

## RICARDO 35-94 kVA

### Technical Specifications



#### ENGINE

- RICARDO series heavy duty diesel engine
- 4 cycle, water cooled, natural / turbocharged
- Direct injection
- Mechanic / electronic governor system
- 12/24 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 gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are CE certified in accordance with the requirements of 2000/14/EC, noise emission directive.

#### 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

#### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 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

#### 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
- Battery charger
- Hardware and materials needed
- USB port & RS-485 output

#### GEN-SET SAFETY PROTECTION & ALARMS

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



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 35-94 kVA

MODEL			E RC XX 0035	E RC XX 0050	E RC XX 0070	E RC XX 0082	E RC XX 0094	
GROUP	GEN - SET POWER	STAND BY	kVA	35	50	70	82	94
			kW	28	40	56	65,6	75
		PRIME	kVA	32	45	65	75	85
			kW	25,5	36,4	52,0	60,0	68
	CANOPY DIMENSION (W x L x H) mm			1000 x 2450 x 1615	1000 x 2450 x 1615	1000 x 2880 x 1625	1000 x 2880 x 1625	1000 x 2880 x 1625
	CANOPY WEIGHT kg			1015	1045	1235	1235	1235
	OPEN DIMENSION (W x L x H) mm			1000 x 2050 x 1550	1000 x 2050 x 1550	1000 x 2400 x 1480	1000 x 2400 x 1480	1000 x 2400 x 1480
	OPEN WEIGHT kg			875	905	1030	1030	1030
ENGINE	BRAND			RICARDO	RICARDO	RICARDO	RICARDO	RICARDO
	TYPE			K4100D	K4100ZD	R4105ZD	R4105ZD	4105ZD
	POWER	STAND BY	kW	33	45	73	73	85
		PRIME	kW	30	41	66	66	78
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			3,61	3,61	4,33	4,33	4,33
	NUMBER OF CYLINDERS			4 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE
	BORE AND STROKE (mm x mm)			100 x 115	100 x 115	105 x 125	105 x 125	105 x 125
	COMPRESSION RATIO			19:1	19:1	16:1	16:1	17:1
	GOVERNOR TYPE			MECHANIC / ELECTRONIC				
	INDUCTION			NATURAL	TURBOCHARGED			
	COMBUSTION SYSTEM			DIRECT INJECTION				
	COOLING SYSTEM			WATER				
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		8,56	11,79	15,31	18,01	20,2
		75% OF PRIME POWER		6,42	8,84	11,48	13,51	15,6
50% OF PRIME POWER		4,28	5,89	7,66	9,00	10		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			14	14	16	16	16	
TOTAL COOLANT CAPACITY (lt)			18	18	25	25	25	
FUEL TANK CAPACITY (lt)			132	132	180	180	180	

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