



MARINE COMMON RAIL ENGINES

4LV Series - 230 / 250

In-line, 4-stroke, vertical, water-cooled diesel engine				
169 kW@3800 rpm 184 kW@3800 rpm	[230 mhp@3800 rpm] [250 mhp@3800 rpm]			
4 cylinder				
2.755 L	[168 cu in]			
92 mm x 103.6 mm	[3.6 in x 4 in]			
Turbocharged & intercooled				
Direct injection, Denso common rail system				
Electric starting 12V – 2 kW				
Electronic				
Fresh water cooling by centrifugal fresh water pump Seawater cooling by rubber impeller seawater pump				
Denso 12V - 130A				
Enclosed, forced lubricating system				
API class: CD or higher, SAE grade: 15W-40				
Counterclockwise (CCW) viewed from stern				
334 kg [736	i lbs]			
1151 x 755 x 772 mm				
EU: RCD 2, BSO II, IMO, EMC	US: EPA Tier 3, EPA-C			
Borg Warner / SAE #7				
Mechanical (optional - VC20 system)				
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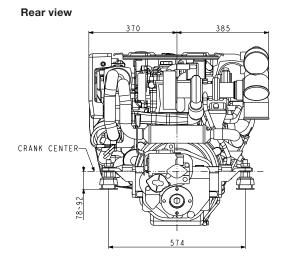
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm3: 1 kW = 1.3596 mhp = 1.3410 HP

Technical data is according to (ISO 8665) / (ISO 3046)

* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]

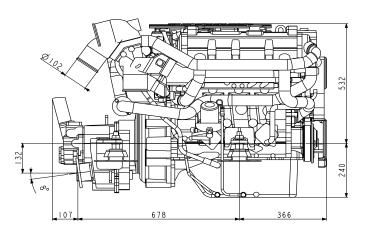
†Length includes KMH50A marine gear (Dimensions may vary with other gears/elbow)

DIMENSIONS



4LV230 with KMH50A marine gear (Not to be used for engine installation)

Right side view







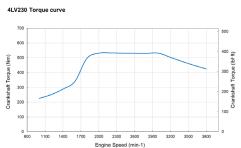
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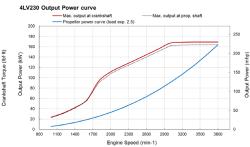
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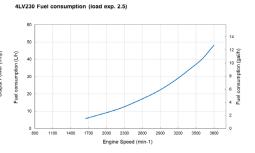


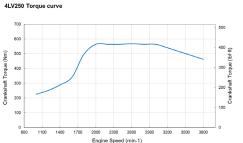


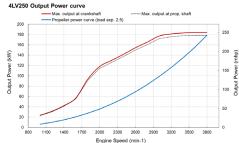
PERFORMANCE CURVES



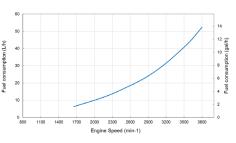












MARINE GEAR*

Model	KMH50A [down angle: 8°]		KMH50V [V-drive, angle: 12°]					
Clutch type	Hydraulic multi disc		Hydraulic multi disc					
Dry weight	54 kg [119 lbs]		77 kg [165 lbs]					
Reduction ratio [fwd/asn]	1.67/1.67	2.13/2.13	2.43/2.43	1.2	22/1.22	1.58/1.58	2.08/2.08	2.47/2.47
Direction of rotation [viewed from stern]	Clockwise & counterclockwise		Clockwise & counterclockwise					
Lubrication system	Forced lubrication			Forced lubrication				
Lube oil specifications	API class: CF or higher, SAE grade: #30		API class: CF or higher, SAE grade: #30					
Max. lube oil capacity	1.8 L		5.4 L					
Dry weight - engine & gear	388 kg [855 lbs]			411 kg [906 lbs]				

* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information.

ACCESSORIES

Standard engine package

- Exhaust mixing elbow [L-type]
- Alternator 12V 130A
- B25 panel
- Flexible mounts
- Mechanical throttle sensor
- Fresh water expansion tank

Optional accessories

- High-riser mixing elbow [instead of L-elbow]
- Secondary alternator 24V 85A
- Secondary alternator 12V 130A or 24V 110A including smart regulator
- C35 panel
- Extension harness [3m, 5m, 10m, 20m]
- Second station
- Sidemount control head
- VC20 Vessel Control System

- JC20 Inboard Joystick
- NMEA2000 Engine monitoring system
- Semi 2-pole
- SOLAS including Certifi cate [factory fit only]
- Hot water connection
- Water separator
- Man Over Board Switch [single]
- C-Type trolling [KMH50 only]
- On-board spare parts kit

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