

Atlas Copco Generators

QAS 14-100

Environmental friendly package
purpose built to go anywhere



Team-up for Total Solutions



QAS Generators

A complete range comprising the QAS 14, QAS 20, QAS 30, QAS 45, QAS 60, QAS 80 and QAS 100 models. The QAS range is powered by the Perkins 400 and 1100 Series engines and are equipped with Newage-Stamford alternators.

A wide range of available options allow you to customize your QAS generator according to your needs.

The Products and Features you asked for

As part of a continual product developing process, our designers and engineers have talked with and visited many of our customers. Their findings have been turned into a product concept that is uniquely super-silenced, smooth running, and clean to operate.

Protect your investment

A new design, excellent build quality, new safety features and the introduction of state-of-the-art technology allowing remote control and monitoring will guarantee that your investment is well protected.

Our environmental approach to design and manufacturing resulted in a super-silenced canopy, effectively reducing noise levels to well below actual and future requirements of European regulations.

QAS generators are designed with reliability, durability, serviceability and low-cost of ownership as main design drivers, ensuring your QAS generator retains a high residual value, even after many years of heavy duty.

Durability

The canopy is zinc treated, with a powder coat paint finish for durability and excellent resistance to corrosion. The generator canopy is extremely robust and solid and is directly mounted on the base frame.

QAS generators are purpose designed and built to withstand the rough on-site handling and are suitable for use in demanding environments and conditions. The canopy is fully lockable with a common key for extra safety and security.

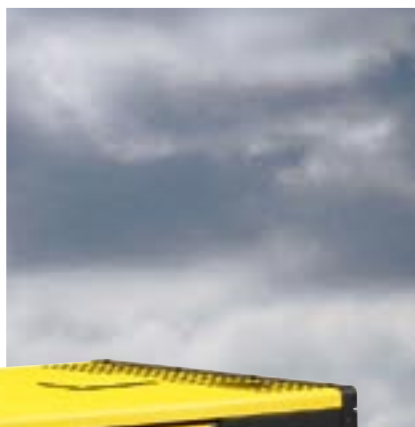
The QAS generator looks good for longer.



offering everything you asked for

High capacity fuel filter/water-separator is installed as standard which protects the engine and extend the life-time of the generator.

An **adjustable earth leakage detection** will protect the operator and the downstream equipment.



The two stage **heavy duty air filter** with safety cartridge is located within the generator enclosure. A filter indicator will inform when the air filter should be cleaned or replaced.

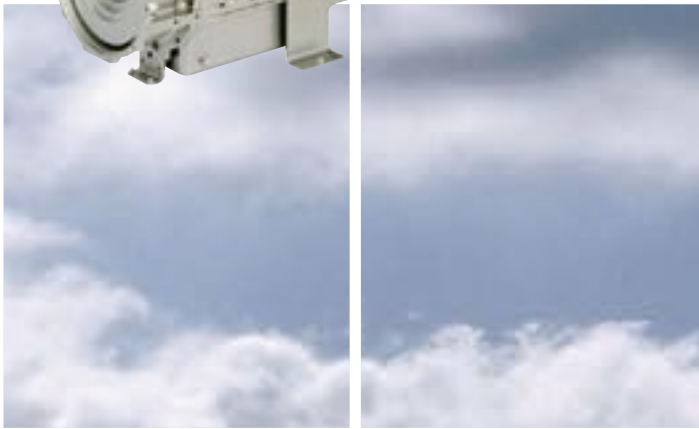
QAS generators are well balanced so the units can be **safely lifted by crane**.

Benefits for our environment

Respect for the environment is of paramount importance to Atlas Copco. Our design and manufacturing approach, and the different features attest to this fact. There is a standard sealed spillage free base frame, ensuring that any spills are contained inside the enclosure. The Perkins engines fully comply with the EPA Tier II, EC Stage 2 and TA Luft exhaust emission legislations. Our super silenced canopies offer better than current (and future OND 2006) EU regulations with sound levels between 60-68 dB(A).



The QAS generators are powered by the 400 and 1100 Series Perkins engines. These engines are designed with the demanding customer in mind: they are compact, powerful, reliable, cost effective, quiet and clean in operation.



The QAS generators are equipped with the synchronous brushless type Newage-Stamford alternators. The BC alternators are equipped with auxiliary windings and the UC are equipped with PMG, both offer excellent “start up” and good short circuit capability.

Designed with the operator in mind

QAS generators are easy and safe to manoeuvre. The robust steel skid incorporates two forklift slots and tie down points. The wider skid protect the canopy while moving the unit with a forklift. The generator can also be safely lifted by means of the lifting beam.

Wide opening doors and easy removable panels offer excellent accessibility to all components. All components which need to be serviced are centralized at one side of the generator.

All key operating functions can be supervised without opening the canopy. The comprehensive control panel is covered by a tough transparent cover that provides protection from humidity and unauthorized access.

The lockable fuel filler cap is recessed and can be easily reached to top up the generator.

Cost of Ownership

The cost of ownership has been pushed as low as possible. Fuel and oil consumption has been significantly improved. Service intervals have doubled to 500 hours and the time taken to complete a service has also been reduced with the single side servicing.

Trouble-free operation is guaranteed with the standard fit high capacity fuel filter/water separator. The two -stage heavy-duty air filter extends the life of the filter and is equipped with a safety cartridge to allow air filter change or cleaning even whilst the generator is running.

Safety

An adjustable earth leakage protection protects the operator and the downstream equipment.

The design of the quick fix electrical connections eliminates the risk of accidental contact.

Sockets, door handles and the fuel filler are recessed to avoid damage and injuries to third parties.

The emergency stop push button is recessed to prevent damage, but is in easy reach without opening the main unit door.

Technical Data

Performance data (1)

Type		QAS 14	QAS 20	QAS 30	QAS 45	QAS 60	QAS 80	QAS 100
Rated speed	r/min	1500	1500	1500	1500	1500	1500	1500
Rated power factor (lagging)		0.8	0.8	0.8	0.8	0.8	0.8	0.8
Rated Prime power	kVA	13	20	30	45	60	80	100
Rated Standby power	kVA	14	22	33	50	66	88	110
Rated Voltage Line to line	V	400	400	400	400	400	400	400
Rated Current	A	18	28	43	65	87	116	144
Maximum sound power level (LWA) according to 2000/14/EC OND	dB(A)	85	87	89	88	90	89	93
Maximum sound pressure level at 7m and 75% load	dB(A)	60	62	64	63	65	64	68

Basic unit

Fuel autonomy at full load	h	13	9	21	14	11	10	8
Capacity fuel tank	l	45	45	135	135	135	170	170

With optional skid fuel tank

Fuel autonomy at full load	h	93	66	51	47	37	35	29	
Capacity fuel tank	l	315	315	460	460	460	571	571	
Fuel consumption	100% load	l/h	3.2	4.7	6.4	9.7	12.5	16.4	21.8
	75% load	l/h	2.7	3.6	5.2	7.9	9.6	12.4	16.5
	50% load	l/h	1.9	2.7	3.7	5.9	6.8	8.8	11.9

Design data

Alternator

Make		Newage	Newage	Newage	Newage	Newage	Newage	Newage
Insulation (rotor & stator)	class	H	H	H	H	H	H	H
Degree of protection	IP	23	23	23	23	23	23	23

Engine

Make		Perkins	Perkins	Perkins	Perkins	Perkins	Perkins	Perkins
Model		403C-15	404C-22	1103A-33G2	1103A-33TG1	1103A-33TG2	1104A-44TG2	1104C-44TAG2
Rated net power	kW	12	18.5	27	41.3	59.3	71.9	89
Number of cylinders		3	4	3	3	3	4	4
Bore	mm	84	84	105	105	105	105	105
Stroke	mm	90	100	127	127	127	127	127
Displacement	l	1.5	2.2	3.3	3.3	3.3	4.4	4.4

Unit dimensions (Basic unit)		QAS 14	QAS 20	QAS 30	QAS 45	QAS 60	QAS 80	QAS 100
Length	m	2.07	2.07	2.45	2.45	2.45	2.94	2.94
Width	m	1.00	1.00	1.10	1.10	1.10	1.10	1.10
Height	m	1.18	1.18	1.48	1.48	1.48	1.50	1.50
Weight (dry)	kg	921	946	1352	1454	1456	1699	1810
Weight (ready to operate)	kg	969	994	1460	1547	1566	1854	1960



Unit dimensions (with Optional skid fuel tank)		QAS 14	QAS 20	QAS 30	QAS 45	QAS 60	QAS 80	QAS 100
Length	m	2.07	2.07	2.45	2.45	2.45	2.94	2.94
Width	m	1.00	1.00	1.10	1.10	1.10	1.10	1.10
Height	m	1.47	1.47	1.77	1.77	1.77	1.78	1.78
Weight (dry)	kg	1098	1123	1577	1679	1681	2129	2645
Weight (ready to operate)	kg	1281	1306	1999	2086	2105	2240	2756



Unit dimensions (with Optional undercarriage)		QAS 14	QAS 20	QAS 30	QAS 45	QAS 60	QAS 80	QAS 100
Length	m	3.58/3.75	3.55/3.71	TBA	TBA	TBA	TBA	TBA
Width	m	1.41	1.41	TBA	TBA	TBA	TBA	TBA
Height	m	1.51	1.51	TBA	TBA	TBA	TBA	TBA
Weight (dry)	kg	1017	1042	TBA	TBA	TBA	TBA	TBA
Weight (ready to operate)	kg	1065	1090	TBA	TBA	TBA	TBA	TBA



Built and tested to ISO 9001 quality assurance standards

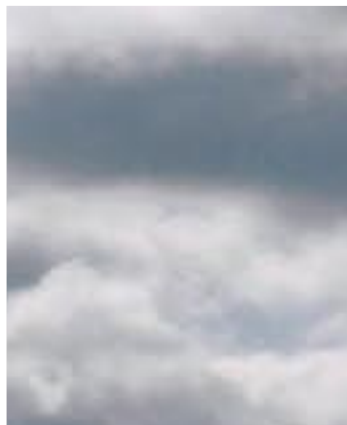
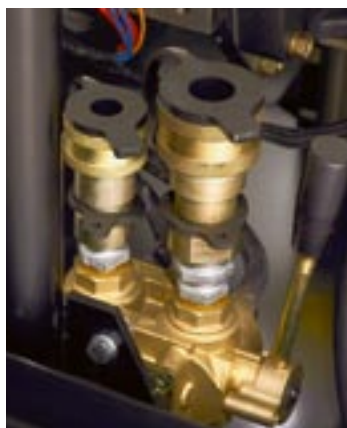
Atlas Copco's stringent manufacturing standards follow ISO 9001 quality assurance regulations. All components are produced and tested to exacting standards for optimum performance in the most demanding conditions.

⁽¹⁾ Reference condition:

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

Options

QAS generators can be supplied with **external fuel tank connections**. Fuel feed and returns pass through 3-way valves (operated by one handle) and allows to change over from the internal fuel tank to an external bulk tank.



Spark arresting silencer can be installed inside the generator enclosure.

Customised colour

For other special colour configurations please contact your local Atlas Copco Customer Centre.



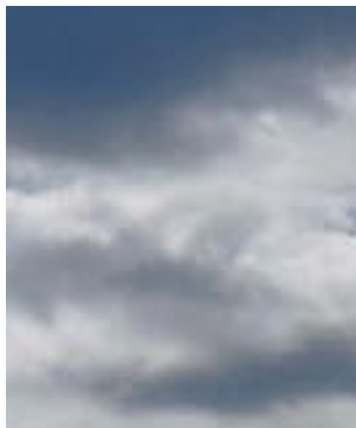
QAS generators can be supplied with an **optional skid fuel tank** which can easily be fitted between the base frame and the skid. All fuel lines are internally and makes the generator tamperproof. The external fuel filler remains. This option results in a fuel autonomy of between 29 – 93 hours depending on the model.

Options

The Qc1001™ is our basic control panel, it adjusts and monitors all operations and can be controlled from a **remote distance**.



The Qc4001™ is our advanced control panel, amongst other features it allows for **synchronisation between multiple generators** or with the mains.



The **terminal board** allows customers to adapt the output to their specific requirements combined with a difference on sockets.

QAS 14 – 20 with lighting tower.
Essential light for professional players
See also our separate **Lighting tower** sales leaflet.

Options - Matrix

QAS generators can be supplied with a **coolant heater** to ensure that the generator will be available at any time when needed.



A **battery isolator switch** allows to switch- off the battery when carrying out maintenance or when needed

Electrical Options	QAS 14	QAS 20	QAS 30	QAS 45	QAS 60	QAS 80	QAS 100
Adjustable earth leakage detection	○	○	○	○	○	○	○
Battery conditioner	○	○	○	○	○	○	○
Battery isolator	○	○	○	○	○	○	○
Coolant heater	○	○	○	○	○	○	○
Dual frequency (50 & 60 Hz)	○	○	○	○	○	○	○
Electronic governor	○	○	○	○	○	○	●
Insulation monitoring relay	○	○	○	○	○	○	○
Qc1001™ - Local & Remote start	○	○	○	○	○	○	○
Qc3001™ - Automatic start	○	○	○	○	○	○	○
Qc4001™ - Synchronising	-	-	-	-	-	○	○
230V 1-phase	○	○	○	-	-	-	-
230V 3-phase	○	○	○	○	○	○	○
400V 3-phase	○	○	○	○	○	○	○
Multi-voltage with selector switch	○	○	○	○	○	○	○
Sockets (only)	○	○	-	-	-	-	-
Terminal board (only)	○	○	○	○	○	○	○
Terminal board with EDF Neutral	○	○	○	○	○	○	○
Terminal board with sockets	○	○	○	○	○	○	○
Lighting towers (road & off road)	○	○	-	-	-	-	-
Change over contactor kits	○	○	○	○	○	○	○

Mechanical Options	QAS 14	QAS 20	QAS 30	QAS 45	QAS 60	QAS 80	QAS 100
External fuel tank connections (quick couplings)	○	○	○	○	○	○	○
Overspeed valve	○	○	○	○	○	○	○
Spark arrestor	○	○	○	○	○	○	○
Refinery equipment (overspeed valve & spark arrestor)	○	○	○	○	○	○	○
Road trailer (adjustable with brakes)	○	○	○	○	○	○	○
24 Volt adapter	○	○	○	○	○	○	○
Ball coupling (loose)	○	○	○	○	○	○	○
Different towing eyes	○	○	○	○	○	○	○
Optional skid fuel tank	○	○	○	○	○	○	○
Customised colour (one canopy color & special color)	○	○	○	○	○	○	○
Additional literature set	○	○	○	○	○	○	○

Standard ●
 Option ○
 Not available -

We care about the environment



Atlas Copco believes in doing business in a manner that preserves the environment for future generations. So even as legislation for environmental protection gets tougher each and every year, Atlas Copco meets and often surpasses those benchmarks.

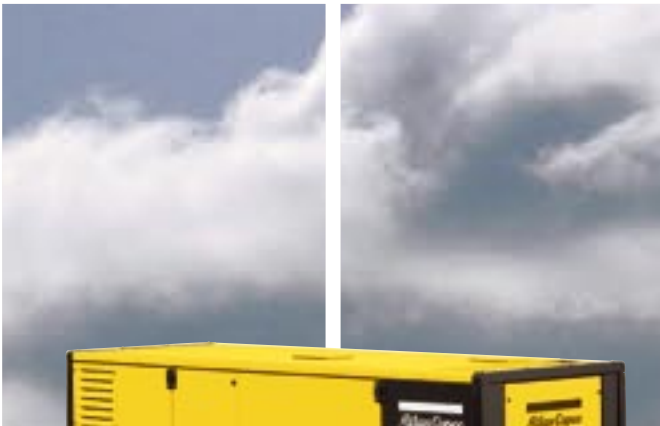


The products are not only designed to operate with the environment in mind, but the way they are manufactured is as important:

- to prevent any kind of oil, coolant or fuel pollution - spillage free frames are available on all models.
- environmentally friendly materials are used that are not only less energy consuming to make, but recyclable as well.

As a company, we take our engagements seriously, and to this end have obtained and maintained the ISO 14001 certification:

- that proves that we implement, maintain and improve our own environmental management systems.
- that ensures conformance to our own stated standards and policies in the matter.
- that ensures compliance with environmental laws and regulations.



The environment - today and for future generations - is a top priority for our company. We aim to set the standards by which others will be judged. And we aim to maintain those standards for many years to come.

All QAS generators meet current European and US legal requirements, or are even better, relating to the working environment and regulations concerning safety, exhaust emissions and noise. The Super-silenced design makes QAS generators very suitable for operation in noise sensitive environments even during the night.



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

The entire unit is guaranteed from any defects for a full 12 months from the date of start-up irrespective of number of hours of operation. In addition to that, the entire generator assembly, the voltage regulator and voltage changeover switch are guaranteed a full 24 months from the date of start-up.

Some restrictions do apply as it relates to hours of operation, and specifics may vary for the different motors used.



Use only authorized parts. Warranty or Product Liability does not cover any damage or malfunction caused by the use of unauthorized parts.

Visit our website: www.atlascopco.com