

# Technical data

## Performance data <sup>(1)</sup>

Type		QAX 12		QAX 20
		400V - 3PH	230V - 1PH	400V - 3PH
Configuration				
Rated speed	r/min	1500	1500	1500
Rated power factor - lagging		0.8	1	0.8
Rated apparent power - PRP	kVA	12	10.1	20
Rated active power - PRP	kW	9.6	10.1	16.0
Rated Voltage line to line	V	400	230	400
Rated Current	A	17.3	43.9	28.9
Maximum sound power level ( LWA ) complying with 2000/14/EC OND	dB(A)	95		95
Maximum sound pressure level at 7m and 75% load	dB(A)	70		70
Fuel autonomy at full load	h	11.5		15
Capacity fuel tank	l	40		80
Fuel consumption at full load	l/h	3.47		5.26

## Sockets

CEE 3PH 32 Amp 400 V	1	1
CEE 3PH 16 Amp 400 V	1	1
CEE 1PH 63 Amp 230 V		1
CEE 1PH 32 Amp 230 V		1
Domestic 1PH 16 Amp 230 V (CEE or SCHUKO)	1	1

## Design data

### Alternator

Insulation - stator	class	H	H
Insulation - rotor	class	H	H
Number of wires		12	12

## Engine

Make		DEUTZ	DEUTZ
Model		F2M 2011F	F3M 2011F
Rated net output	kW	12	19
Coolant		Oil	Oil
Number of cylinders		2	3
Bore	mm	94	94
Stroke	mm	112	112
Swept volume	l	1.55	2.33

## Unit dimensions (Basic unit)

Type		QAX 12		QAX 20
		400V - 3PH	230V - 1PH	400V - 3PH
Configuration				
Lenght	m	2.02	2.02	2.02
Width	m	1.04	1.04	1.04
Height	m	1.02	1.02	1.02
Weight*	kg	672	691	737
Weight**	kg	706	725	804

\* weight dry, \*\* weight ready to operate



## Unit dimensions (with Undercarriage - optional)

Type		QAX 12				QAX 20	
		400V - 3PH		230V - 1PH		400V - 3PH	
Tow-bar		with brakes	without brakes	with brakes	without brakes	with brakes	without brakes
		fixed - adjustable	fixed	fixed - adjustable	fixed	fixed - adjustable	fixed
Lenght	m	3.16 - 3.40/3.56	3.16	3.16 - 3.40/3.56	3.16	3.16 - 3.40/3.56	3.16
Width	m	1.41	1.41	1.41	1.41	1.41	1.41
Height	m	1.26	1.26	1.26	1.26	1.26	1.26
Weight*	kg	799 - 814	764	818 - 833	783	864 - 879	829
Weight**	kg	833 - 848	798	852 - 867	817	931 - 946	896

\* weight dry, \*\* weight ready to operate



## 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.

### <sup>(1)</sup> Reference condition:

For engine performance to ISO 3046/1-1995

Standard reference conditions are:

27°C air inlet temperature.

150m above sea level.



The face of innovation

## Safeguarding your profitability and investment... ...for 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, we can cover your individual service calls or provide a range of service plans, 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 demand. 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 Direct Daily Deliveries, genuine parts are delivered to your doorstep in record times, wherever you are.



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



# Atlas Copco Generators

QAX 12-20

New Portable Generators for  
Rental & Construction companies



*Team-up for Total Solutions*



# QAX Generators

Have been designed to meet the demands of rental fleets, construction applications and public utility companies and complement our proven QAS generator range.

## We care about our environment

Environmental features include a standard sealed spillage-free base frame, which ensures that all spillages will be contained inside the enclosure avoiding external site pollution.

Our environmental approach into design and manufacturing results in a canopy which is effective at reducing noise to a level below the actual and future (limits for 2006) European regulations (OND 2000/14/EC).

The Deutz 2011 engines fully comply with TA-Luft 2000 exhaust emission regulations.





### ① Low operational cost

Long service intervals and low fuel consumption of the Deutz 2011 engines bring savings in operational costs.

### ② High fuel autonomy

The high capacity fuel tank has sufficient capacity to operate the generators at full load for more than on a 8-hours shift.

### ③ Easy to operate

All instruments and key operational functions are located behind a transparent cover, ensuring easy monitoring, safety and foolproof operation, whether the canopy is open or closed. QAX generators are equipped with a local and remote start facility as standard. These controls are grouped above the socket outlets.



### ④ Easy to service

The wide opening canopy which is fitted as a hinged unit can easily be opened or closed smoothly with the aid of two sturdy gas springs allowing excellent accessibility to all service components.

The removable side panels increase the ease of serviceability of the generators. All service points are located on one side of the generator.

### ⑤ Easy to transport

Forklift slots, tie down points and lifting beam ensure easy manoeuvrability for construction site usage.

The generators are also available with optional trailer-mounted variants.

## QAX product specification

### Engine

- QAX generators are powered by the New Deutz 2011 diesel, 2- or 3 cylinder naturally aspirated in-line engines.
- The combined oil cooling and lubrication prevents corrosion and cavitation.
- Engines are equipped with a closed breathing circuit.
- Excellent load takeover characteristics ensure prompt power supply.
- Long service intervals and all service points on the same engine side reduce the Total Cost of Ownership.
- An acoustically optimized crankcase results in Low noise emission.
- The 2011 engines fully comply with TA-Luft 2000.

### Alternator

- Synchronous brushless type Newage alternators are fitted.
- Rotor and stator windings are Class H and IP23 enclosure.
- The auxiliary winding of the alternator allows overloading to easily start electric motors.

### Control system

- Standard instrumentation includes: analogue Ammeter, Voltmeter, Hours run counter;
- Standard controls includes: Control module, selector switch for Local and Remote start possibility, emergency stop pushbutton with key, earth leakage protection for 16A domestic socket and an earth terminal to connect the earth rod.
- 3 sockets and one of the sockets is rated for full power output.
- Switches and pushbuttons are of the heavy duty industrial type.
- Protected by fused DC supply from the starting battery.

### Enclosure

- Is extremely sturdy and robust in order to withstand rough handling, typical of construction sites.
- Is produced from Zincor steel with a powder coat finish.
- The frame has a KTL epoxy layer coating with a powder coat finish, to ensure the generator retains a higher residual value.
- A standard sealed spillage-free frame, which will prevent that all fluids can be retained within the frame, eliminates spillage problems.
- Forklift slots and tie down points ensure easy manoeuvrability for construction site usage.
- The one-piece canopy opens fully and together with the removable side panels provide it fast and easy service accessibility.
- Local and Remote start are standard, and all controls are centralized above the socket-panel, one of the sockets is rated for full power output.

## Optional features

- Earth leakage protection on 3-phase sockets.
- Isolated ground protection.
- Three undercarriage versions are available: a fixed tow-bar with or without brakes and an adjustable tow-bar with brakes, to be combined with a variety of different tow-eyes.
- The QAX generators are also designed to be combined with our lighting towers.
- Customer color.

