

Atlas Copco Generators

QAC, super silent, heavy-duty, power container



QAC 500 - 750 - 1000

Atlas Copco

QAC 500-750-1000

Innovative design

Easily handled by crane, lift or truck, the robust 20ft CSC ISO container enclosure has lockable wide opening doors so that all components are always within reach, ensuring that maintenance and service is both easy and stress free.

The innovative dual compartment design - with the engine/alternator compartment separated from the cooler compartment - ensures maximum efficiency while operating in the most extreme conditions. With the separated power cubicle, opposite to the control cubicle, safe operation is always guaranteed.

Dual fuel filter with water separator to safeguard the engine

Easy filter maintenance



Reliable Engine

Our experts have chosen Deutz engines because of their very high performance levels combined with their extremely compact dimensions. EMR electronic controls assure maximum power output, while reducing smoke emissions and optimising fuel consumption.

Deutz engines are environmental friendly and compliant with the latest TA Luft and EPA Tier exhaust emission standards. Long service intervals and low fuel consumption reduce the total cost of ownership for our customers.

With global presence and local service, the heart of the generator is destined to beat on for a long time – if not forever!



Automatic oil filler extending the service intervals



Dual fan arrangement reducing the noise levels



Oil draining pump



Coolant heater ensuring start-up in cold conditions

Fuel connections



Alternator

The synchronous brushless type, Newage alternator is equipped with a Permanent Magnet Generator (PMG) to guarantee a powerful and fast voltage build-up-system which allows overloading and electric motor starting. The alternator is standard equipped with an anti-condensation heater designed to extend its lifespan.



Control system

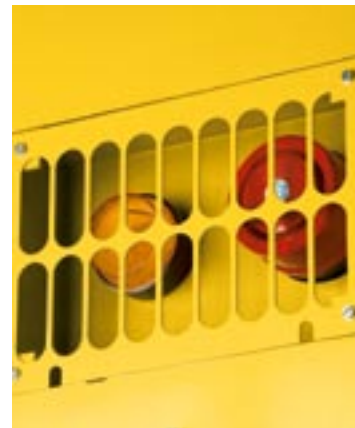
The state-of-the-art Atlas Copco Qc 4001™ control panel includes features such as an LCD screen with numerous read-outs, warnings and shutdowns – all displayed in various local languages.

Applications from “Island operation” and “Automatic Mains Failure” to the most complicated paralleling operations such as “Load sharing”, “Peak shaving” and “Base load” operations, are done with this single, high-tech generator controller.

This multi-purpose control system makes the QAC series generator an outstanding, easy-to-operate machine, offering a single solution to the most varying applications.



Re-positionable control panel



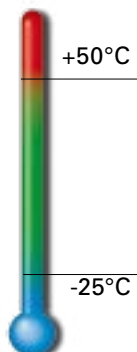
Audible & visual alarm to guarantee a safe operation



Easy accessible power cable connections

Designed for extreme weather conditions

The QAC series generators are built to withstand the most extreme temperatures, and so designed to work in all weather conditions! A built-in engine coolant heater ensures quick and easy start-up in cold conditions, while a variable speed electric cooling fan allows continuous operation in higher temperature environments, like the desert for example.



QAC 500-750-1000

Whether you need high power for continuous applications or stable power on stand-by, Atlas Copco QAC Super Silenced generators are the obvious choice for you.

Our extremely reliable QAC series generators are especially made to meet the most exacting of demands. Designed with safety in mind, all QAC series generators have a four pole main motorised circuit breaker, providing overload and short circuit protection, an emergency stop, automatic engine alarms and shut-downs and is standard equipped with refinery equipment for safe operation at petroleum plants. The generators are entirely EC safety regulation compliant.

With its 'whisper quiet' operation sound levels, the QAC series generators are perfectly suited for operations in the most noise sensitive of environments.

The double skinned and removable fuel tank with leakage sensors and spillage free frame construction, prevents accidental engine fluids or fuel spills, eliminating the risk of any ground pollution. Atlas Copco cares for the environment!





Traveling in Europe with my main attraction “The Roller Coaster”, I’m dealing frequently with new places and new people. So while **noise and emission legislations** are different throughout Europe, I know that my QAC series generator will always beat the maximum noise levels allowed – and often be **far below the limit**. Besides that, fun fairs are often set up in urban areas and I’d rather have my customers enjoy the fun, instead of having to listen to the background noise of the generator that provides the power.



Safety first is the overriding concern in the petrochemical industry. The very nature of our business means that we are working with and evaluating risks every day ... but we manage those risks every step of the way. The selection of our power generators are part of that **risk management** ... this is why we have chosen the QAC series generator, for its **reliable design and its safe and easy operation**. The features in the machines ensure a healthy and safe work environment for all our people, and we wouldn’t have it any other way.



Building sites are not the easiest of environments – never have been, never will be. We needed a machine that was tough enough to **withstand the harsh environment** of construction yards. Always on call power, and no worries about a few knocks and scratches. The QAC series generator gave us what we wanted and more. It’s **rigid design, solid and robust construction**, proved to be more than ready for all our big jobs. What more could we ask for?



Providing power on drill rigs is really not the easiest task on earth. We value **space** a lot – just as we value **reliability and safe operations**. Surveying the power generation market, our choice fell on the QAC series generator, because it packs a lot of punch for the relatively small space it occupies. The QAC series generator is by far the best compromise package on the market. With Atlas Copco, we know what we get: **heavy-duty power in the most optimal unit imaginable**.



Working in the energy sector means that you get used to being demanding on your power source, but actually, the needs are very simple. Non-stop power – and that means no fluctuations and continuous all day operation. We want **stable power** from our generator **combined with optimal fuel consumption** whatever the circumstances... wherever we are working. And as far as we are concerned... the Atlas Copco QAC series generators deliver across the line and they’ve never let us down.

Technical data

Performance data ⁽¹⁾

		QAC 500		QAC 750		QAC 1000	
		50	60	50	60	50	60
Rated frequency	Hz						
Rated power factor		0.8	0.8	0.8	0.8	0.8	0.8
Rated voltage (Line-to-Line)	V	400	480	400	480	400	480
Rated power (LTP)	kVA/kW	550/440	495/396	800/640	950/760	1100/880	1250/1000
Rated power (PRP)	kVA/kW	500/400	450/360	750/600	875/700	1000/800	1140/912
Rated current (LTP)	A	794	595	1155	1143	1588	1503
Rated current (PRP)	A	722	541	1083	1052	1443	1371
Operating temperature	min./max.	-25°C/+45°C		-25°C/+45°C*		-25°C/+45°C	

Engine

		DEUTZ		DEUTZ		DEUTZ	
		BF8M 1015 CP		TBD 616 V12		TBD 616 V16	
Make		DEUTZ		DEUTZ		DEUTZ	
Model		BF8M 1015 CP		TBD 616 V12		TBD 616 V16	
Speed	RPM	1500	1800	1500	1800	1500	1800
Rated net output (PRP)	kWm	448	386	657	747	876	995
Coolant		Liquid		Liquid		Liquid	
Number of cylinders		V8		V12		V16	
Single step load capability	%	100	100	85	100	100	100
Speed governor		Electronic		Electronic		Electronic	
Single step load acceptance	%	60	95			65	75

Alternator

		Newage		Newage		Newage	
		HCI 534 E1		HCI 634 G1		HCI 634 K1	
Make		Newage		Newage		Newage	
Model		HCI 534 E1		HCI 634 G1		HCI 634 K1	
Rated output	kVA	610	750	810	1000	1130	1438
Insulation (stator & rotor)	Class	H	H	H	H	H	H
Enclosure protection	IP	23	23	23	23	23	23

Consumption

Fuel tank capacity	l	1500	1500	1500	1500	1500	1500
Fuel consumption at full load	l/h	100	97	127.2	148.8	185	219
Fuel autonomy at full load	h	15	15	10.1	8.6	8	7

Noise emissions

Max. sound pressure level (LPA) at 7 m	dB(A)	61	64	62 (66*)	64 (68*)	64	70
Max. sound power level (LWA)	dB(A)	92	96	93 (97*)	96 (100*)	96	101

acc. 2000/14/EC OND

Dimensions & weights

Weight (Dry/Wet)	kg	10750/12358		13439/15027		14515/15415	
Dimensions	m			6.06 x 2.44 x 2.59			
				20 ft CSC - ISO container			

* The QAC 750 is also available with high ambient temp. variant: operating temp.: +50 °C (With variance on noise emissions)

Built and tested to ISO 9001 quality assurance standards

Atlas Copco's stringent manufacturing standards follow ISO 9001 quality assurance regulations. All components are produced and tested to exacting standards for optimum performance in the most demanding conditions.

⁽¹⁾ Reference condition:

For engine performance to ISO 3046/1-1995
Standard reference conditions are: 27°C air inlet temperature, 150m above sea level.



Safeguarding your investment and your peace of mind



The availability, quality and maintenance of your generator has a direct effect on your production performance and ultimately affects your bottom line. Irregular, insufficient or unprofessional maintenance can result in expensive downtime with a subsequent loss of production, affecting your profitability and damaging your reputation. Atlas Copco carefully monitors the maintenance needs of all its generators. Service intervals are established to ensure optimum performance is maintained and operating costs reduced. Proper maintenance will ensure your generator runs as efficiently and economically as possible.



Atlas Copco has compiled a portfolio of aftermarket services that guarantee the protection of your investment and provide the highest quality service, both locally and worldwide. Depending on your requirements, we can deliver parts kits, cover your individual service calls or provide a range of service plans, all tailored to suit your needs.

Genuine Parts

Atlas Copco makes no compromise on the quality of replacement parts: only genuine parts provide the longevity and reliability you require. Selected high quality Atlas Copco engine oils are also available. These meet the stringent quality specifications required to enable your unit to run smoothly, shift after shift.



ServicePlan

For complete peace of mind, Atlas Copco has a range of service agreements to suit your needs. Maintenance budgets are clear and simple, with prices fixed in advance. Operational costs come down and efficiency goes up. You choose the service options and the time period to suit your needs.

Commitment

Atlas Copco employs two thousand factory trained service technicians in over 150 countries worldwide. Should a problem ever occur, access to their expertise is only a telephone call away. With years of experience and ongoing investment, these QAS generators are designed with reliability in mind and meet the highest quality standards. The entire unit is guaranteed from any defects for a full 2 years from the date of start-up. Some restrictions do apply as it relates to hours of operation.