



## 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 90- 100 - 110 - 125kVA

MODEL				ARJ 0090	ARJ 0100	ARJ- 0110-6	ARJ - 0125
GROUP	GEN-SET POWER	STAND BY	kVA	90	100	110	125
			kW	72	80	88	100
		PRIME	kVA	81,8	91	100	114
			kW	65,5	72,8	80	91,2
	CANOPY DIMESNION (W x L x H) mm			1000x2600x1410	1000x2600x1510	1100x3050x1690	1100x3050x1690
	CANOPY WEIGHT kg			1245	1363	1883	1883
	OPEN DIMENSION (W x L x H) mm			1000x2200x1410	1000x2200x1510	1100x2600x1690	1100x2600x1690
	OPEN WEIGHT			1048	1085	1630	1630
ENGINE	BRAND			RICARDO	RICARDO	RICARDO	RICARDO
	TYPE			N4105ZLDS	R4105BZLD	R6105ZD	R6105ZLDS
	POWER	STAND BY	kW	73	79	93	111
		PRIME	kW	66	72	84	100
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (lt)			4,15	4,67	6,49	6,49
	NUMBER OF CYLNDERS			4 IN LINE	4 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			105×120	105×135	105×125	105×125
	COMPRESSION RATIO			17 : 1	17 : 1	17 : 1	17 : 1
	GOVERNOR TYPE			MECHANIC	MECHANIC	MECHANIC	MECHANIC
	INDUCTION			TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		17,5	20,2	22,2	25,6
		%75 PRIME POWER		13,1	15,7	16,7	19,2
		%50 PRIME POWER		8,7	10,1	11,1	12,8
	TOTAL LUBRICATION SYSTEM CAPACITY (lt)			13	16	17	17
	TOTAL COOLANT CAPACITY (lt)			13	16	23	23
	FUEL TANK CAPACITY (lt)			139	210	275	275

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

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