil-free compressors deliver oil-free air. Whether your activities are in pharmaceutical production, food processing, critical electronics or a similarly exacting industry, it is essential to eliminate risk. That's why you need an Atlas Copco risk-free solution: oil-free screw compressors especially for applications demanding the highest levels of purity. Zero oil means zero risk. Zero risk of contamination. Zero risk of damaged or unsafe products. Zero risk of losses from operational downtime. Above all, zero oil means zero risk of ruining your hard-won reputation.





- 1 Aerosols**  
Minute droplets of oil suspended in the air stream
- 2 Wall flow**  
Oil in liquid form, which creeps along the pipe wall
- 3 Vapors or oil mist**  
Vaporized oil in a cloud form

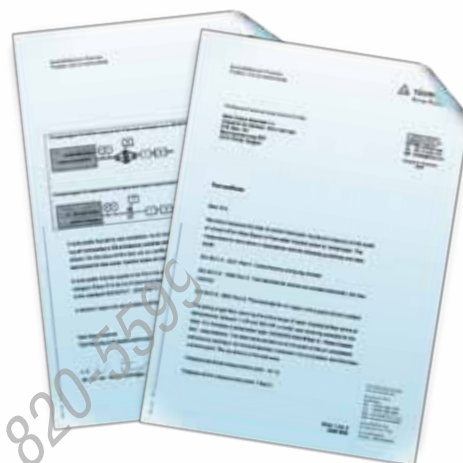
## THE MOST STRINGENT AIR PURITY TESTING AVAILABLE

- Most manufacturers prefer “partial flow” testing, which targets only the center of the air flow. The Atlas Copco AQ range of oil-free water-injected screw compressors was tested using the more stringent “full flow” method. This examines the entire air flow to measure aerosols, vapors and wall flow. Even with such rigorous testing, no traces of oil were found in the output air stream.

## CAN OIL-INJECTED COMPRESSORS WITH OIL REMOVAL FILTERS DELIVER OIL-FREE AIR?

- Often referred to as “technically oil-free air”, this system relies on air cooling devices and several stages of oil removal with multiple components. A failure of any of these components or inadequate maintenance can result in oil contamination of a process. Therefore, with oil-injected compressors there will always be a risk of contamination and the possibility of severe consequences for your business.

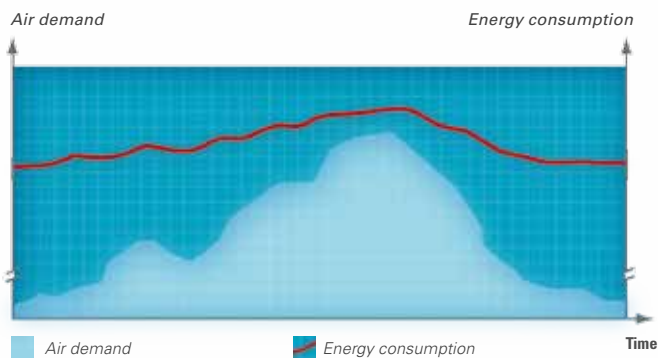
*TÜV (Technische Überwachungsverein/Technical Monitoring Association) reporting on the Atlas Copco AQ range of oil-free water-injected screw compressors.*



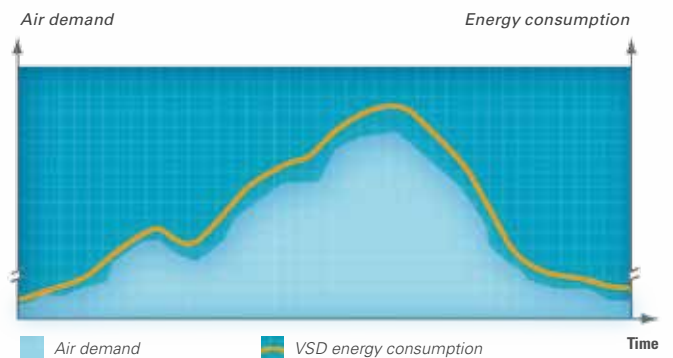
Move up to a risk-free standard.  
Visit [www.classzero.com](http://www.classzero.com)

# Limiting energy costs

As energy can represent over 70% of a compressor's lifecycle costs (LCC), optimizing energy consumption is essential. In fact, considering that the generation of compressed air can account for more than 40% of a plant's total electricity bill, it is even crucial. With Atlas Copco's VSD (Variable Speed Drive) technology, we provide you with a partner on the road to unrivalled cost savings. By mirroring compressed air demand, the AQ make major energy savings a reality.

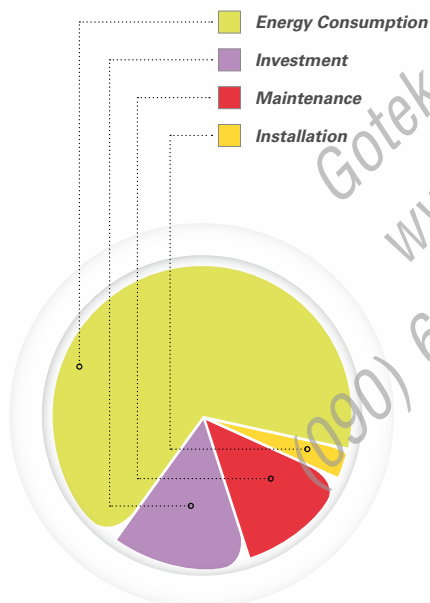


Traditional compressors working with a 'full load, no load' control operate between two set pressure points. When maximum pressure is reached, the compressor goes off load. During periods of medium to low air demand, the no load power consumption can be excessive – wasting large amounts of energy.

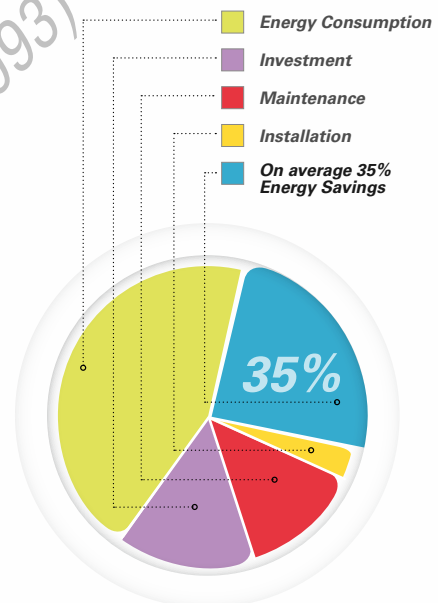


Because there is no unnecessary power generated, the AQ VSD can reduce energy costs by on average 35%. Lifecycle (LCC) costs of the compressor can be cut by an average of 22%. In general, the extra cost of a VSD compressor compared to a fixed speed one can be earned back after just one to two years.

**LCC of a standard compressor**



**LCC of a VSD compressor**



*The long-term cost of owning and operating a compressor is a combination of capital, installation, servicing and energy costs. Opt for an AQ VSD compressor solution to obtain the highest return on investment.*

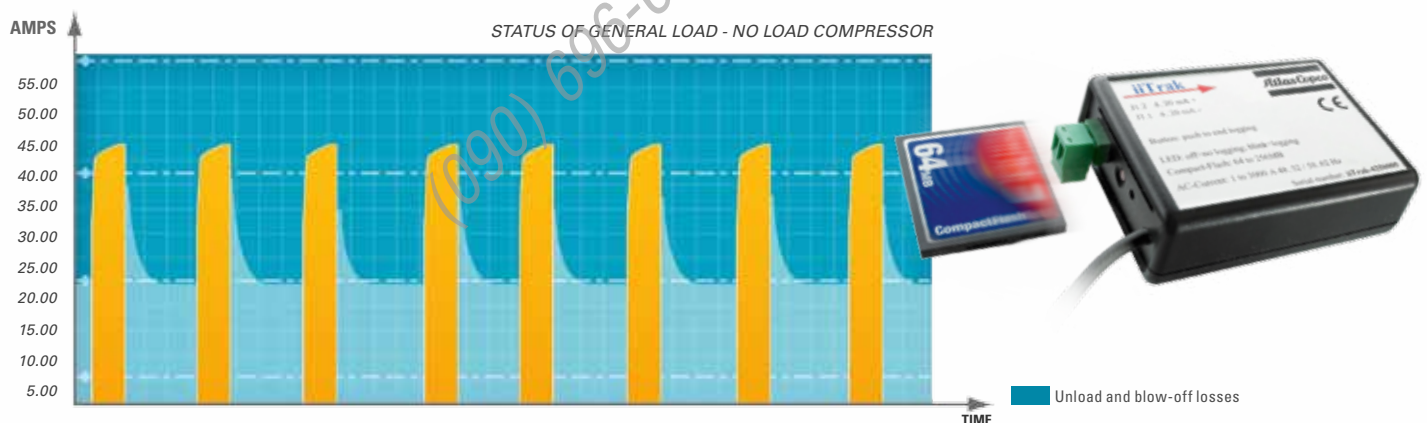
# VSD: maximizing efficiency, saving energy

In your competitive production environment, being able to reduce costs is one of your main concerns. With VSD technology you obtain energy savings that will greatly downsize your electricity bill. By automatically tuning compressor capacity to the precise air demand, only a minimum amount of energy is required. The resulting energy savings benefit you as well as the environment, safeguarding a healthy future for the generations to come.



## THE AQ VSD REDUCES ENERGY COSTS BY:

- Eliminating the inefficient transition period from full to no load power.
- Avoiding excessive off load power consumption.
- Maintaining the net pressure band.
- Reducing overall average working pressure.
- Minimizing system leakage due to a lower system pressure.
- Increasing flexibility with soft starting gradual motor ramp-up to avoid electricity surges.
- Offering flexible pressure selection from 4 to 13 bar with electronic gearing to ensure lowered electricity costs.



The AQ VSD efficiently handles the varying air demand found in most plant systems.

# Superior control and monitoring

You rely on your compressed air solution to perform efficiently day in, day out. To guarantee maximum uptime, continuous surveillance is a must. By properly monitoring your compressed air system you cannot only decrease downtime but also save energy, reduce maintenance and increase production throughput. With Atlas Copco's range of state-of-the-art control systems, those benefits are at your fingertips.

## ADVANCED POSSIBILITIES

- The Elektronikon® operating system provides control and monitoring to increase your compressor's efficiency and reliability. Easily expandable with extra sensors, digital inputs

and internet communication functions, the Elektronikon® can be adapted to your specific needs and offer simple, central control of up to four compressors.



## SUPREME ENERGY SAVINGS

- Precise pressure control for optimal efficiency.
- Shutdown scheduling to avoid costs during non-working hours.
- Prioritized use of the most economic machines over older, less effective versions.
- Continuous usage of VSD machines.
- Use of multiple VSD compressors in their most efficient performance zones.

## THE ULTIMATE IN REMOTE MONITORING

- With AIRConnect™, Atlas Copco offers you a sophisticated modular package for advanced remote monitoring, complete analysis and accurate management. Fully customizable to meet your specific needs, this solution – made up of four different levels of functionality – stands for exceptional convenience and absolute peace of mind within your production environment.



*For additional information on Atlas Copco's monitoring packages, please consult the specific solution literature.*

# Peace of mind

With the AQ, 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 of 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 AQ performing at its best for years to come. Qualified Atlas Copco support is available in over 170 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 compromise your investment in quality 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.

## AIRCONNECT

- Monitor the performance of your AQ at any time from your desk, or let your local Atlas Copco center do it for you. With AIRConnect™, you check your compressed air system online, immediately receiving warning indications and even remotely taking preventive action to avoid downtime.

## SERVICEPLAN

- 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.

## AIRNET

- Expect the highest efficiency from your AQ, 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.



# Optimize your system

The AQ can be tailored to your needs. From an integrated dryer to remote connectivity functions, various options are available to further optimize the AQ's performance, or to simply tailor it to your specific production environment.

		AQ 30-55	AQ 15-30 VSD	AQ 37-55 VSD
Air treatment	Dryer bypass*	x	x	x
	Motor space heater	x	x	x
	Thermistors	x	N/A	N/A
	Water shut off valve**	x	x	x
Protection	Phase sequence relay	Standard	Standard	Standard
Public works	Main power isolator switch	x	x	x
	AIRConnect™ Notification - 1 machine only	x	x	x
	AIRConnect™ Notification - up to 3 machines	x	x	x
	1 additional machine connection	x	x	x
	4 additional machine connections	x	x	x
	AIRConnect™ Visualization - up to 4 machines	x	x	x
	AIRConnect™ Notification & Visualization - up to 4 machines	x	x	x
	1 additional machine connection	x	x	x
	4 additional machine connections	x	x	x
	Performance trending & data logging	x	x	x
	E-mail event notification	x	x	x
	Desktop event notification	x	x	x
	Remote access via dial-in	x	x	x
	Special canopy color	x	x	x
	Secondary cooling air system	x	x	x
	Booster pump for RO system	x	x	x
	Flanged inlet	x	x	x
	Alarm horn	x	x	x
	Graphical display for Elektronikon***	x	x	x
General options	IT ancillaries	N/A	x	x

\* FF units only.

\*\* Water-cooled units only.

\*\*\* Required for Chinese, Korean and Japanese characters.



## AQ 15-30 VSD

H: 1500 mm, 59.1"

W: 974 mm, 38.5"

L: 1976 mm, 77.4"

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(093) 696-6535 or (093) 820-5599

## Technical specifications 50 Hz versions

COMPRESSOR TYPE	Max. working pressure (bar(e)/psig) <sup>(1)</sup>			Capacity FAD <sup>(2)</sup>			Installed motor power		Noise level <sup>(3)</sup>	Weight (kg/lbs)	
	Pack	Full Feature		l/s	m³/min	cfm	kW	hp	dB(A)	Pack	Full Feature
<b>AIR-COOLED</b>											
AQ 30	7.5	7.5 / 109	7.25 / 105	84.9	5.1	180.1	30	40	68	1226 / 2703	1320 / 2910
	10	10 / 145	9.75 / 141	68.3	4.1	144.8	30	40	68	1226 / 2703	1320 / 2910
	13	13 / 189	12.75 / 185	53	3.2	113	30	40	68	1226 / 2703	1320 / 2910
AQ 37	7.5	7.5 / 109	7.25 / 105	102	6.1	215.4	37	50	69	1298 / 2862	1395 / 3075
	10	10 / 145	9.75 / 141	86.4	5.2	183.6	37	50	69	1298 / 2862	1395 / 3075
	13	13 / 189	12.75 / 185	69.2	4.2	148.3	37	50	69	1298 / 2862	1395 / 3075
AQ 45	7.5	7.5 / 109	7.25 / 105	121.4	7.3	257.8	45	60	71	1321 / 2912	1416 / 3122
	10	10 / 145	9.75 / 141	98.1	5.9	208.4	45	60	71	1321 / 2912	1416 / 3122
	13	13 / 189	12.75 / 185	82.2	4.9	173	45	60	71	1321 / 2912	1416 / 3122
AQ 55	7.5	7.5 / 109	7.25 / 105	139.1	8.4	296.6	55	75	72	1378 / 3038	1497 / 3300
	10	10 / 145	9.75 / 141	118.1	7.1	250.7	55	75	72	1378 / 3038	1497 / 3300
	13	13 / 189	12.75 / 185	98.4	5.9	208.4	55	75	72	1378 / 3038	1497 / 3300
<b>WATER-COOLED</b>											
AQ 30	7.5	7.5 / 109	7.25 / 105	88.5	5.3	187.5	30	40	65	1121 / 2471	1215 / 2679
	10	10 / 145	9.75 / 141	71.2	4.3	151.8	30	40	65	1121 / 2471	1215 / 2679
	13	13 / 189	12.75 / 185	55	3.3	116.5	30	40	65	1121 / 2471	1215 / 2679
AQ 37	7.5	7.5 / 109	7.25 / 105	107.1	6.4	226.9	37	50	66	1193 / 2630	1290 / 2844
	10	10 / 145	9.75 / 141	91.2	5.5	194.2	37	50	66	1193 / 2630	1290 / 2844
	13	13 / 189	12.75 / 185	72.9	4.4	155.4	37	50	66	1193 / 2630	1290 / 2844
AQ 45	7.5	7.5 / 109	7.25 / 105	128.5	7.7	272.3	45	60	67	1216 / 2681	1313 / 2895
	10	10 / 145	9.75 / 141	108	6.5	230	45	60	67	1216 / 2681	1313 / 2895
	13	13 / 189	12.75 / 185	89.9	5.4	190.7	45	60	67	1216 / 2681	1313 / 2895
AQ 55	7.5	7.5 / 109	7.25 / 105	152.7	9.2	323.6	55	75	68	1273 / 2806	1392 / 3069
	10	10 / 145	9.75 / 141	131.2	7.9	279	55	75	68	1273 / 2806	1392 / 3069
	13	13 / 189	12.75 / 185	109	6.5	230	55	75	68	1273 / 2806	1392 / 3069

(1) Full feature units: maximum working pressure 12.5 bar(e)/181 psig.

(2) Unit performance measured according to ISO1217 Annex C, latest edition.

(3) Mean sound level according to ISO2151, tolerance 3 dB(A).

### Reference conditions:

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

### FAD is measured at the following working pressure:

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

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### AQ 37-55 VSD

H: 1840 mm, 72"  
W: 965 mm, 40"  
L: 2435 mm, 96"



## Technical specifications 60 Hz versions

COMPRESSOR TYPE	Max. working pressure (bar(e)/psig) <sup>(1)</sup>			Capacity FAD <sup>(2)</sup>			Installed motor power		Noise level <sup>(3)</sup>	Weight (kg/lbs)	
	Pack	Full Feature		l/s	m³/min	cfm	kW	hp	dB(A)	Pack	Full Feature
<b>AIR-COOLED</b>											
AQ 30	7.4	7.4 / 107	7.15 / 104	87.8	5.3	187.2	30	40	68	1226 / 2703	1320 / 2910
	9.1	9.1 / 132	8.85 / 128	78.7	4.7	166.1	30	40	68	1226 / 2703	1320 / 2910
	10.8	10.8 / 157	10.55 / 153	67.5	4.1	144.8	30	40	68	1226 / 2703	1320 / 2910
	12.5	12.5 / 181	12.25 / 178	59.2	3.6	127.1	30	40	68	1226 / 2703	1320 / 2910
AQ 37	7.4	7.4 / 107	7.15 / 104	105.5	6.3	222.5	37	50	69	1298 / 2862	1395 / 3075
	9.1	9.1 / 132	8.85 / 128	87.7	5.3	187.2	37	50	69	1298 / 2862	1395 / 3075
	10.8	10.8 / 157	10.55 / 153	83	5	176.6	37	50	69	1298 / 2862	1395 / 3075
	12.5	12.5 / 181	12.25 / 178	76.1	4.6	162.4	37	50	69	1298 / 2862	1395 / 3075
AQ 45	7.4	7.4 / 107	7.15 / 104	122.4	7.3	257.8	45	60	71	1321 / 2912	1416 / 3122
	9.1	9.1 / 132	8.85 / 128	103	6.2	219.1	45	60	71	1321 / 2912	1416 / 3122
	10.8	10.8 / 157	10.55 / 153	96	5.8	204.8	45	60	71	1321 / 2912	1416 / 3122
	12.5	12.5 / 181	12.25 / 178	88.7	5.3	187.2	45	60	71	1321 / 2912	1416 / 3122
AQ 55	7.4	7.4 / 107	7.15 / 104	146.8	8.8	310.8	55	75	72	1378 / 3038	1497 / 3300
	9.1	9.1 / 132	8.85 / 128	118.2	7.1	250.7	55	75	72	1378 / 3038	1497 / 3300
	10.8	10.8 / 157	10.55 / 153	119.6	7.2	254.3	55	75	72	1378 / 3038	1497 / 3300
	12.5	12.5	12.25	106	6.4	226	55	75	72	1378 / 3038	1497 / 3300
<b>WATER-COOLED</b>											
AQ 30	7.4	7.4 / 107	7.15 / 104	91.8	5.5	194.2	30	40	65	1121 / 2471	1215 / 2679
	9.1	9.1 / 132	8.85 / 128	82.7	5	176.6	30	40	65	1121 / 2471	1215 / 2679
	10.8	10.8 / 157	10.55 / 153	70.4	4.2	148.3	30	40	65	1121 / 2471	1215 / 2679
	12.5	12.5 / 181	12.25 / 178	61.7	3.7	130.7	30	40	65	1121 / 2471	1215 / 2679
AQ 37	7.4	7.4 / 107	7.15 / 104	111.3	6.7	236.6	37	50	66	1193 / 2630	1290 / 2844
	9.1	9.1 / 132	8.85 / 128	93	5.6	197.8	37	50	66	1193 / 2630	1290 / 2844
	10.8	10.8 / 157	10.55 / 153	87.5	5.3	187.2	37	50	66	1193 / 2630	1290 / 2844
	12.5	12.5 / 181	12.25 / 178	80.7	4.8	169.5	37	50	66	1193 / 2630	1290 / 2844
AQ 45	7.4	7.4 / 107	7.15 / 104	134	8	282.5	45	60	67	1216 / 2681	1313 / 2895
	9.1	9.1 / 132	8.85 / 128	115.2	6.9	243.7	45	60	67	1216 / 2681	1313 / 2895
	10.8	10.8 / 157	10.55 / 153	104.2	6.3	222.5	45	60	67	1216 / 2681	1313 / 2895
	12.5	12.5 / 181	12.25 / 178	97.8	5.9	208.4	45	60	67	1216 / 2681	1313 / 2895
AQ 55	7.4	7.4 / 107	7.15 / 104	161.7	9.7	342.6	55	75	68	1273 / 2806	1392 / 3069
	9.1	9.1 / 132	8.85 / 128	132.7	8	282.5	55	75	68	1273 / 2806	1392 / 3069
	10.8	10.8 / 157	10.55 / 153	131.5	7.9	279.1	55	75	68	1273 / 2806	1392 / 3069
	12.5	12.5	12.25	118.7	7.1	250.7	55	75	68	1273 / 2806	1392 / 3069

(1) Full feature units: maximum working pressure 12.5 bar(e)/181 psig.

(2) Unit performance measured according to ISO1217 Annex C, latest edition.

(3) Mean sound level according to ISO2151, tolerance 3 dB(A).

### Reference conditions:

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

### FAD is measured at the following working pressure:

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

## Technical specifications AQ 15-55 VSD

COMPRESSOR TYPE	Max. working pressure <sup>(1)</sup>		Capacity FAD <sup>(2)</sup>			Installed motor power		Noise level <sup>(3)</sup>	Weight (kg/lbs)	
	bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	Pack	Full Feature
<b>AIR-COOLED</b>										
AQ 15 VSD	13	188	22 – 47	1.3 – 2.8	47 – 100	15	20	67	650 / 1433	700 / 1543
AQ 18 VSD	13	188	22 – 54	1.3 – 3.2	47 – 114	18	25	69	650 / 1433	700 / 1543
AQ 22 VSD	13	188	22 – 66	1.3 – 4.0	47 – 140	22	30	70	740 / 1631	800 / 1764
AQ 30 VSD	13	188	22 – 83	1.3 – 5.0	47 – 176	30	40	72	740 / 1631	810 / 1786
AQ 37 VSD 13(1)	13	175	42 – 104	2.5 – 6.2	89 – 220	37	50	69	1195 / 2635	1306 / 2879
AQ 55 VSD 13(1)	13	175	42 – 155	2.5 – 9.3	90 – 328	55	75	72	1195 / 2635	1314 / 2897
<b>WATER-COOLED</b>										
AQ 15 VSD	13	188	22 – 47	1.3 – 2.8	47 – 100	15	20	67	542 / 1195	592 / 1305
AQ 18 VSD	13	188	22 – 54	1.3 – 3.2	47 – 114	18	25	69	542 / 1195	592 / 1305
AQ 22 VSD	13	188	22 – 66	1.3 – 4.0	47 – 140	22	30	70	632 / 1393	692 / 1526
AQ 30 VSD	13	188	22 – 83	1.3 – 5.0	47 – 176	30	40	72	632 / 1393	702 / 1548
AQ 37 VSD 13(1)	13	175	42 – 104	2.5 – 6.2	89 – 220	37	50	66	1090 / 2403	1201 / 2648
AQ 55 VSD 13(1)	13	175	42 – 155	2.5 – 9.3	90 – 328	55	75	69	1090 / 2403	1209 / 2665

(1) Full feature units: maximum working pressure 12.5 bar(e)/181 psig.

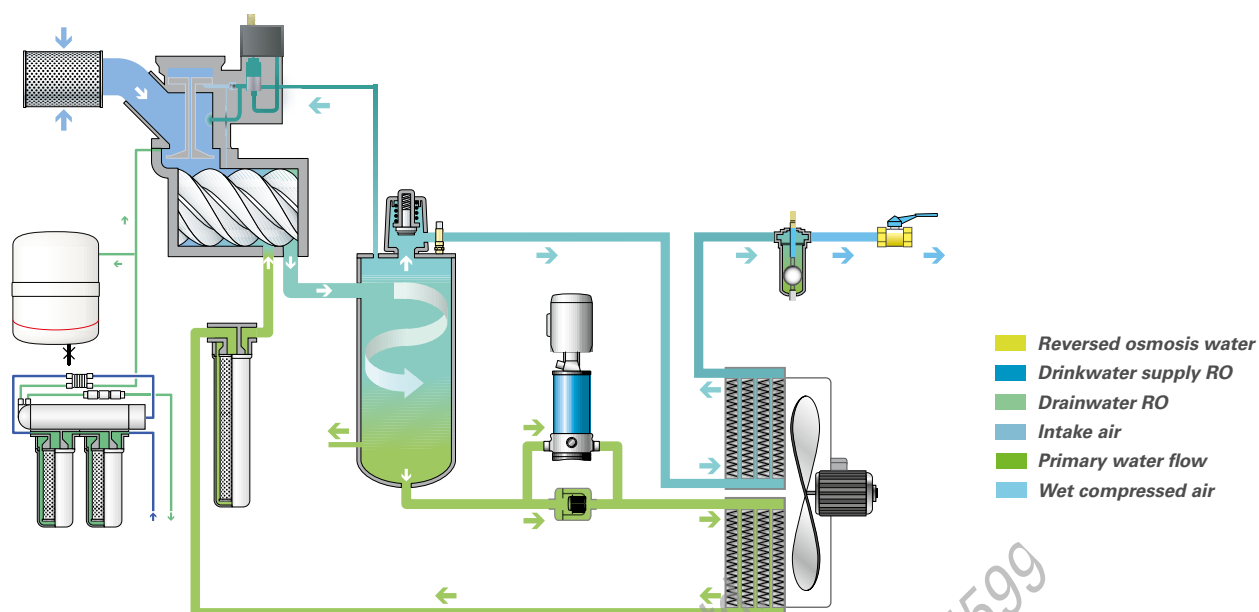
(2) Unit performance measured according to ISO1217 ed.04 Annex E, measured at 7 bar.

(3) Mean sound level according to ISO2151, tolerance 3 dB(A).

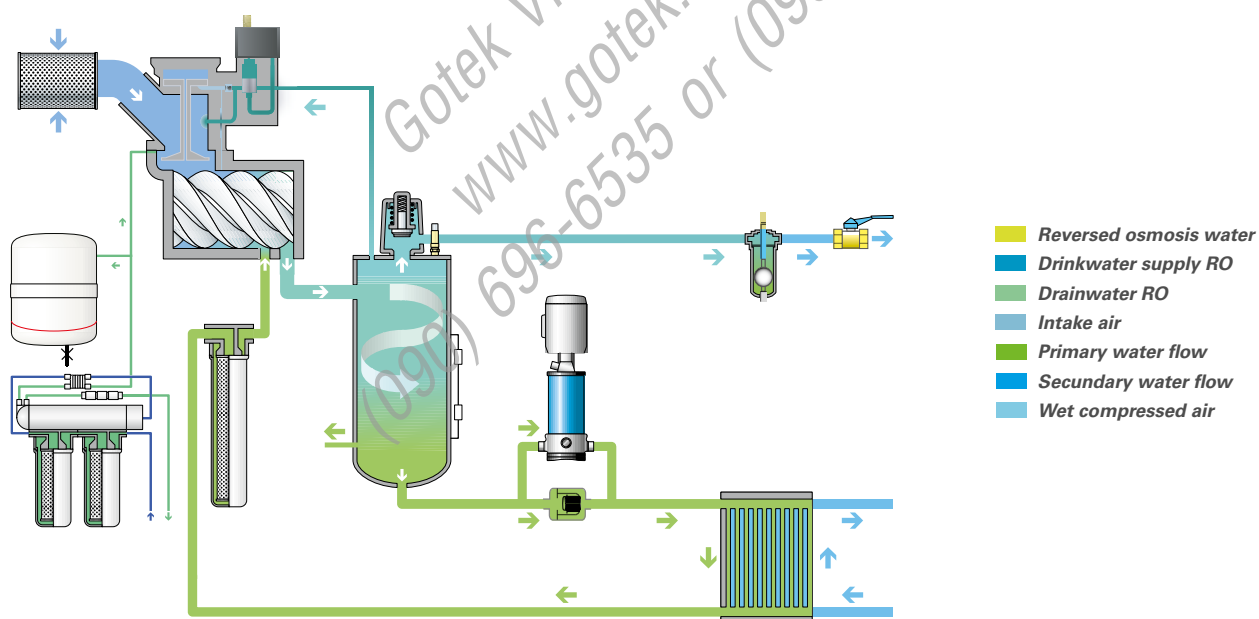
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At Atlas Copco we provide the industry's broadest portfolio of offerings to help you achieve the most efficient oil-free compressed air system. Whether you work in a larger production installation or smaller environment, with a complete range of air-cooled and water-cooled AQ compressors to choose from, you can meet your specific needs and optimize your production process at the same time.

## FLOW DIAGRAM AQ AIR-COOLED PACK



## FLOW DIAGRAM AQ WATER-COOLED PACK





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