

200kVA (K220Z2D) Zone 2 Generator

Based in Aberdeen, the oil capital of Europe, this Portable Power division can supply diesel driven generators for rental from 30kVA to 1500kVA. The generators are built to “rigsafe” specification, designed to work in the harsh offshore environment, either on oil platforms or wind turbines. These generators can also be used onshore in various industry sectors such as construction and entertainment.

The capital sales division can supply standard off the shelf generators or project specific custom built generators and offer the full spectrum of engineering from design, fabrication and assembly through to the FAT (Factory Acceptance Test).

The service division can provide a full health care package for diesel driven generators, comprising of installation, maintenance and repair of customer owned equipment.

Generators supplied for rental have the following features:

- Spark arrestor on engine exhaust outlet
- Chalwyn valve or Amot valve inline with engine
- Aspiration
- External emergency stop
- Platform interface for ESD start and stop
- (24Volt or 110Volt)
- Unit alarms and shutdown on:
 - Low oil pressure
 - High engine temperature
 - Over speed
- Lifting certificates for unit, slings and shackles (MPI and tested)

Optional fire detection, gas detection and extinguishing system. The generators can have a fire/gas detection system installed for certain applications:

- Heat detection
- Smoke detection
- Gas detection
- Fire/gas detection panel
- External controls and status indication
- Extinguishing system c/w internal and external pipework



Containerised Zone 2 200kVA generator



Rigsafe generators 30kVA up to 500kVA acoustic canopy c/w DNV shipping frame



Rigsafe generators 800kVA up to 1500kVA acoustic containers c/w 4 point DNV 2.7-1 lifting

The installation of a generator set must follow certain rules, which must be strictly adhered to in order to get the equipment to operate properly. Highly skilled generator engineers will carry out all works to ensure the safe installation and commissioning of your generator.

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Zone 2 diesel generator - container style			
Drive-unit	Diesel engine	Unit type	Diesel generator zone 2 3G IIB T3
Driven equipment	Alternator	Rated speed	1500/50 rpm/hz - 1800/60 rpm/hz
Duty	Prime power	Operation/maint. manual	Standard issue
Drive	Direct	Enclosure:	DNV 2.7-1 container
Cooling	Radiator	Lifting specification in accordance with	DNV 2.7-1
Unit is suitable for operating in	Zone 2 area	Noise attenuation	85 dBA within: 1 meter of skid enclosure.

Generator set ratings			
50 Hz prime power	167 kWe (208 kVA)	60 Hz prime power	175 kWe (218 kVA)
50 Hz standby power	179 kWe (223 kVA)	60 Hz standby power	188 kWe (235 kVA)
50 Hz continuous power	155 kWe (194 kVA)	60 Hz continuous power	164 kWe (205 kVA)

Engine			
Manufacturer	Deutz	Stroke	130mm
Engine type	TCD2013L06 4V	Classification	ISO 8528/1, ISO 3046/1, BS 5514/1
Aspiration	Turbocharged and jacket water after-cooled	50 Hz gross power	238.2 kWm
Cylinders	6 in Line	60 Hz gross power	247.4 kWm
Disp.	7.1L	Compression ratio	17.0
Bore	108mm	Maximum allowable speed	2000

Alternator			
Manufacturer	Marathon	50 Hz standby power	250kVA @ 415v 0.8 pf
Type	432RDL4994	60 Hz standby power	250KVA @ 440v 0.8 pf
Volts	380-440V @ 50Hz	Transient reactance	X`d 0.128
Volts	420 - 480V @ 60Hz	Sub-transient reactance	T`d 0.085
50 Hz continuous power	250kVA @ 415v 0.8 pf	Start system	Electric: 24vDC / Batteries: 2 x 12vDC
60 Hz continuous power	250KVA @ 440v 0.8 pf	Rating	50 Amp/Hr

Instrumentation and controls			
Instrument panel	• Service hour meter	• Emergency stop	-
Gauges	• Water temperature	• Oil pressure	• Speed indicator
Controls	• Off/manual (local)	• E.S.D. interface	-
Safety systems	• High engine temperature	• High exhaust temprature	• Low oil pressure
Control system	• Manufacturer: JCE	• Type: Exd control system	-
Operation modes	• Manual	-	-
Output	• M.C.C.B ABB T5N	• 4 pole 400Amp	• Protection - long-time/short-time

Dimensions/weights			
Containerised gen-set dimensions L x W x H	5610 x 2710 x 3003	Containerised gen-set weights	11,602 kgs full of fuel 11,000 kgs empty

Capacities/operation/service			
Oil	24 Lts		
Coolant	206Lts		
Fuel tank cap	759 Lts (12hrs @ 100% load)		
Fuel usage	50Hz - 16.3 Lts / hour @ 100% duty	60Hz - 16.3 Lts / hour @ 100% duty	
	50Hz - 17.04 Lts / hour @ 75% duty	60Hz - 17.7 Lts / hour @75% duty	
	50Hz - 17.7 Lts / hour @ 50% duty	60Hz -18.1 Lts / hour @ 50% duty	
	50Hz - 19.09 Lts / hour @ 25% duty	60Hz - 19.3 Lts / hour @ 25% duty	
Service Intervals - Type (A) oil and filter change	400 Hrs		
Service Intervals - Type (B) Type A-service plus injector and tappet inspection/change	2,500 Hrs		

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