

Atlas Copco Generators



QIX 15 - QIX 540

16 kVA LTP to 549 kVA LTP at 50 & 60 Hz



Atlas Copco

The QIX options include

- Earth leakage relay
- Qc™ generating set control panels for all standby and/or paralleling applications
- Power cubicle including circuit breaker
- Fuel tank
- Weather protected canopy
- Sound attenuated canopy
- Super sound attenuated canopy on
- Industrial muffler and flexible bellow
- Residential muffler and flexible bellow
- Under frame skid
- Under frame spillage free skid
- Battery isolation switch (24V models only)
- Radiator stone guard protection
- Hot spot guards
- Coolant heater 220/240 V
- Trickle battery charger 220/240 V
- External fuel tank connection
- Electrical fuel transfer pump (from an external fuel supply) and a 4-level float switch
- Manual fuel transfer pump (from an external fuel supply)
- Low fuel level shutdown
- Packing crate
- Additional literature set
- Electronic governor
- Terminal board
- Lifting beam
- Change over contactor kits
- Service Paks

The Qc™ control panel

The Qc™ control panel is available in 3 variants to satisfy all your imaginable needs:

Qc1001™



Local/remote start panel offering:

- Many protections like over and under voltage protection, over and under frequency protection, engine protections,...
- An LCD display to indicate all relevant information regarding the generator status, settings and maintenance with icons or text.
- Easy operating and configuration using the pushbuttons.
- Local manual start or remote start possibility

Qc3001™



Local/remote/AMF start panel offering:

- Next to local start and remote start also automatic mains failure (mains monitoring + automatic starting and stopping of the generator + automatic control of a panel with contactors to switch between generator and mains)
- Free adjustable alarms for several types of parameters.
- 11 different languages available to indicate information on the LCD screen

Qc4001™



Local/remote/AMF/paralleling start panel offering:

- All options of the Qc3001™
- Paralleling possible with other generators or with the mains
- Automatic synchronising and load sharing



QIX: peace of mind, night and day.

Especially designed for industrial prime power and standby applications the Atlas Copco QIX range of diesel powered generating sets aims to be "first in mind, first in choice".

By involving customers right through the QIX design process, Atlas Copco really have set the optimum balance between standardisation and customisation. Coming as standard all QIX generating sets are able to draw from the benefits of an exceptional quality, proven design; assembled using first class manufacturing techniques from carefully selected and purpose built components. But thanks to its innovative modular build concept every individual QIX generating set can be custom made to match its owner's unique requirements. Modules of options which can be easily added

or removed at the factory, or indeed after the machine is in service, include several different formats of generating set enclosure, silencing and operator control interface.

Every QIX generating set is designed to meet or exceed the relevant international standards including ISO8528 and is compliant with the current European Community safety and environmental regulations including OND2000/14/EC Outdoor Noise Directive. Atlas Copco is a fully accredited ISO9001 and ISO14001 company.

The QIX standard package includes

- Rugged steel base frame
- Heavy-duty generator diesel engine
- High ambient temperature cooling package
- Quality brushless alternator
- Alternator overload capability
- Diesel fuel pre-filter and water separator
- First fill engine oil and radiator coolant / anti freeze
- Pre-delivery inspection and load test
- Comprehensive set of manuals, literature and Certificates
- Starting battery
- Manually operated oil sump drain pump
- Electronic governor
- Fork lift slots

Principal data

Performance data (1)

QIX Model		QIX 16	QIX 22	QIX 30	QIX 44	QIX 65	QIX 85	QIX 105
Rated frequency	Hz	50	50	50	50	50	50	50
Rated speed	r/min	1500	1500	1500	1500	1500	1500	1500
Rated power factor (lagging) 3 phase	cos phi	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Rated voltage 3 phase	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Rated voltage single phase	V	230	230	230	230			
Rated apparent power (LTP) 3 phase	kVA/kW	16.7/13.3	22/17.6	30/24	44.2/35.4	65/52	91.6/73.3	107.8/86.2
Rated apparent power (PRP) 3 phase	kVA/kW	15/12	19.8/15.8	27/21.6	39.8/31.9	60/48	82.4/65.9	97/77.6
Rated apparent power (LTP) single phase	kVA/kW	13.5/13.5	17.7/17.7	24.7/24.7	31.1/31.1			
Rated apparent power (PRP) single phase	kVA/kW	12.1/12.1	15.9/15.9	22.3/22.3	31.1/31.1			
Nominal current (LTP) 400 V - 3 phase	A	24	32	43	64	94	132	156
230 V - single phase	A	59	77	108	135			

Deutz Engine design data

Model		F 3M 1011 F	F 3M 1011 F	F 4M 1011 F	BF 4M 1011 F	BF 4M 2012	BF 4M 1013 E	BF 4M 1013 EC
Rated LTP gross output	kW	16.4	21.3	28.7	41.6	57.9	85	102
Coolant		Oil	Oil	Oil	Oil	Water	Water	Water
Speed governing		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Aspiration		Natural	Natural	Natural	Turbocharged	Turbocharged	Turbocharged	Turbocharged intercooled
Number of cylinders		3	3	4	4	4	4	4
Fuel tank capacity (option)	l	70	70	70	70	120	120	120

Mecc Alte Alternator design data

Model		ECO28-S/4	ECO28-1L/4	ECO28-VL/4	ECO32-3S/4	ECO32-2L/4	ECO34-1S/4	ECO34-2S/4
AVR sensing		1 ph	1 ph	3 ph	3 ph	3 ph	3 ph	3 ph

Dimensions and weight

Open frame (no muffler)	LxWxH	m	1.80x0.87x0.96	1.80x0.87x0.96	1.80x0.87x0.96	1.80x0.87x0.96	2.28x1.06x1.23	2.28x1.06x1.23	2.28x1.06x1.23
Weight (dry/ready to operate)		kg	540/555	565/580	640/660	685/705	961/978	1131/1154	1200/1223
Weather protected canopy (no tailpipe)	LxWxH	m	1.80x0.87x0.96	1.80x0.87x0.96	1.80x0.87x0.96	1.80x0.87x0.96	2.28x1.06x1.71	2.28x1.06x1.71	2.28x1.06x1.71
Weight (dry/ready to operate)		kg	625/640	650/665	725/745	770/790	1181/1198	1351/1374	1421/1443
Sound attenuated canopy (no tailpipe)	LxWxH	m	1.80x0.87x1.27	1.80x0.87x1.27	1.80x0.87x1.27	1.80x0.87x1.27	3.13x1.06x1.71	3.13x1.06x1.71	3.13x1.06x1.71
Weight (dry/ready to operate)		kg	630/645	655/670	730/750	775/795	1396/1413	1566/1589	1636/1658
Super sound attenuated canopy (no tailpipe)	LxWxH	m	2.30x0.87x1.27	2.30x0.87x1.27	2.30x0.87x1.27	2.30x0.87x1.27			
Weight (dry/ready to operate)		kg	750/765	775/790	850/870	895/915			

Performance data (1)

QIX Model		QIX 15	QIX 20	QIX 27
Rated frequency	Hz	60	60	60
Rated speed	r/min	1800	1800	1800
Rated power factor (lagging) 3 phase	cos phi	0.8	0.8	0.8
Rated voltage 3 phase	V	400/380/240	400/380/240	400/380/240
Rated voltage single phase	V	240	240	240
Rated apparent power (LTP) 3 phase	kVA/kW	19.6/15.7	25.4/20.3	33.7/27
Rated apparent power (PRP) 3 phase	kVA/kW	17.6/14.1	22.9/18.3	30.3/24.3
Rated apparent power (LTP) single phase	kVA/kW	15.8/15.8	19.9/19.9	24.3/24.3
Rated apparent power (PRP) single phase	kVA/kW	14.3/14.3	18.2/ 18.2	23.2/ 23.2
Nominal current (LTP) 400 V - 3 phase	A	26	30	44
240 V - single phase	A	66	83	101

Deutz Engine design data

Model		F 3M 1011 F	F 3M 1011 F	F 4M 1011 F
Rated LTP gross output	kW	18.5	23.6	31.4
Coolant		Oil	Oil	Oil
Speed governing		Mechanical	Mechanical	Mechanical
Aspiration		Natural	Natural	Natural
Number of cylinders		3	3	4
Fuel tank capacity (option)	l	70	70	70

Mecc Alte Alternator design data

Model		ECO28-S/4	ECO28-1L/4	ECO28-VL/4
AVR sensing		1 ph	1 ph	3 ph

Dimensions and weight

Open frame (no muffler)	LxWxH	m	1.80x0.87x0.96	1.80x0.87x0.96	1.80x0.87x0.96
Weight (dry/ready to operate)		kg	540/555	565/580	640/660
Weather protected canopy (no tailpipe)	LxWxH	m	1.80x0.87x1.27	1.80x0.87x1.27	1.80x0.87x1.27
Weight (dry/ready to operate)		kg	625/640	650/665	725/745
Sound attenuated canopy (no tailpipe)	LxWxH	m	1.80x0.87x1.27	1.80x0.87x1.27	1.80x0.87x1.27
Weight (dry/ready to operate)		kg	630/645	655/670	730/750
Super sound attenuated canopy (no tailpipe)	LxWxH	m	2.30x0.87x1.73	2.30x0.87x1.73	2.30x0.87x1.73
Weight (dry/ready to operate)		kg	750/765	775/790	850/870

(1) Reference conditions

Ambient barometric pressure : 100 kPa

Ambient air temperature : + 25°C

Power rating definitions according to ISO 8528-1

LTP / Limited Time Power : is the maximum electrical power which a generating set is capable of delivering (at variable load), in the event of a utility power failure (for up to 500 hours per year of which a maximum of 300 hours is continuous running). No overload is permitted on these ratings. The alternator is peak continuous rated (as defined in ISO8528-3) at 25°C.

QIX 140	QIX 165	QIX 220	QIX 255	QIX 330	QIX 370	QIX 405	QIX 500	QIX 540
50	50	50	50	50	50	50	50	50
1500	1500	1500	1500	1500	1500	1500	1500	1500
0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
142.5/114	165.1/132.1	221.3/177.1	255.5/204.4	328.3/262.3	368.2/294.6	407.4/326	512.8/410.3	549.2/439.4
128.3/102.6	150/120	199.2/159.4	231.2/185	295.4/236.3	345.8/276.6	376.4/301.1	452/361.6	501.2/400.9
206	238	319	369	474	531	588	740	793
BF 6M 1013 E	BF 6M 1013 EC	BF 6M 1015	BF 6M 1015	BF 6M 1015 C	BF 6M 1015 C	BF 6M 1015 CP	BF 8M 1015 C	BF 8M 1015 CP
128	153	204	231	295	345	365	459	490
Water	Water	Water	Water	Water	Water	Water	Water	Water
Mechanical	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Turbocharged	Turbocharged intercooled	Turbocharged	Turbocharged	Turbocharged intercooled	Turbocharged intercooled	Turbocharged intercooled	Turbocharged intercooled	Turbocharged intercooled
6	6	6	6	6	6	6	8	8
220	220	370	370	575	575	575	575	575
ECO34-2L/4	ECO34-2L/4	ECO38-2S/4	ECO38-2L/4	ECO38-3L/4	ECO38-3L/4	ECO40-1S/4	ECO40-3S/4	ECO40-3S/4
3 ph	3 ph	3 ph	3 ph	3 ph	3 ph	3 ph	3 ph	3 ph
2.73x1.06x1.49	2.73x1.06x1.49	2.97x1.37x1.61	2.97x1.37x1.61	3.25x1.69x1.99	3.25x1.69x1.99	3.25x1.69x1.99	3.25x1.69x1.99	3.25x1.69x1.99
1398/1436	1555/1595	2409/2785	2639/3015	2863/3462	2988/3507	3095/3694	3837/4272	3837/4272
2.73x1.06x1.71	2.73x1.06x1.71	2.97x1.37x2.02	2.97x1.37x2.02	3.25x1.69x2.02	3.25x1.69x2.02	3.25x1.69x2.02	3.25x1.69x2.02	3.25x1.69x2.02
1641/1679	1798/1838	2741/3117	2971/3347	3273/3872	3308/3917	3505/4104	4247/4682	4247/4682
3.59x1.06x1.71	3.59x1.06x1.71	4.17x1.37x2.02	4.17x1.37x2.02	4.84x1.69x2.02	4.84x1.69x2.02	4.84x1.69x2.02	4.84x1.69x2.02	4.84x1.69x2.02
1856/1894	2013/2053	3097/3472	3326/3702	3873/4472	3908/4517	4105/4704	4847/5282	4847/5282
QIX 40	QIX 55	QIX 75	QIX 90	QIX 115	QIX 142			
60	60	60	60	60	60			
1800	1800	1800	1800	1800	1800			
0.8	0.8	0.8	0.8	0.8	0.8			
400/380/240	400/380/240	400/380/240	400/380/240	400/380/240	400/380/240			
240	-	-	-	-	-			
51.1/40.8	75/60	95.8/76.7	114.5/91.6	146.8/117.5	180.1/144.1			
45.9/36.8	68/54.4	86.2/69	103/82.4	132.1/105.7	162.1/129.7			
32.4/32.4	-	-	-	-	-			
32.4/32.4	-	-	-	-	-			
67	98	126	150	193	236			
135	-	-	-	-	-			
BF 4M 1011 F	BF 4M 2012	BF 4M 1013 E	BF 4M 1013 EC	BF 6M 1013 E	BF 6M 1013 EC			
46.2	66.4	84.7	101.2	126.7	153.8			
Oil	Water	Water	Water	Water	Water			
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical			
Turbocharged	Turbocharged	Turbocharged intercooled	Turbocharged	Turbocharged intercooled	Turbocharged			
4	4	4	4	6	6			
70	120	120	120	220	220			
ECO32-3S/4	ECO32-2L/4	ECO34-1S/4	ECO34-2S/4	ECO34-2L/4	ECO34-2L/4			
3 ph	3 ph	3 ph	3 ph	3 ph	3 ph			
1.80x0.87x0.96	2.28x1.06x1.24	2.28x1.06x1.24	2.28x1.06x1.24	2.73x1.06x1.49	2.73x1.06x1.49			
685/705	961/978	1131/1154	1200/1223	1398/1436	1555/1595			
1.80x0.87x1.27	2.28x1.06x1.27	2.28x1.06x1.27	2.28x1.06x1.27	2.73x1.06x1.71	2.73x1.06x1.71			
770/790	1181/1198	1351/1374	1421/1443	1641/1679	1798/1838			
1.80x0.87x1.27	3.13x1.06x1.71	3.13x1.06x1.71	3.13x1.06x1.71	35.9x1.06x1.71	35.9x1.06x1.71			
775/795	1396/1413	1566/1589	1636/1658	1856/1894	2013/2053			
2.30x0.87x1.73								
895/915								

All engines compliant with ISO3046, ISO8528-2 & TA LUFT 4000.

All alternators compliant with IEC34-1 & ISO8528-3.

All alternators IP23, class H insulation of stator & rotor, 3 phases, 12 wire connections, 300% overload for 20 seconds and voltage regulation of $\pm 1\%$.

Each QIX generator is factory configured at 400/230 V, 3 phase or 230 V single phase. Other voltage configurations are available upon request.

Atlas Copco QIX generators: at your service right around the world and just around the corner!

Purchasing an Atlas Copco QIX generator is about more than just the machine. As standard, it also includes the full support of a company committed to the generator business, worldwide.

From the outset, Atlas Copco can advise which QIX model and options best suit specific applications. Installation procedures can also be outlined. Selecting the right generator for the job has never been easier.

There is more. Atlas Copco customer support is an ongoing, long term commitment. The company has two thousand trained service technicians in over 150 countries worldwide. Should a problem ever occur, access to full factory expertise is only a visit, telephone call, fax or e-mail away. Advice on correct maintenance and service procedures, plus fast genuine parts support, are all in place to minimise downtime and reduce costs.

Maintenance needs of all generator models are constantly monitored so service intervals are closely matched to operating conditions. Optimum performance can be maintained to known budgets. Service kits are also available with all the replacement filters and ancillary parts included. These reduce the need to complete parts orders and ensure time expired components are replaced at each service for optimum performance.

Atlas Copco replacement parts meet or exceed original specifications: genuine parts provide the longevity and reliability that end users demand. Selected high quality Atlas Copco engine oil is also available. It meets the stringent quality specifications required to enable a QIX generator to run smoothly, shift after shift, day in and day out. Oils are available in 5, 20 and 210 litre containers.

Atlas Copco can also offer a choice of service contracts for the QIX generator range. Further information is available from your local supplier.

**Atlas Copco QIX generators,
for your peace of mind, night and day.**



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



www.atlascopco.com