

QES RANGE

50 Hz

The practical, reliable
predictable power
solution.

Atlas Copco



QES RANGE PREDICTABLE POWER FOR THE TOUGHEST WORKSITES

Specifically developed for the construction and general rental industries, the 9-40 kVA QES range is easy to use and straightforward to maintain. It's the practical Predictable Power choice, even for the most demanding worksites.

KEY BENEFITS

Easy to move	
Performance	
Versatility	
Easy-of-use	
Service efficiency	

SEGMENTS



CONSTRUCTION



RENTAL

Atlas Copco



CONVENIENT OPERATION

Easily accessed control cubicle, start button and back-lit fuel gauge.



USER-FRIENDLY CONTROL

The **Qc1011 controller** provides advanced engine monitoring and protection features. Performance and maintenance requirements can also be observed.



SERVICE EFFICIENCY

The external fuel and coolant filling points are conveniently placed and the unit allows for easy drainage of all liquids.



PREDICTABLE
POWER
APPLICATION-ORIENTED
MAINTENANCE
FRIENDLY

APPLICATION-ORIENTED DESIGN

The QES range has been designed and built for the construction and general industries. Standard features include a spillage free frame and a 500-hour service interval (QES 14-40). Options, including a manual drain pump, connections for an external fuel tank and a socket's box can upgrade the unit via retrofitting for ongoing flexibility.



QUALITY DESIGN

Reliable performance is ensured with the **Kubota engine**. Its tropicalized radiator enables operation in high ambient temperatures. The alternator provides stable voltage thanks to the digital voltage regulator and auxiliary winding.



EASY TO MOVE

The **stackable and compact** QES offers maximum portability. **Forklift slots** and a **lifting eye** facilitate transportation to your worksite. Different trailer options are also available.



STRAIGHTFORWARD MAINTENANCE

Removable panels for **easy access to spare parts and components**. Strong aftersales support via the Atlas Copco global service network ensures maximum uptime. Long service intervals reduce maintenance costs.



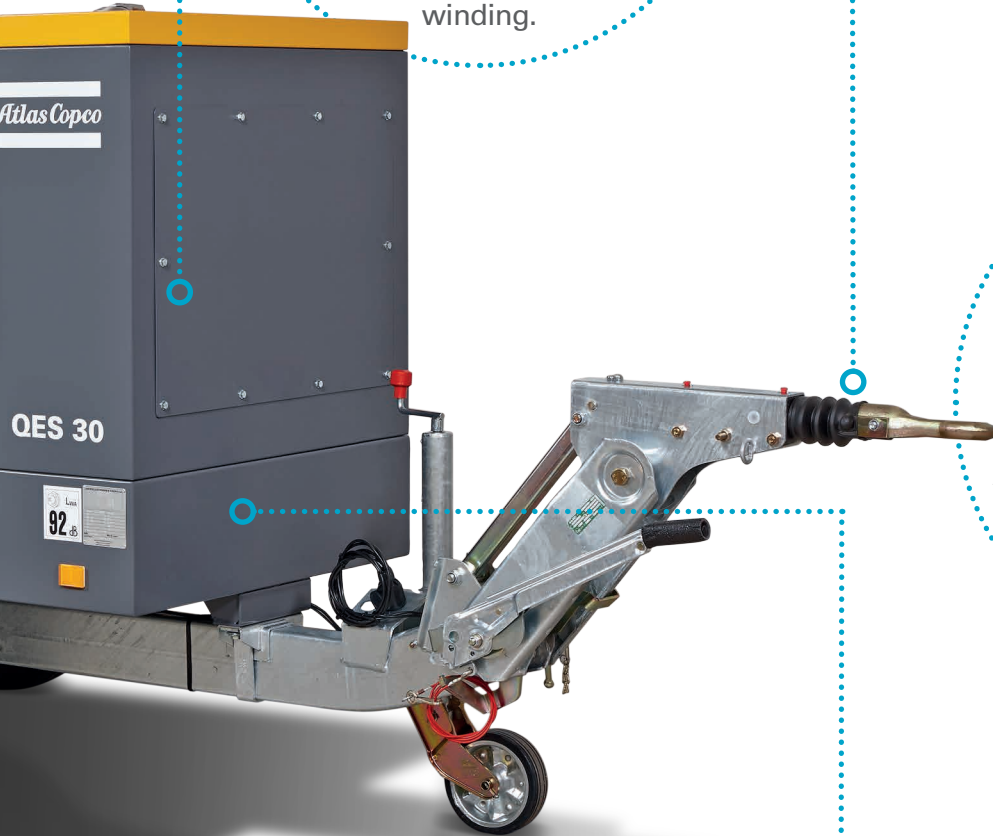
LONG AUTONOMY

The **fuel tank** allows for longer operation between refueling. The fuel tank is made from plastic to prevent rust and includes a cleaning hatch for easier maintenance.



TOUGH FRAME AND CANOPY

The canopy of the QES is finished with a **rustproof powder and galvanized coating**. A spillage free frame reduces any potential environmental impact.



TECHNICAL DATA

Performance data		QES 9	QES 14	QES 20	QES 30	QES 40	QES 40 ^(**)
Rated frequency	Hz	50	50	50	50	50	50
Rated voltage (line to line) ^(*)	V	400	400	400	400	400	400
Rated power factor (lagging)		0,8	0,8	0,8	0,8	0,8	0,8
Rated prime power (PRP)	kVA / kW	9 / 7,2	13,8 / 11	20 / 16	30 / 24	42 / 34	42 / 34
Rated standby power (ESP)	kVA / kW	10 / 8	16 / 12,8	21,5 / 17,2	32,5 / 26	46 / 37	46 / 37
Rated current (PRP)	A	13	19,9	28,9	42,9	60,6	60,6
Max. sound power level (LWA) acc. to 2000/14/EC OND	dB(A)	90	90	91	92	92	91
Max. sound pressure level (LPA) at 7m (23ft)	dB(A)	63	63	64	66	66	65
Capacity fuel tank (Standard/48H/1000l fuel tank)	l	55 / 250 / 990	55 / 250 / 990	55 / 250 / 990	105 / 480	105 / 480	105 / 480
Fuel consumption at 75% load (PRP)	l / h	2,1	2,8	3,9	5,5	7,6	7,2
Fuel autonomy at 75% PRP load (Standard / 48H / 1000l fuel tank)	h	26 / 119 / 471	19 / 89 / 353	14 / 64 / 253	19 / 87	13 / 63	14 / 66
Fuel consumption at 100% PRP load	l / h	2,4	3,5	5	6,9	9,8	8,8
Fuel autonomy at full load (Standard / 48H / 1000l fuel tank)	h	22 / 104 / 412	15 / 71 / 282	11 / 50 / 198	15 / 69	10 / 48	11 / 54
Performance class acc. ISO-8528/5		G2	G2	G2	G2	G2	G1

Alternator							
Model Mecc Alte		ECP3-1LN/4	ECP3-3L/4	ECP28-M/4	ECP28-VL/4	ECP32-3S/4	ECP32-3S/4
Rated Output (ESP 27°C / PRP 40°C)	kVA	11,8 / 11	16 / 15	21,5 / 20	32,6 / 30	48 / 42,5	48 / 42,5
Degree of protection / Insulation class		IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 21 / H	IP 21 / H
Excitation type / AVR model		MAUX / DSR	MAUX / DSR	MAUX / DSR	MAUX / DSR	MAUX / DSR	MAUX / DSR

Engine							
Model Kubota		D1105-BG2	D1703-M-BG	V2403-M-BG	V3300-DI-BG	V3800-DI-T-E3BG	V3800-DI-T-E2BG
Exhaust gas emission compliance		Below 19 kW	Below 19 kW	EU Stage 3A	EU Stage 3A	EU Stage 3A	EU Stage 2
Rated speed	rpm	1500	1500	1500	1500	1500	1500
Rated net power (with fan)	kW _m	8,4	12,8	18,8	27	38	38
Aspiration		Not required	Not required	Natural aspired	Natural aspired	Turbocharged	Turbocharged
Number of cylinders		3	3	4	4	4	4
Swept volume	l	1,12	1,7	2,4	3,3	3,8	3,8
Speed governor		Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic

Dimensions & weight (Standard / 48H / 1000l fuel tank)							
L x W x H	m	1,75 x 0,84 x 1,12 / 1,53 / 1,95			2,2 x 0,94 x 1,27 / 1,71		2,2 x 0,94 x 1,27 / 1,71
Weight (dry) with standard fuel tank	kg	600	670	720	945	1015	1015

^(*) Other voltages available: 380/220 V, 415/240 V and singlephase 230 V. Technical data may vary.

^(**) EU Stage 2 engine

STANDARD FEATURES

- Qc1011™ (over and undervoltage protection, remote start)
- Integrated forklift slots and lifting beam
- External drain points
- Big doors & service plates for superior accessibility
- Spillage free frame (110% containment)
- External fuel fill cap
- Dual stage heavy duty airfilter with safety cartridge
- Dual stage fuel filter with water separator
- Sound attenuated and rugged galvanized steel enclosure
- 4 poles main circuit breaker
- Earth leakage protection and earth pin
- Frame with integrated long autonomy plastic fuel tank

ELECTRICAL OPTIONS

- Single phase configuration
- Battery charger and battery cut-off switch
- Coolant heater
- Insulation monitoring relay
- 3-phase sockets configurations
- 1-phase socket 16 A (RIM, PIN or CEE version)

MECHANICAL OPTIONS

- Manual oil drain pump
- External fuel tank connection (EFT) and quick couplings
- Cold start (synthetic oil filling)
- Galvanized skid ⁽¹⁾
- Site trailer ⁽²⁾
- Homologated trailer with fixed towbar with brakes⁽²⁾
- Homologated trailer with adjustable towbar with brakes⁽²⁾
- Different towing eyes for trailers
- Customer colour
- Frame with integrated larger capacity fuel tank

⁽¹⁾ Not available with trailer nor 1000 liters fuel tank

⁽²⁾ Not available with long autonomy fuel tank version

PREDICTABLE POWER

Atlas Copco Predictable Power brings customers in the on-site generator and power generation business peace of mind with solutions that combine low cost of ownership, reliable performance and risk-free operation. Predictable Power is our core value and the guiding principle for how we design, test, build, commission and service our generators.

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DIMENSIONS: L x W x H

QES 40: 2,2 x 0,94 x 1,27

