

DIESEL ENGINE

KDP SERIES FOR FIRE PUMP

Model: 4KDP-30

Prime power
Standby Power

Fuel System

Governor

Feed pump

Fuel filter

Injection pump

Injection nozzle

Opening pressure

30.0KW(40HP)/3000 rpm 33.0KW(44HP)/3000 rpm

Direct Injection type

Multi-hole type/ 0.245 mm

Mechanicaltype

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Single Stage, Paper

20+0.5MPa

Engine Specifications

In-Line, 4 stroke, water-cooled, Natural Aspiration

Combustion type Direct injection
Cylinders - Bore × stroke 4 - 85 ×95 mm

Displacement 2157 cc Firing order 1-3-4-2

Compression ratio 22:1

Dry weight Approx. 220 kg

Dimension(LxWxH) $750 \times 500 \times 650$ mm Rotation Anti-clockwise Flywheel / Housing SAE # 7.5 / # 4 Fuel Consumption

Prime power at 3000rpm 8.0 liters/h Standby Power at 3000rpm 8.8 liters/h

Cooling System

Cooling method Fresh water forced type

Water pump Centrifugal, Belt driven

Max. water Temp 95 degree C.

Cooling Fan Blade 7EA - Ø 410 mm

Lubrication System

Lub. Oil Pan Capacity 5.5 liters

Max. allowable Oil Temp 110 degree C.

Min. 294 kPa

in. = $mm \times 0.0394$

Oil pressure Max. 490 kPa

Intake & Exhaust System

Max air restriction Clean 2 kPa / Dirty 5 kPa

Exhaust back Max 6 kPa

Engineering Data

Combustion Air 1.60m3/min Exhaust Gas 3.90m3/min

Electric System

Charging generator $13.5 \text{ V} \times 36 \text{ A}$ Starting motor $12 \text{ V} \times 3.7 \text{ kW}$

Battery 12 Vx 120 Ah

Conversion Table $PS = kW \times 1.3596$

psi = kg/cm2 × 14.2233

HP= PS x 0.98635

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