

KD490Q POWER UNIT

TECHNICAL DATASHEET

Production Tolerance : $\pm 5\%$

Stand-By (Maximum) Rating	Max.Torque	Fuel Consumption
37 kW (50 HP) / 3000 rpm	132 N.m	247 g/kW.h / 3000 rpm

Note : All datas are according to DIN6270B

MECHANICAL SYSTEM

Manufacturer	Kansas Diesel / China
Engine Model	KD490Q
Type	4 cycle , Diesel , Naturally aspirated
Combustion Type	Direct Injection
Firing Order	1-3-4-2
Cylinder Number	Inline 4 cyl
Bore x Stroke	90 x 95 mm
Displacement	2,54 lt
Compression Ratio	18
Dry Weight	210 kg
Dimensions LxWxH	736x532x708 mm

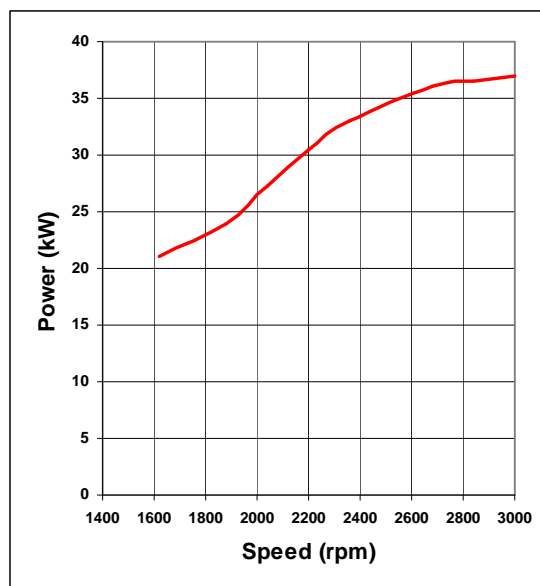
FUEL SYSTEM

Injection Pump	I or BQ type
Governor Type	Mechanical
Fuel Selenoid	Energized to Stop
Fuel Filter	Full flow, cartridge type
Fuel Delivery	Single Act-Piston type
Fuel	Diesel Fuel (EN590)

COOLING SYSTEM

Cooling Type	Water Cooled
Cooling Method	Forced Circulation
Water Capacity	8,5 lt without radiator
Water Flow rate	220 lt/min
Water Pump	Centrifugal type driven by belt

PERFORMANCE CURVE



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LUBRICATION SYSTEM

Oil Pump Type	Rotor
Oil Filter	Full Flow cartridge
Oil Capacity	14 lt
Recommended Oil	CD/CE/CF 10W/40 grade semi-synthetic or synthetic
Oil Pressure	400 kPA (warm engine at 3000 rpm)

ELECTRICAL SYSTEM

Charging Alternator	14 V , 350 W
Starting Motor	12 V , 2,5 kW
Battery Voltage	12 V
Capacity (Recommended)	60 Ah

OPTIONS

- (EWI) Engine Wiring
- (CPA) Basic Start Panel
- (CHE) Coolant Heater
- (ESI2) Residential type Silencer
- (BAT) Battery , cables & rack
- (BFR1) Baseframe Std.c/w fuel tank
- (BFR2) Extended Baseframe c/w fuel tank
- (NFP) Conformity kit to NFPA-20 standards
- (HEX) Heat Exchanger Kit with pipeline
- (CPL) Coupling with its guard
- (TBX) Tool Kit

UNIT CONVERSION

- HP = kW x 1,3596
- Torque (N.m) = 9549,3 x P(kW) / N(1/min)
- Torque (kg.m) = 716,2 x P(HP) / N(1/min)
- 1 Bar = 1,019726 kg/cm² = 100 kPA
- 1 kW = 0,2388 kcal/s

IDEA

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