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

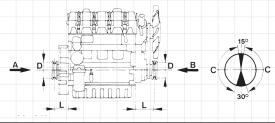
Fork Lift
Excavator
Generator
Compressor
Sweeper
Tractor



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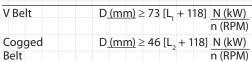
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Specifications		
Cylinders	No. of Cylinders	4
Displacement	cc/cu. in.	2199/134.2
Bore	mm/in.	88/3.5
Stroke	mm/in.	90.4/3.6
Compression Ratio		22.8:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	48.0/64.4
	NB ISO 3046 IFN	44.3/59.4
	NA ISO 3046 ICXN	40.8/54.7
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		



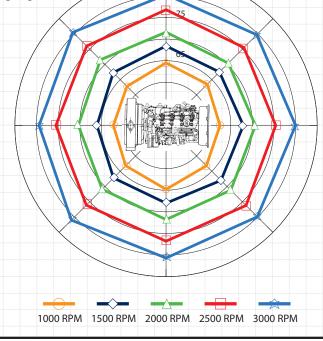
Sound Pressure Level dB (A) Sound Pressure Level Polar Diagram

Open Field at 7 Meters -No Load Running Engine.



Maximum Allowable Axial Load in Both $\overline{\text{Directio}}$ ns A-B = 300 kg/661 lbs.

C - Allowable Zone for Radial Load

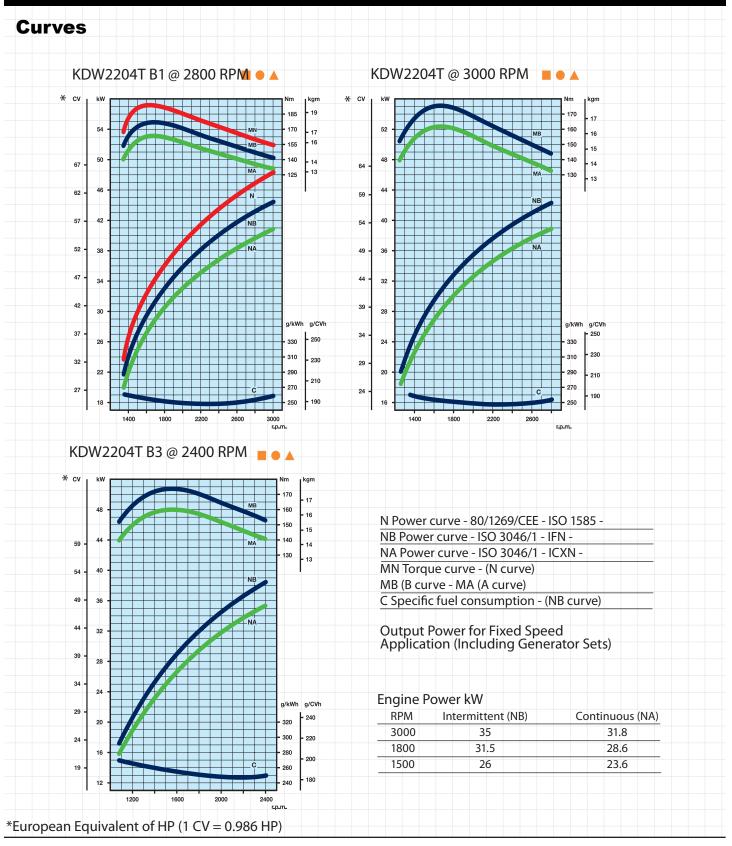


dB (A)

85

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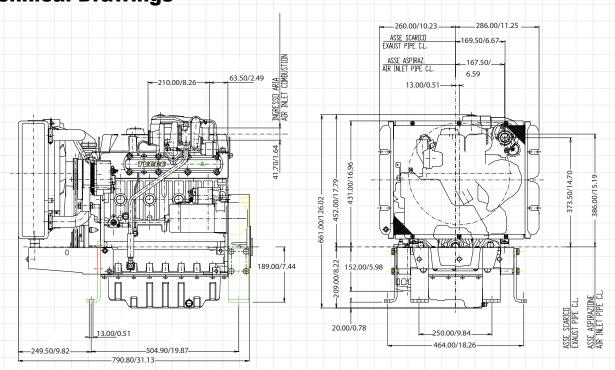
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Standard Equipment (Open Power Unit)

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**



