Kohler® Diesel
Model KDW1404
High Speed Open Power Unit

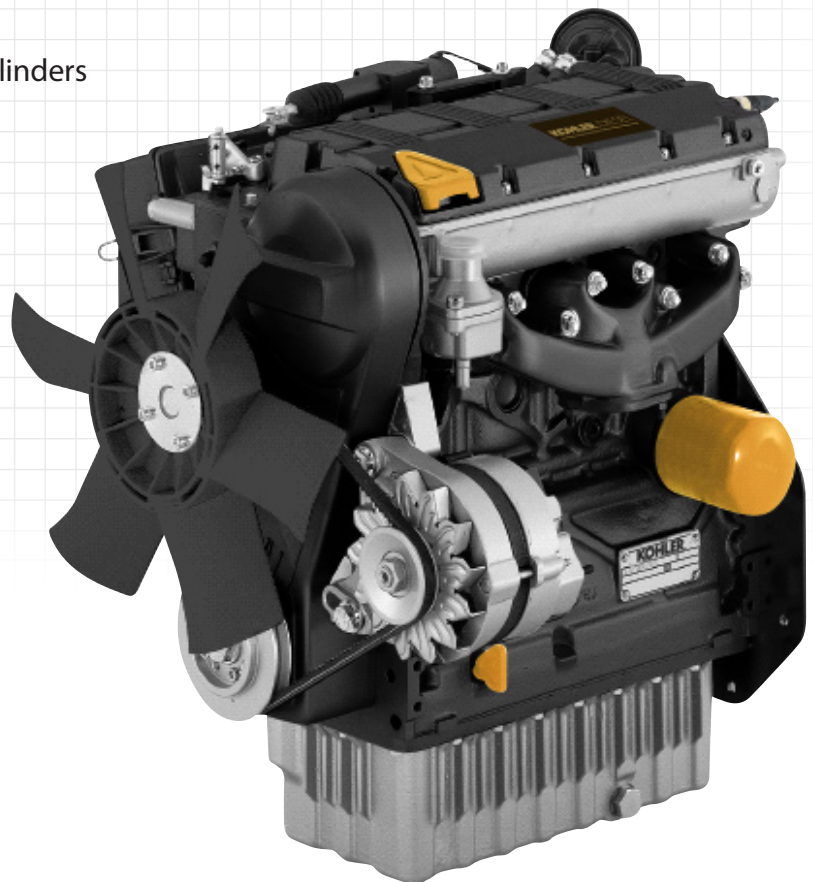**4 Cylinders » 1372 cc » 26 kW/34.9 HP » 3600 RPM » 62 ft. lbs. @ 2000 RPM**

Certification
EPA Interim TIER 4 ■
97/68/CE ●

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
Power Buggy
Roller
Access Platform
Generator
Sweeper
Lawn Mower
Ride-On Concrete Trowel

**KOHLER®** | Relentless Power.
Legendary Performance.

Specifications

Cylinders	No. of Cylinders	4
Displacement	cc/cu. in.	1372/83.7
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	26/34.9
	NB ISO 3046 IFN	24.5/32.9
	NA ISO 3046 ICXN	22.4/30
Max. Torque	N·m/ft. lbs. @ 2000 RPM	84/62
Max. Torque 3 PTO	N·m/ft. lbs.	37/27
Minimum Idling Speed RPM		900
Water Pump Delivery @ 3600 RPM	liters/min/gpm	70/18 (~)
Oil Consumption	kgh/lbh	0.019/0.042
Oil Capacity	liters/quarts	3.3/3.5
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	2470/87
Volume of Air Required for Correct Cooling @ 3600 RPM	m³/min/cfm	88/3108
Dry Weight	kg/lbs	140/308.6
Recommended Battery	V/Ah	12/44

Minimum Pulley Diameters for Belt Drive

15°

30°

A D   D B

C — C
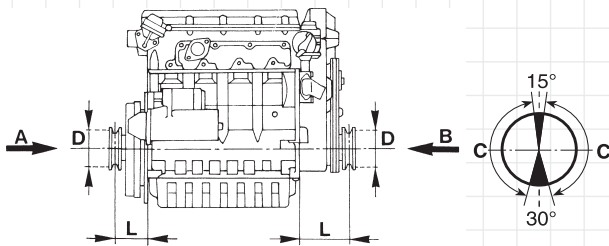
V Belt	D (mm) ≥ 110 [L (mm) + 101]	$\dfrac{N\ (kW)}{n\ (RPM)}$
Cogged Belt	D (mm) ≥ 72 [L (mm) + 101]	$\dfrac{N\ (kW)}{n\ (RPM)}$

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

C - Allowable Zone for Radial Load

Sound Pressure Level dB (A)

Sound Pressure Level Polar Diagram
Open Field at 7 Meters - No Load
Running Engine.

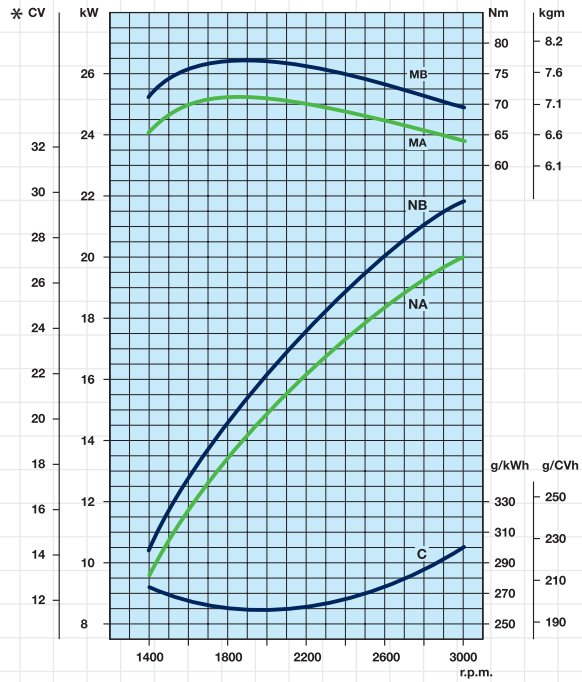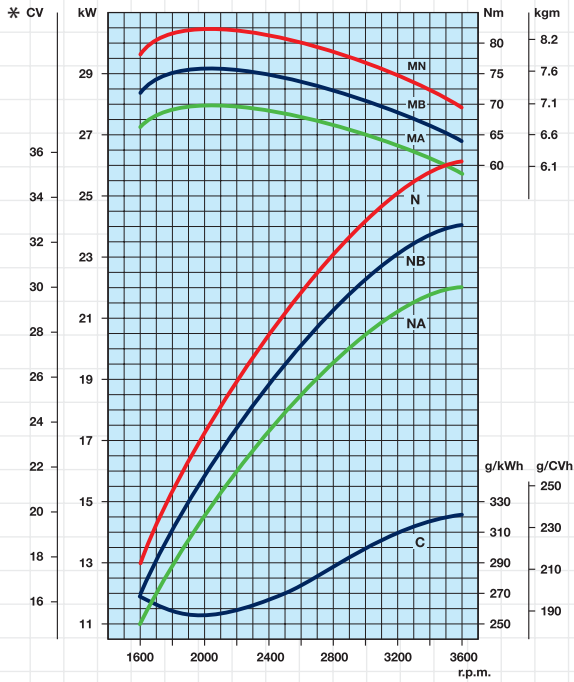dB (A)
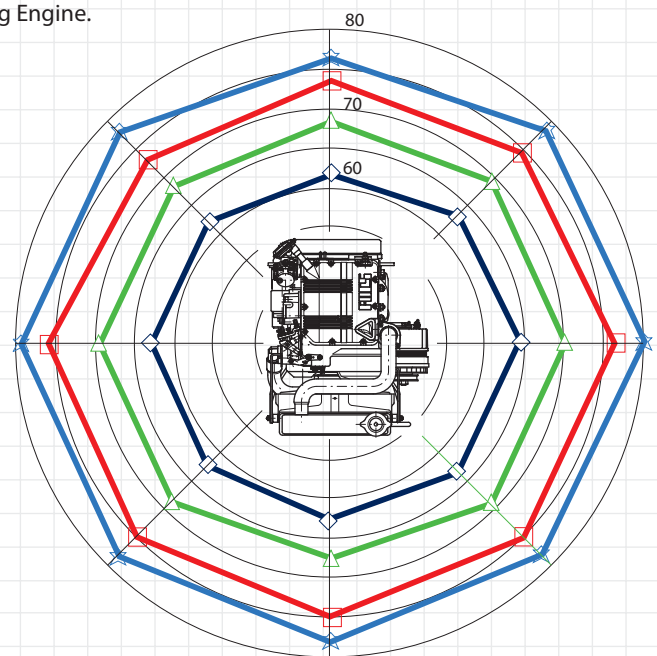
| 1000 RPM | 2000 RPM | 3000 RPM | 3600 RPM |

Curves

KDW1404 @ 3600 RPM ■ ●

KDW1404 B1 @ 3000 RPM ■ ●

KDW1404 B6 @ 2500 RPM ■ ●
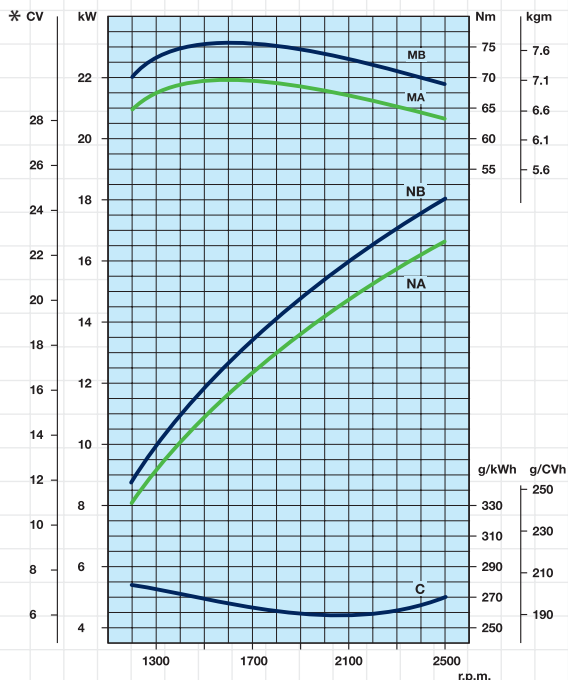
N	Power Curve - 80/1269/CEE - ISO 1585 -
NB	Power Curve - ISO 3046/1 - IFN -
NA	Power Curve - ISO 3046/1 - ICXN -
MN	Torque Curve - (N curve)
	MB (B Curve) - MA (A curve)
C	Specific Fuel Consumption - (NB curve)

Output Power for Fixed Speed Application (Including Generator Sets)

Engine Power kW

RPM	Intermittent (NB)	Continuous (NA)
3600	24	21.8
3000	22	20
1800	13.5	12.3
1500	11.5	10.5

*European Equivalent of HP (1 CV = 0.986 HP)

Technical Drawings
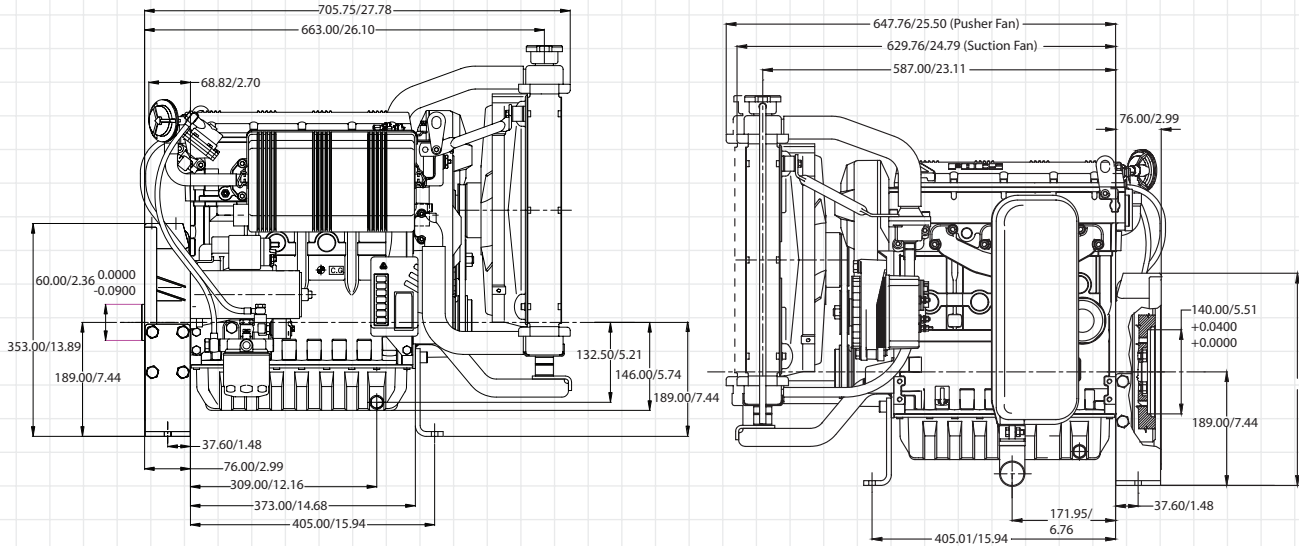
Standard Features (Open Power Unit)

Base Engine
Mounted Top Tank Radiator
Radiator Fan Guard
Suction Fan
Mounted Air Cleaner
Muffler and Guard
12 V Electric Starter
Fuel Filter with Valve
45 Amp External Alternator
Mounting Feet
Mounted Control Panel
Group 8 Interchange Housing
3600 RPM
Safety Shutdown for Low Oil Pressure
    and High Coolant Temperature

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

KOHLER®