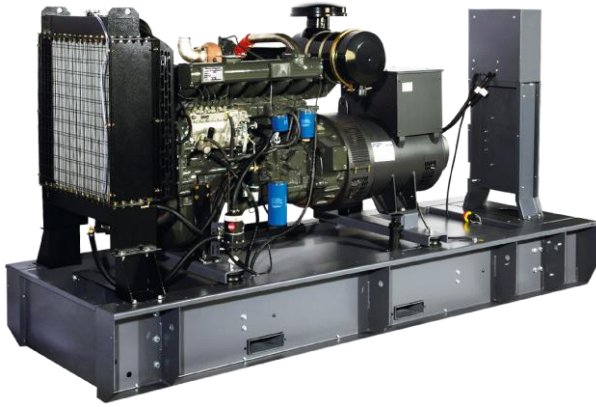




RICARDO

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 12-16 - 22 - 28 kVA

MODEL				ARJ 012	ARJ 016	ARJ 022	ARJ 028
GROUP	GEN-SET POWER	STAND BY	kVA	12	16	22	25
			kW	9,6	12,8	17,6	20
		PRIME	kVA	110,9	114,5	20	22,7
			kW	8,7	11,6	16	18,2
	CANOPY DIMENSION (W x L x H) mm			900x2200x1350	900x2200x1350	900x2200x1350	900x2200x1350
	CANOPY WEIGHT kg			820	875	900	935
	OPEN DIMENSION (W x L x H) mm			900x2200x1200	900x2200x1200	900x2200x1200	900x2200x1200
	OPEN WEIGHT			650	700	725	760
ENGINE	BRAND			RICARDO	RICARDO	RICARDO	RICARDO
	TYPE			R41000	R41000	R41000	R41000
	POWER	STAND BY	kW	33	33	33	33
		PRIME	kW	30	30	30	30
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (lt)			3,61	3,61	3,61	3,61
	NUMBER OF CYLINDERS			4 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE
	BORE x STROKE (mm x mm)			100x115	100x115	100x115	100x115
	COMPRESSION RATIO			19 : 1	19 : 1	19 : 1	19 : 1
	ALTERNATOR BRAND			ARMMAK	ARMMAK	ARMMAK	ARMMAK
	MODEL			ARA - 12	ARA - 16	ARA - 22	ARA - 25
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		4	5	5,9	6,2
		%75 PRIME POWER		3	3,7	4,1	4,4
%50 PRIME POWER		2	2,6	3	3,2		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			13	13	13	13	
TOTAL COOLANT CAPACITY (lt)			13	13	13	13	
FUEL TANK CAPACITY (lt)			101	101	101	101	

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

Armak Makine Mühendislik İnş. San. ve Tic. Ltd. Şti.

Denizköşkler Mah. Tunay Sk. No:28
Avcılar / İSTANBUL / TURKEY

T: 0212 694 66 66

F: 0212 593 09 60

armakmakine@armakmakine.com

www.armakmakine.com