Kohler® Diesel

Model KDW2204T High Speed Open Power Unit

4 Cylinders » 2199 cc » 33.0 kW/44.3 HP » 3000 RPM » 140.1 ft. lbs. @1800 RPM

Certification

EPA TIER 3 ■ 97/68/CE Step 2 ● ECE R24-03 ▲

Features

4-Stroke Diesel Engine
Liquid-Cooled with Axial Fan
Indirect Fuel Injection
Water-Oil Heat Exchanger
Turbocharger Mitsubishi TD 025L
Double PTO on the Crankshaft
Counter-Clockwise Rotation (PTO Side)
Full-Pressure Lubrication
Automatic Extra Fuel Starting Device
Full-Flow Oil Filter

Torque Device

Variable Speed Governor
Cast-Iron Engine Block with Re-Borable Cylinders

Cast-Iron Cylinder Head Hydraulic Valve Lifters

Applications

Fork Lift
Excavator
Generator
Compressor
Sweeper
Tractor



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Specifications		
Cylinders	No. of Cylinders	4
Displacement	cc/cu. in.	2199/134.2
Bore	mm/in.	88/3.5
Stroke	mm/in.	90.4/3.6
Compression Ratio		22.8:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	48.0/64.4
	NB ISO 3046 IFN	44.3/59.4
	NA ISO 3046 ICXN	40.8/54.7
Max. Torque	N·m/ft. lbs. @ 1800 RPM	190/140.1
Max. Torque 3 P.T.O.	N·m/ft. lbs. @ 3000 RPM	39.2/29
Minimum Idling Speed R.P.M.		900
Water Pump Delivery @ 3000 RPM	liters/min/gpm	128/34
Oil Consumption	kph/lbh	0.032/0.071
Oil Capacity		
with Dynamic Horizontal Stabilizer	liters/quarts	4.5/4.8
without Dynamic Horizontal Stabilizer	liters/quarts	5.7/6.0
Max. Allowable Angle of Operation (Peak Values)		25° (35°)
Volume of Air Required for Correct Combustion @ 3000 R.P.M.	liters/min/cfm	4200/148
Volume of Air Required for Correct Cooling @ 3000 R.P.M.	m³/min/cfm	180/6357
Dry Weight	kg/lbs	219/482.8
Recommended Battery	V/Ah	12/88
Minimum Pulley Diameters for Belt Drive		

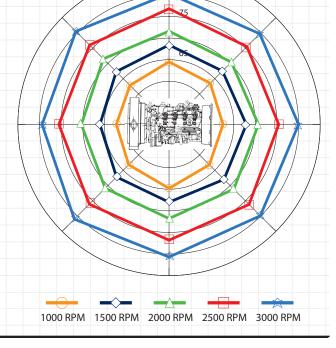
Sound Pressure Level dB (A) Sound Pressure Level Polar Diagram Open Field at 7 Meters -

No Load Running Engine.

V Belt $D_{(mm)} \ge 73 [L_1 + 118] N (kW)$ Cogged $D_{(mm)} \ge 46 [L_2 + 118] N (kW)$ Belt n (RPM)

Maximum Allowable Axial Load in Both Directions A-B = 300 kg/661 lbs.

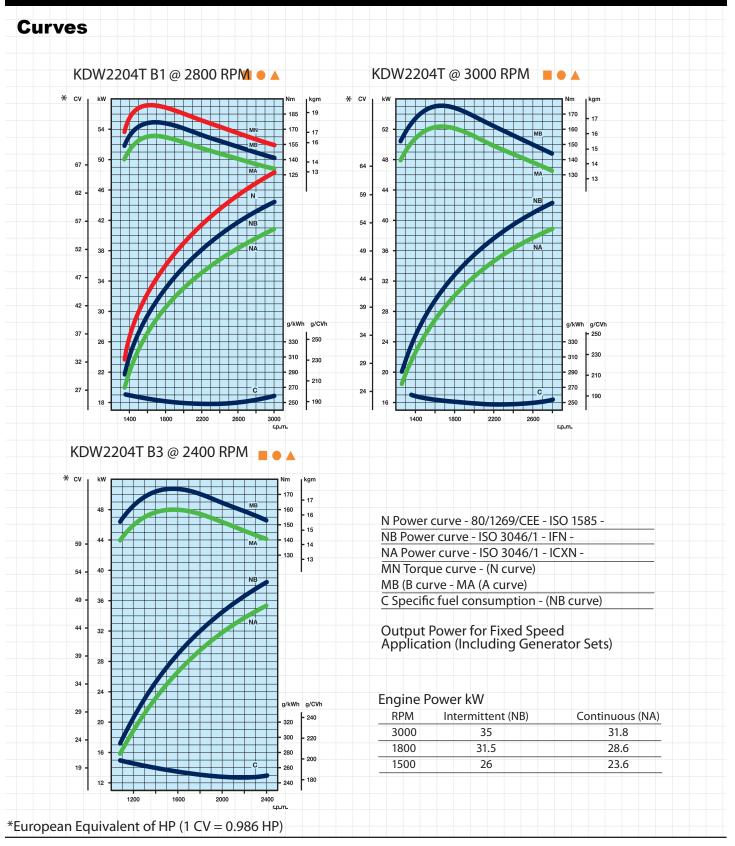
C - Allowable Zone for Radial Load



dB (A)

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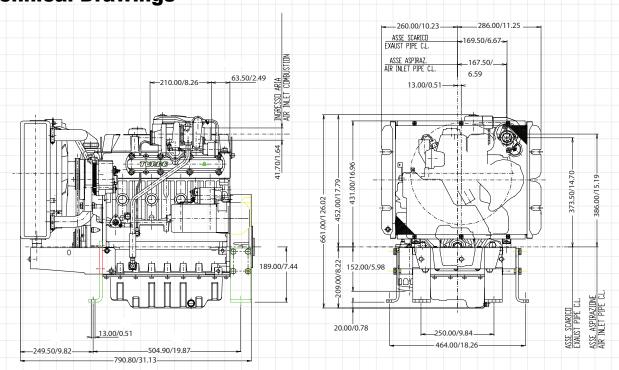
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Technical Drawings



Standard Equipment (Open Power Unit)

Base Engine Mounted Top Tank Radiator Radiator Fan Guard Suction Fan Mounted Air Cleaner Muffler and Guard 12 V Electric Starter 45 Amp External Alternator Fuel Filter with Valve **Mounting Feet** Mounted Control Panel Group 5 Interchange Housing 3000 RPM Safety Shutdown Low Oil Pressure and High Coolant Temperature

Accessories

Optional Charging Systems SAE Housings and Drives Shaft Extensions Hydraulic Drives Dry Air Cleaners Various Mufflers and Manifolds Various Muffler Guards and Flanges Remote Oil Filter Top Tank and Cross-Flow Radiators Suction & Pusher Fans High-Capacity Oil Sump 2nd PTO Two-Groove Pulley Wiring Harness Extension **Extended Dipstick**



