

rehlko



Kohler Engines
is now Rehlko

KD Series

Air Cooled Diesel Engines

12.0 – 18.8 kW | 16.3 – 35.4 hp



Twin Cylinder Air-Cooled Diesel Engines

Standard equipment

Electric starting with 12 V starter motor and alternator

Remote throttle

Oil pressure switch

Combined manifold and exhaust muffler

Engine feet

Fuel lift pump

Counter-clockwise rotation on power take-off side

Automatic extra fuel device

Use, maintenance and spare parts booklet

Oil bath air filter

Manual control accelerator

Power take-off on flywheel (KD-625/2)

Power take-off on crankshaft (KD-330/2; KD-425/2)

Fuel tank with filter



Air-Cooled Diesel Engines

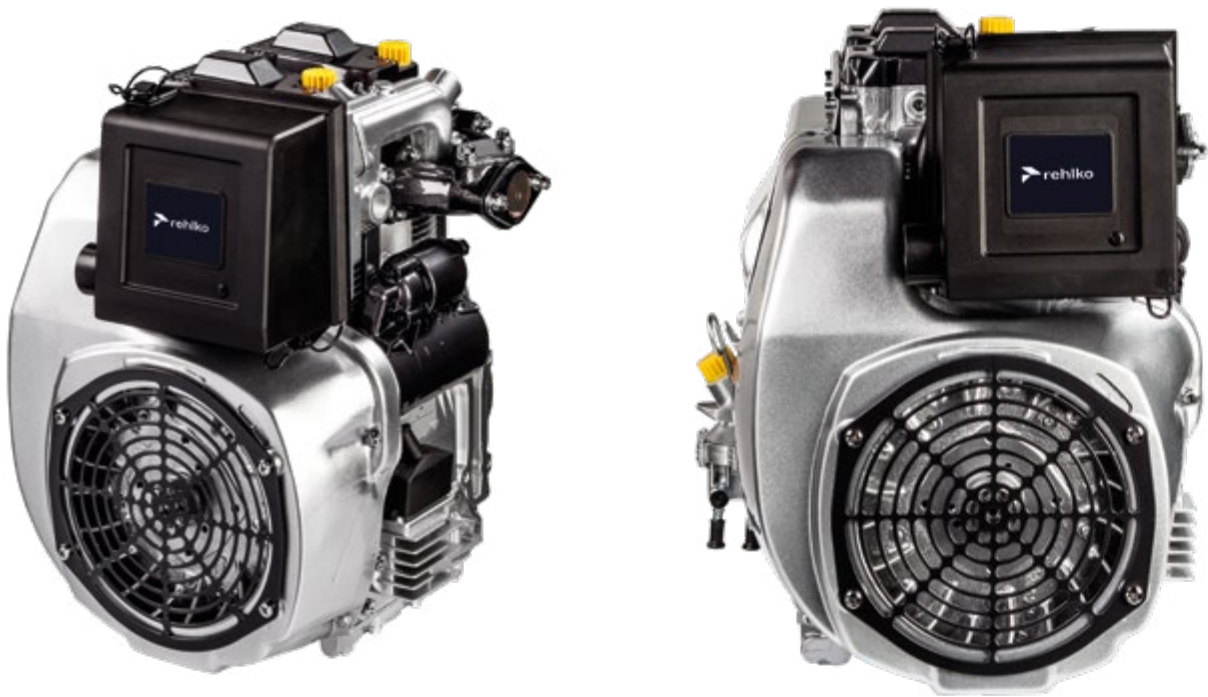
Accessories on demand

Different guards according to use
24V alternators and starter motors
Automatic release decompression system
Flanges
Dry air filter
External fuel filter
Clutches
Range of fuel tanks of various sizes
Hydraulic pump adapters

Range of flywheels for various clutches
Mufflers and exhaust pipes
Controls
Pulleys
Oil cooler (KD-625/2; KD-330/2; KD-425/2)
Crank starter (KD-625/2)
Keyswitch panel and wiring harness

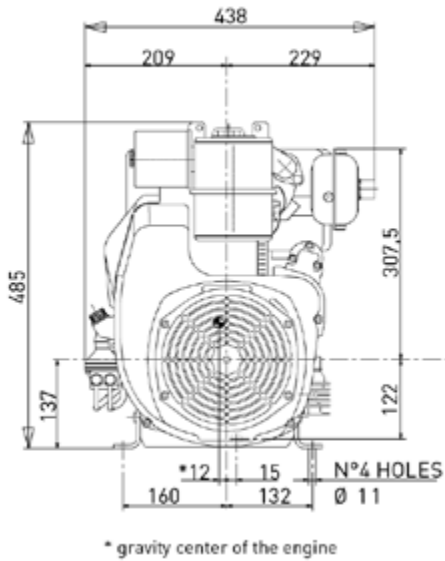
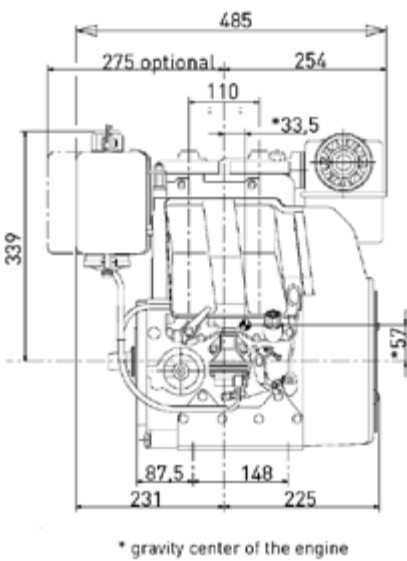


KD 330/2



Data

Dimensions (mm)

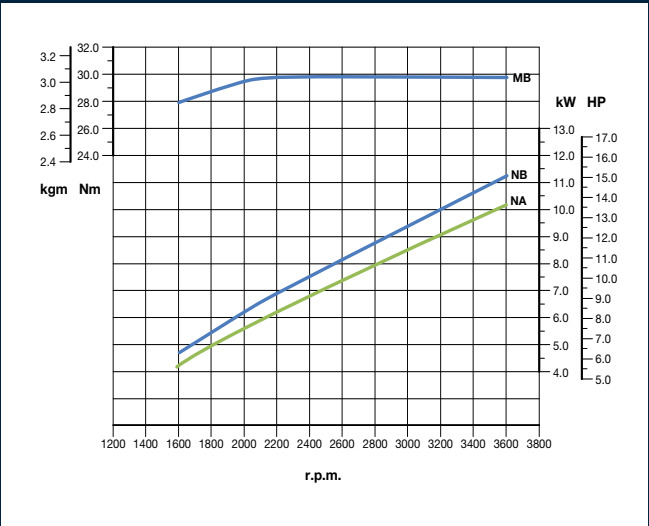


QUICK SPECIFICATIONS	KD 330/2
CYLINDERS	2
MAX POWER kW (HP) @ rpm	12.0 (16.1) @ 3600
MAX TORQUE Nm @ rpm	32.0 @ 2400

Performance curves

IFN ACCORDING TO ISO 14396

KD 330/2



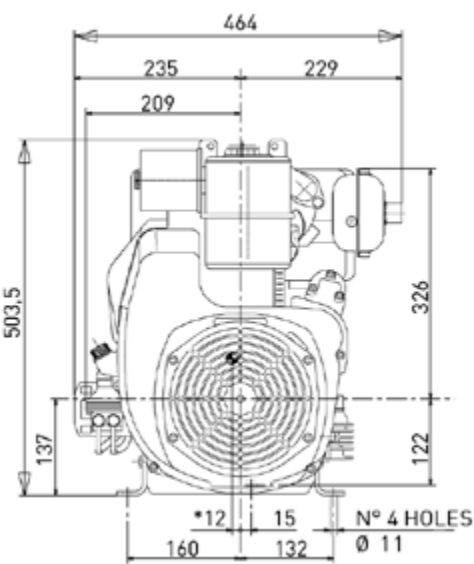
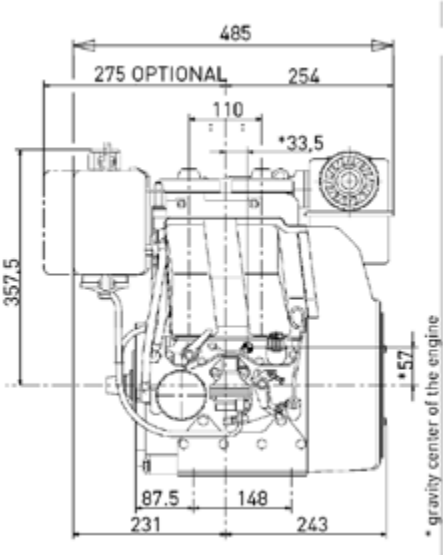
- NB - Power curve
- NA - Power curve
- MB - Torque curve - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power levels drop by 1% every 100 m altitude and by 2% every 5°C above +25°C.

KD 425/2

Data

Dimensions (mm)

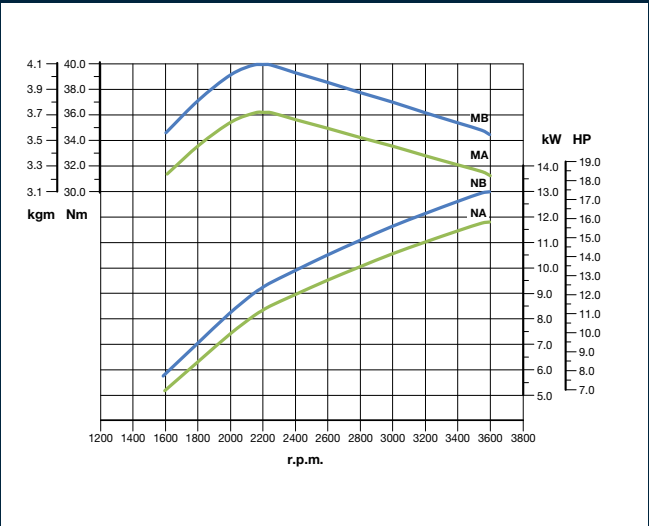


QUICK SPECIFICATIONS	
CYLINDERS	2
MAX POWER kW (HP) @ rpm	13 (17.4) @ 3600
MAX TORQUE Nm @ rpm	40 @ 2200
EMISSION COMPLIANCE	ECE R 24
OPERATING SPEED	VARIABLE SPEED

Performance curves

IFN ACCORDING TO ISO 14396

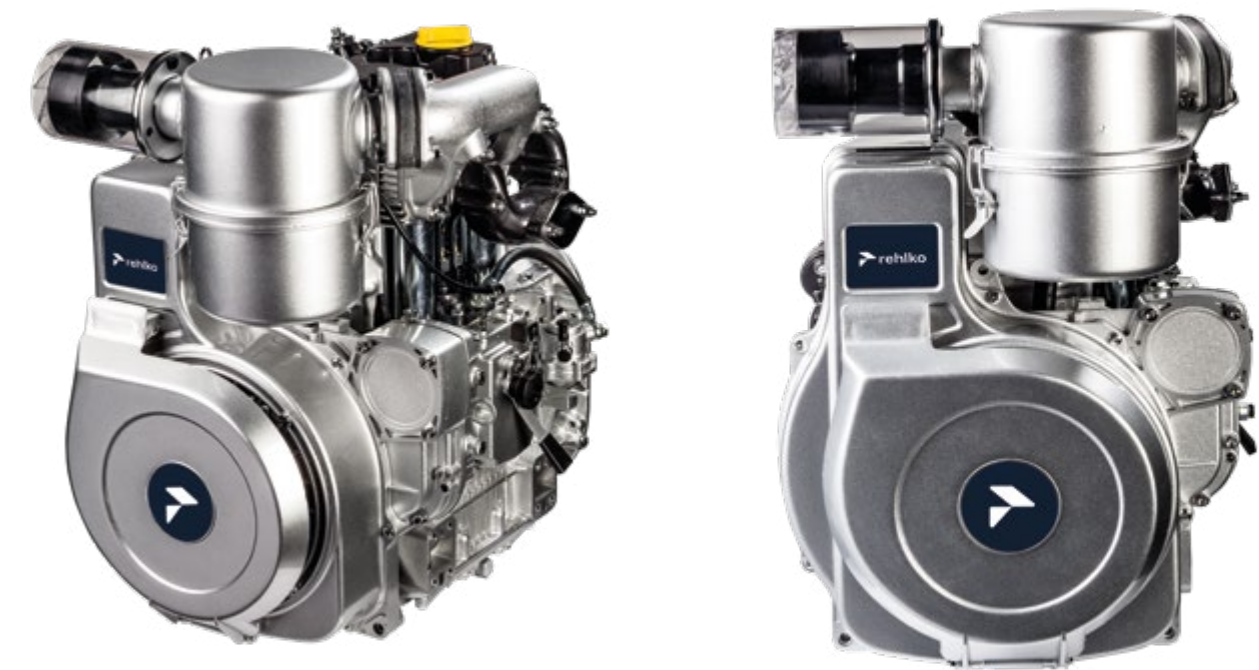
KD 425/2



- NB - Power curve
- NA - Power curve
- MB - Torque curve - (NB curve)
- MA - Torque curve - (NA curve)

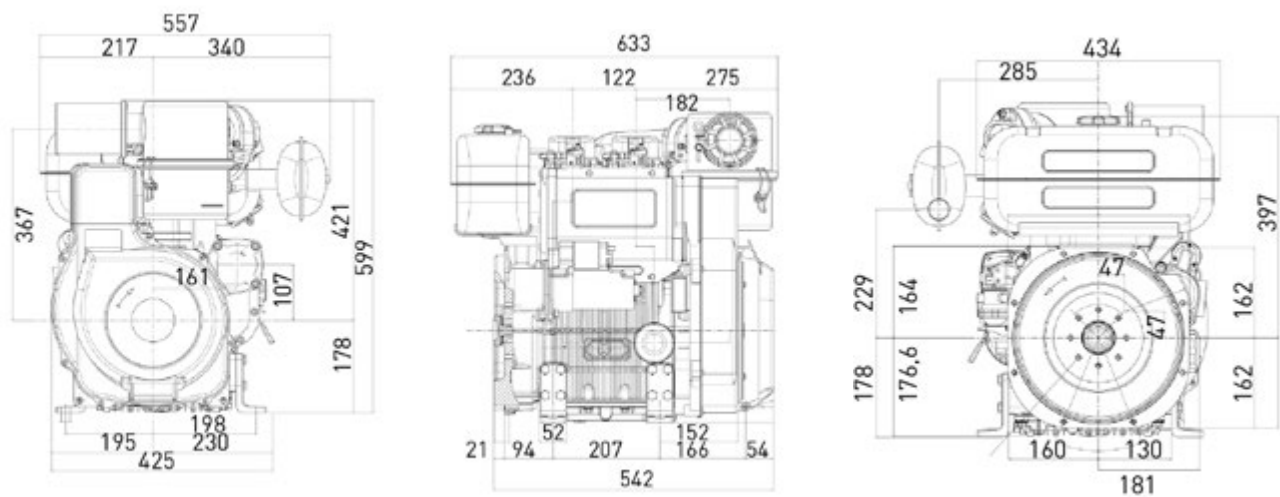
Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power levels drop by 1% every 100 m altitude and by 2% every 5°C above +25°C.

KD 625/2



Data

Dimensions (mm)



QUICK SPECIFICATIONS	
CYLINDERS	2
MAX POWER kW (HP) @ rpm	18.8 (25.2) @ 3000
MAX TORQUE Nm @ rpm	67.0 @ 2200

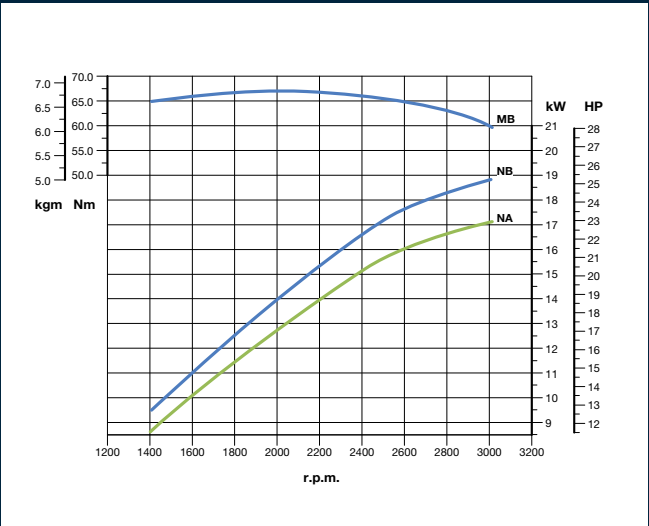
Setting @ 2800 RPM

Power NB (kW)	Torque NB (Nm)
18.2 @ 2800 rpm	67.0 @ 2000 rpm

Performance curves

IFN ACCORDING TO ISO 14396

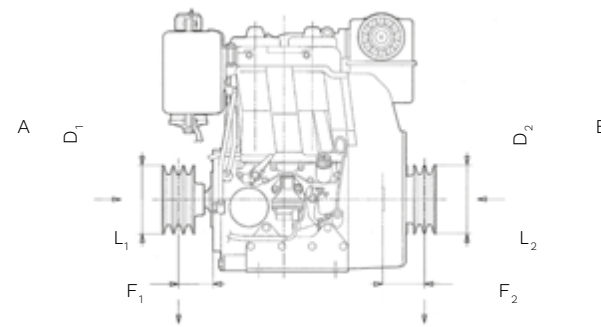
KD 625/2



- NB – Power curve
- NA – Power curve
- MB – Torque curve – (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power levels drop by 1% every 100 m altitude and by 2% every 5°C above +25°C.

Application specs



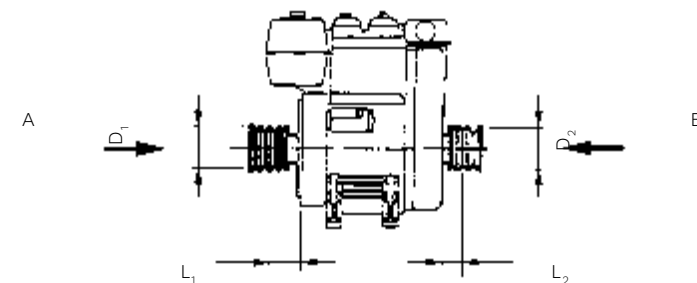
KD-330/2 ; KD-425/2

Minimum pulley diameters for belt drive

330/2:	$D1 \text{ (mm)} \geq 585 [49 + L1(\text{mm})]$	$\frac{N \text{ (kW)}}{n \text{ (rpm)}}$	$D2 \text{ (mm)} \geq 1030 [31 + L2(\text{mm})]$	$\frac{N \text{ (kW)}}{n \text{ (rpm)}}$
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$$425/2: \quad D1 \text{ (mm)} \geq 700 [45 + L1 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (rpm)}} \quad D2 \text{ (mm)} \geq 1540 [17 + L2 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A – B = 300 kg



KD-625/2

Minimum pulley diameters for belt drive

$$D1 \text{ (mm)} \geq 136 [162 + L1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}} \qquad D2 \text{ (mm)} \geq 204 [260 + L2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A – B = 300 kg

Available Flanges*

	FLANGE STANDARD TYPE	STANDARD VERSION	
STANDARD VERSION - KD 625/2			
KD - 625/2			SAE 4, 7 1/2
	FLANGE STANDARD TYPE	STANDARD VERSION	FLANGE TYPE CRANKSHAFT VERSION
KD - 330/2			
	FLANGE STANDARD TYPE	STANDARD VERSION	FLANGE TYPE CRANKSHAFT VERSION
KD - 425/2			
	FLANGE STANDARD TYPE	STANDARD VERSION	FLANGE TYPE CRANKSHAFT VERSION

*Other flanges available on request.

*Other flanges available on request

Technical Specifications

MODEL		KD-330/2	KD-425/2
Engine specs	4 stroke air cooled diesel engine	•	•
	Direct injection	•	•
	Mechanical fuel lift pump	•	•
	Forced lubrication with oil pump	•	•
	Full flow oil filtration	•	•
	Torque adapter	•	•
	Centrifugal speed governor	•	•
	Crankcase in die-cast aluminum	•	•
	Electric starting	•	•
	Counter-clockwise rotation (from power take-off side)	•	•
	Aluminum alloy independent heads	•	•
	Independent and replaceable cast iron cylinders	•	•
	Automatic extra fuel starting device	•	•
	Air cooled by fan	•	•
	Power take-off on crankshaft	•	•
	Power take off on Flywheel	-	-
Technical features	Cylinder	2	2
	Bore (mm)	80	85
	Stroke (mm)	65	75
	Engine displ (cm³)	654	851
	Injection system	DI	DI
	Compression ratio	19:1	19:1
Performance	Emission compliance	ECE R 24	ECE R 24
	Rating (kW/HP) NB ISO 3046 IFN NA ISO 3046 ICXN	12.0/16.1 10.0/13.4	13/17.4 11.8/15.8
	Max torque (Nm@rpm)	32.0@2400	40.0@2200
	Min idling speed (rpm)	1000	1000
Fuel compatibility	EN 590	•	•
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 15	•	•
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 500	•	•
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 15	•	•
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 500	•	•
	ARCTIC EN 590/ASTM D 975-09 B	•	•
	High Sulfur Fuel < 5000 ppm (< 0.5%)	•	•
	High Sulfur Fuel > 5000 ppm (> 0.5%)	•	•
	Military NATO Fuels F34 - F35 - F44 - F63 - F64 - F65 *	•	•
	Military US Fuels JP5-JP8 (AVTUR) *	•	•
	Civil Jet Fuels Jet A/ A1*	•	•
	HVO - Hydrotreated Vegetable Oil	•	•
Service features	Fuel tank capacity (l)	4	4
	Oil sump capacity (l)	1.5	1.7
	Oil consumption (kg/h)	0.007	0.0085
	Oil change interval std/synthetic (hr)	250 **	250 **
	Oil filter change interval std/synthetic (hr)	250 **	250 **
	Valve adjustment	500	500
Physical characteristics	H x L x W (fan excluded) (mm)	485x485x438	503.5x485x464
	Dry weight (kg)	60	63
	Daily service points - positions	1 side service	1 side service
	Ambient operating temps (°C)	-5° +45° ***	-5° +45° ***
	Gradeability-all round (intermittent-30 min) (deg)	25°	25°
	Gradeability-all round (peak value-1min) (deg)	35°	35°
	Cap. of air required for correct combustion @3600 (l/min)	1050/875	1330/1110
	Cap. of air required for correct cooling @3600 (l/min)	11700/9750	14200/11835
Lubrication	Oil type	SAE 5W-40 / API CF4	SAE 5W-40 / API CF4

(Power & torque NB curve – ISO 3046/1 – IFN)

* With restrictions ** According to operating conditions *** –32°C on demand

Technical Specifications

MODEL		KD15-441	
Engine specs	4 stroke air cooled diesel engine	•	
	Direct injection	•	
	Mechanical fuel lift pump	•	
	Forced lubrication with oil pump	•	
	Full flow oil filtration	•	
	Torque regulator	•	
	Centrifugal speed governor	•	
	Crankcase in die-cast aluminum	•	
	Electric starting	•	
	Counter-clockwise rotation (from power take-off side)	•	
	Aluminum alloy independent heads	•	
	Indipendent cast iron cylinders	•	
	Automatic extra fuel starting device	•	
	Air cooled by fan	•	
	Power take-off on crankshaft	-	
	Power take off on Flywheel	•	
Technical features	Cylinder	2	
	Bore (mm)	95	
	Stroke (mm)	88	
	Engine displ (cm³)	1248	
	Injection system	DI	
	Compression ratio	17.5:1	
Performance	Emission compliance	ECE R 24	
	Rating (kW/HP) NB ISO 3046 IFN NA ISO 3046 ICXN	18.8/25.2 16.8/22.5	
	Max torque (Nm@rpm)	67.0@2000	52.5@3000
	Min idling speed (rpm)	1000÷1100	
Fuel compatibility	EN 590	•	
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 15	•	
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 500	•	
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 15	•	
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 500	•	
	ARCTIC EN 590/ASTM D 975-09 B	•	
	High Sulfur Fuel < 5000 ppm (< 0.5%)	•	
	High Sulfur Fuel > 5000 ppm (> 0.5%)	•	
	Military NATO Fuels F34 - F35 - F44 - F63 - F64 - F65 *	•	
	Military US Fuels JP5-JP8 (AVTUR) *	•	
	Civil Jet Fuels Jet A/ A1*	•	
	HVO - Hydrotreated Vegetable Oil	•	
Service features	Fuel tank capacity (l)	10	
	Oil sump capacity (l)	2.8	
	Oil consumption (kg/h)	0.013	
	Oil change interval std/synthetic (hr)	250 **	
	Oil filter change interval std/synthetic (hr)	250 **	
	Valve adjustment	250	
Physical characteristics	H x L x W (fan excluded) (mm)	599x633x557	
	Dry weight (kg)	115	
	Daily service points - positions	1 side service	
	Ambient operating temps (°C)	-10° +45° ***	
	Gradeability-all round (intermittent-30 min) (deg)	25°	
	Gradeability-all round (peak value-1min) (deg)	35°	
	Cap. of air required for correct combustion @3600 (l/min)	1600 (@3000)	
	Cap. of air required for correct cooling @3600 (l/min)	26300 (@3000)	
Lubrication	Oil type	SAE 5W-40 / API CF4	

* With restrictions ** According to operating conditions *** –32°C on demand

Notes

Notes



For more information, contact your Rehko source of supply.
Discovery Energy, LLC reserves the right to make modifications without prior notice.

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