

## RICARDO

### Technical Specifications



#### ENGINE

- RICARDO series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled /turbocharged & air to water charge cooled
- Direct injection
- Electronic governor system
- 24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

#### QUALITY STANDARD

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, TS ISO 8528, TS EN ISO 3744, TS EN ISO 3746, TS EN 60034-1, TS EN 60204-1, TS EN 60335-1, TS EN 61439-1,

EN 61000, TS EN ISO12100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO10002:2006 management system certificates from Kiwa & MEYER, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

#### ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid.

#### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter
- PMG warning system

#### CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

#### AUTOMATIC CONTROL PANEL

- LCD display screen
- Hardware and materials needed
- Battery charger
- USB port & RS-485 output

#### GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Over current load
- Low oil pressure
- High & low genset voltage
- High & low engine speed
- Start/stop failure
- Low radiator water level



Easy maintenance canopy design



Refilling from the outside of the canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



# RICARDO Series

## Diesel Generator Sets

### RICARDO Series Diesel Generator Sets 150-200 kVA

MODEL				E RC XX 0150	E RC XX 0165	E RC XX 0200
GROUP	GEN-SET POWER	STAND BY	kVA	150	165	200
			kW	120	132	160
		PRIME	kVA	136	150	180
			kW	108,8	120	144
	CANOPY DIMENSION (W x L x H) mm			1100x3050x1690	1100x3100x1690	1100x3220x1690
	CANOPY WEIGHT kg			1887	2005	2139
	OPEN DIMENSION (W x L x H) mm			1100x2600x1690	1100x2600x1690	1100x2770x1690
	OPEN WEIGHT			1634	1752	1884
ENGINE	BRAND			RICARDO	RICARDO	RICARDO
	TYPE			R6105AZLDS	R6105BZLDS	R6110ZLDS
	POWER	STAND BY	kW	134	147	172
			PRIME	kW	121	132
	SPEED (rpm)			1500	1500	1500
	CYCLE			4	4	4
	DISPLACEMENT (lt)			6,75	7,01	7,69
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			105x130	105x135	110x135
	COMPRESSION RATIO			17 : 1	17 : 1	17 : 1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		31,0	33,9	39,8
		%75 PRIME POWER		23,3	25,4	29,8
		%50 PRIME POWER		15,5	16,9	19,9
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			17	17	17	
TOTAL COOLANT CAPACITY (lt)			23	23	23	
FUEL TANK CAPACITY (lt)			275	275	275	

Emsa reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.