Kohler® Diesel Model KDW702

High Speed Open Power Unit

2 Cylinders » 686 cc » 12.5 kW/16.8 HP » 3600 RPM » 29.9 ft. lbs @ 2000 RPM

Certification

EPA TIER 4

Features

4-Stroke Diesel Engine with In-Line Cylinders Liquid-Cooled with Axial Fan Overhead Camshaft Indirect Fuel Injection by Unit Injectors Double PTO on Crankshaft Counter-Clockwise Rotation (From PTO Side) **Full-Pressure Lubrication** Full Flow Oil Filter Water Pump Driven by Timing Belt

Automatic Extra Fuel Starting Device Variable Speed Governor

Cast-Iron Crankcase with Re-Borable Cylinders

Aluminum Cylinder Head

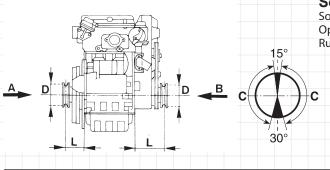
Applications

Excavator Generator Refrigeration Unit Sweeper **Access Platform** Roller **Power Buggy ATV APU**



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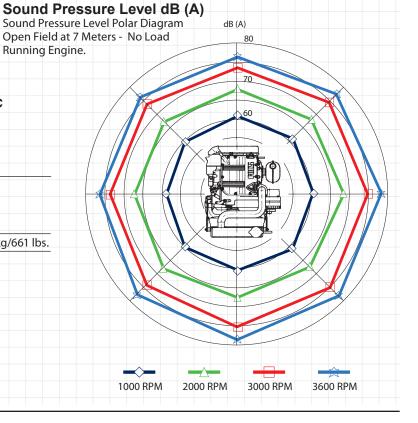
Specifications		
Cylinders	No. of Cylinders	2
Displacement	cc/cu. in.	686/41.9
Bore	mm/in.	75/3
Stroke	mm/in.	77.6/3.1
Compression Ratio		22.8:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	12.5/16.8
	NB ISO 3046 IFN	11.7/15.7
	NA ISO 3046 ICXN	10.7/14.3
Max. Torque	N·m/ft. lbs. @ 2000 RPM	40.5/29.9
Max. Torque 3 PTO	N·m/ft. lbs.	37/27
Minimum Idling Speed RPM		900
Water Pump Delivery @ 3600 RPM	liters/min/gpm	40/11 (~)
Oil Consumption	kgh/lbh	0.009/0.020
Oil Capacity	liters/quarts	1.6/1.7
Min. Allowable Oil Pressure	bar/psi	1.5/21.8
Max. Allowable Angle of Operation (Peak Values)		25° (35°)
Volume of Air Required for Correct Combustion @ 3600 RPM	liters/min/cfm	1240/44
Volume of Air Required for Correct Cooling @ 3600 RPM	m³/min/cfm	43/1519
Dry Weight	kg/lbs	104/229.3
Battery	V/Ah	12/44
Minimum Pulley Diameters for Belt Drive		



V Belt $D (mm) \ge 143 [L (mm) + 101] N (kW)$ n (RPM) Cogged D (mm) \geq 99 [L (mm) + 101] N (kW) Belt n (RPM)

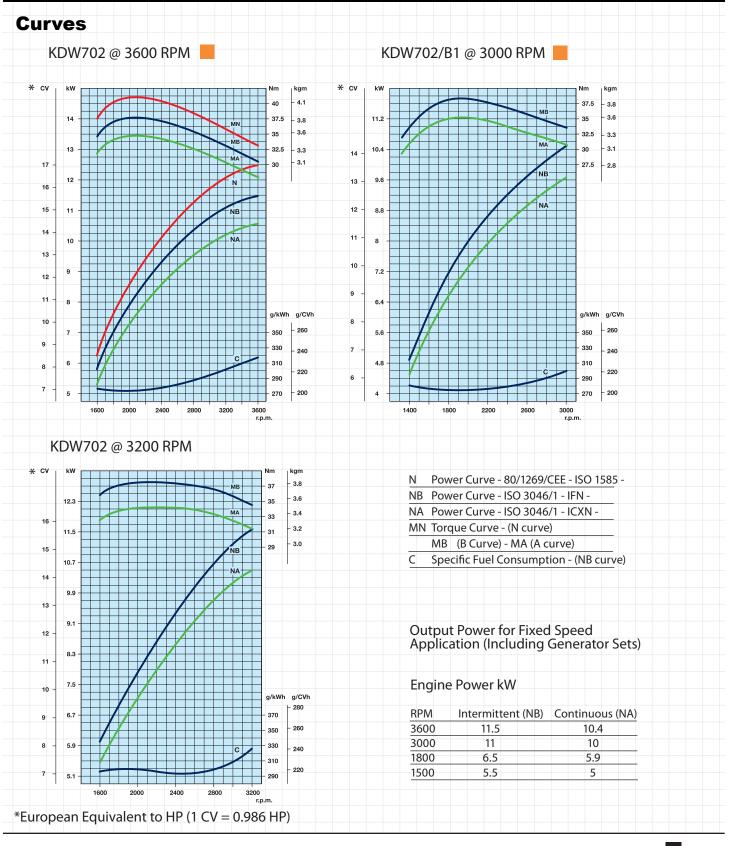
Maximum Allowable Axial Load in Both Directions A-B = 300 kg/661 lbs.

C - Allowable Zone for Radial Load



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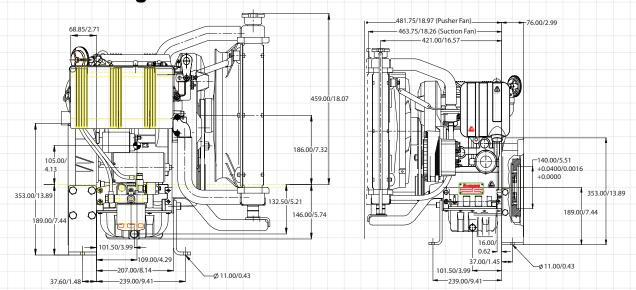
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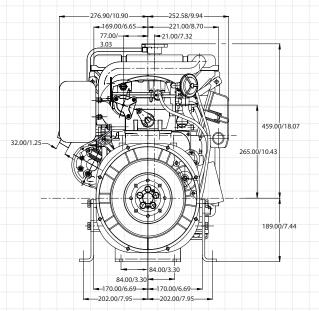
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Technical Drawings



Standard Features (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 8 Interchange Housing
Safety Shutdown for Low Oil Pressure
and High Coolant Temperature
3600 RPM



Accessories

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 and Pusher Fans
High-Capacity Oil Sump
Wiring Harness Extension
2nd PTO Two-Groove Pulley





Extended Dipstick