

# 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

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

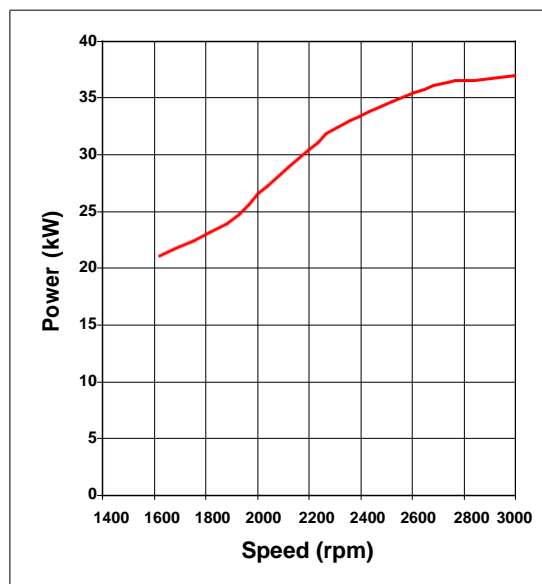
### FUEL SYSTEM

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

### COOLING SYSTEM

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

### PERFORMANCE CURVE



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### LUBRICATION SYSTEM

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

### ELECTRICAL SYSTEM

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

### 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/cm<sup>2</sup> = 100 kPA 1 kW  
= 0,2388 kcal/s

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