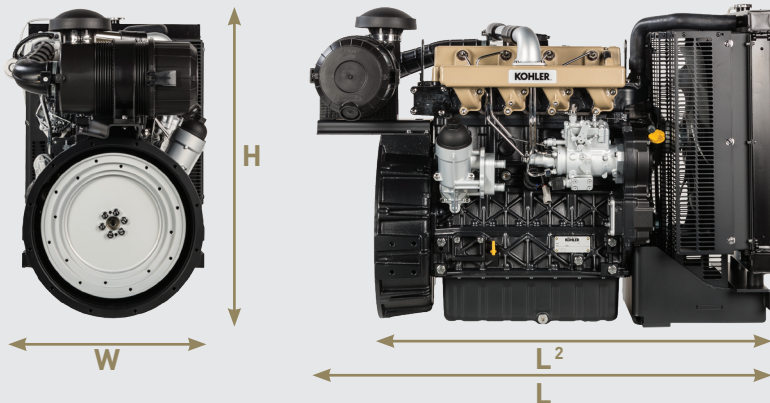


KOHLER® Diesel KDI

Genset Power Unit



- » Fitting the smallest canopy ever in its power range
- » Best power density
- » Lowest fuel consumption
- » Minimum 500 hours oil change interval
- » The most environmentally friendly
- » Best comfort (low vibration & noise)
- » High reliability

STANDARD EQUIPMENT

Blowing fan
Fan guard
Radiator
Air cleaner

TECHNICAL DATA

Engine type	KDI1903M	KDI2504M	KDI2504TM	KDI3404TM	KDI3404TM CAC
n. of cilinder	3	4	4	4	4
Air intake	NATURAL	NATURAL	TURBO	TURBO	TURBO + CHARGE AFTER COOLER
Bore (mm)	88	88	88	96	96
Stroke (mm)	102	102	102	116	116
Engine displ. (cm³)	1861	2482	2482	3359	3359
Total lubrication system capacity (l)	8,9	11,5	11,5	15,6	15,6
Total coolant capacity (l)	6,8	7,6	7,7	8	7,7
Weight (incl. cooling syst.) (kg)	235	270	290	470	N/A
Governing standard	G2	G2	G2	G2	G2
Flywheel and housing	SAE 4/7" 1/2	SAE 4/7" 1/2	SAE 3/11" 1/2	SAE 3/11" 1/2	SAE 3/11" 1/2
DIMENSIONS					
L - Length (mm)	897	1003	1100	1250	1250
L² - Length w/o air filter (mm)	720	826	933	1053	1053
H - Height (mm)	761	761	771	954	954
W - Width (mm)	528	528	583	713	713

50 Hz @1500 rpm

POWER	KDI1903M	KDI2504M	KDI2504TM-30	KDI2504TM-40 EU	KDI2504TM-40	KDI3404TM	KDI3404TM CAC
Stand-by Power (kW/HP)*	19,0 / 25,5	25,4 / 34,0	31,0 / 41,5	36,4 / 48,8	41,0 / 54,9	61,0 / 81,7	61,0 / 81,7
Prime power (kW/HP)*	17,3 / 23,1	23,1 / 30,9	28,2 / 37,8	33,1 / 44,3	37,3 / 49,9	55,4 / 74,3	55,4 / 74,3
Emission compliance	Stage IIIA	Stage IIIA	Stage IIIA	Stage IIIA	not emissioned	not emissioned	Stage IIIA

60 Hz @1800 rpm

POWER	KDI1903M	KDI2504M	KDI2504TM	KDI3404TM CAC
Stand-by Power (kW/HP)*	20,5 / 27,5	29,0 / 38,9	36,4 / 48,8	68,0 / 91,1
Prime power (kW/HP)*	18,6 / 25,0	26,4 / 35,3	33,1 / 44,3	63,0 / 84,4
Emission compliance	Tier 3/Tier4 i ⁽¹⁾	Tier 3/Tier4 i ⁽¹⁾	Tier 3/Tier4 i ⁽¹⁾	Tier 3/Tier4 i ⁽¹⁾

* Engine power rated according to ISO 3046 rules, after running period in ambient conditions of 20°C and 1 Bar. Power levels drop by 1% every 100 m altitude and by 2% every 5°C above +25°C. Fuel specification EN590.

(1) for stationary + emergency applications EPA compliant.

KOHLER® Engines

50 Hz @1500 rpm

FUEL CONSUMPTION PRIME (GROSS)(g/kWh)	KDI1903M	KDI2504M	KDI2504TM-30	KDI2504TM-40 EU	KDI2504TM-40	KDI3404TM	KDI3404TM CAC
Fuel Consumption 100% load	234,6	229,8	226,8	228,7	225,0	224,8	219,6
Fuel Consumption 75% load	229,1	228,6	238,0	235,7	228,0	231,4	231,2
Fuel Consumption 50% load	234,6	233,9	252,9	252,2	235,0	249,6	248,0
Fuel Consumption 25% load	272,4	266,9	280,6	278,4	265,0	268,4	258,1
Fuel Consumption 10% load Stand by Power	428,6	416,4	420,9	398,4	376,0	358,0	352,8
HEAT BALANCE AND COOLING SYSTEM							
Heat dissipation (engine radiator) (kW/HP)	16,8 / 22,8	19,5/ 26,5	24,0 / 32,2	28,0 / 37,5	30,0 / 40,2	45,0 / 60,3	38,0 / 50,9
Heat dissipation (CAC) (kW)	/	/	/	/	/	/	12
Fan power consumption (kW)	0,6	0,6	0,9	1	1,1	1	1
Cooling air flow (m ³ /h)	1700	2100	4250	7200	7200	6120	6120
Coolant flow (l/min)	40	40	40	40	40	105	105
INLET AND EXHAUST DATA							
Max. Intake depression (mbar/kPa)	13 / 1,3	20 / 2,0	32 / 3,2	36 / 3,6	35	42 / 4.2	42 / 4.2
Combustion air volume (kg/h)	82	110	174	174	177	276	258
Max. exhaust gas temperature (C°)	540	520	455	530	530	650	650
Max. allowed backpressure (mbar)	50	70	80	80	80	90	90
Exhaust gas flow (kg/h)	87	116	180	182	185	291	272

60 Hz @1800 rpm

FUEL CONSUMPTION PRIME (GROSS)(g/kWh)	KDI1903M	KDI2504M	KDI2504TM	KDI3404TM CAC
Fuel Consumption 100% load	233,6	224,7	226,6	239,3
Fuel Consumption 75% load	235,6	228,8	236,5	250,0
Fuel Consumption 50% load	245,1	237,4	256,8	243,7
Fuel Consumption 25% load	295,0	277,7	299,8	272,8
Fuel Consumption 10% load Stand by Power	495,2	450,3	470,7	440,1
HEAT BALANCE AND COOLING SYSTEM				
Heat dissipation (engine radiator) (kW/HP)	16,7 / 22,4	21,6 / 28,9	28,0 / 37,5	43,0 / 57,6
Heat dissipation (CAC) (kW)	/	/	/	14,3
Fan power consumption (kW)	0,7	1	1,1	1,5
Cooling air flow (m ³ /h)	2050	5100	8600	7308
Coolant flow (l/min)	50	50	50	125
INLET AND EXHAUST DATA				
Max. Intake depression (mbar/kPa)	24 / 2,4	22 / 2,2	30 / 3	42 / 4.2
Combustion air volume (kg/h)	100,8	135	195	312,6
Max. exhaust gas temperature (C°)	550	550	475	650
Max. allowed backpressure (mbar)	85	85	80	90
Exhaust gas flow (kg/h)	105	141	202	328,9

KOHLER® Engines

Kohler Engines is a brand distributed by Lombardini s.r.l., part of Kohler Group.

Lombardini has manufacturing facilities in Italy, Slovakia and India and sales subsidiaries in France, Germany, UK, Spain and Singapore.

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