YANMAR

MARINE COMMON RAIL ENGINES

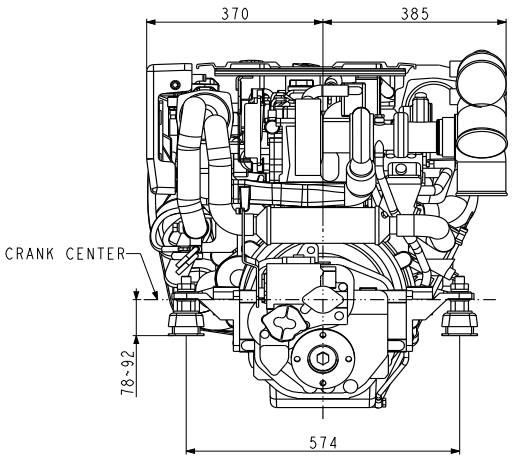
4LV Series - 230 / 250

Configuration	In-line, 4-stroke, vertical, water-cooled diesel engine	
Max. output at crankshaft*	169 kW@3800 rpm 184 kW@3800 rpm	[230 mhp@3800 rpm] [250 mhp@3800 rpm]
No. of cylinders	4 cylinder	
Displacement	2.755 L	[168 cu in]
Bore x stroke	92 mm x 103.6 mm	[3.6 in x 4 in]
Aspiration	Turbocharged & intercooled	
Combustion system	Direct injection, Denso common rail system	
Starting system	Electric starting 12V – 2 kW	
Engine management	Electronic	
Cooling system	Fresh water cooling by centrifugal fresh water pump Seawater cooling by rubber impeller seawater pump	
Alternator	Denso 12V - 130A	
Lubrication system	Enclosed, forced lubricating system	
Engine lube oil specifications	API class: CD or higher, SAE grade: 15W-40	
Direction of rotation at crankshaft	Counterclockwise (CCW) viewed from stern	
Dry weight without gear	334 kg	[736 lbs]
Engine dimensions† L x W x H	1151 x 755 x 772 mm	
Emission compliance	EU: RCD 2, BSO II, IMO, EMC	US: EPA Tier 3, EPA-C
Flywheel housing size	SAE #4	
Controls	Mechanical (optional - VC20 system)	

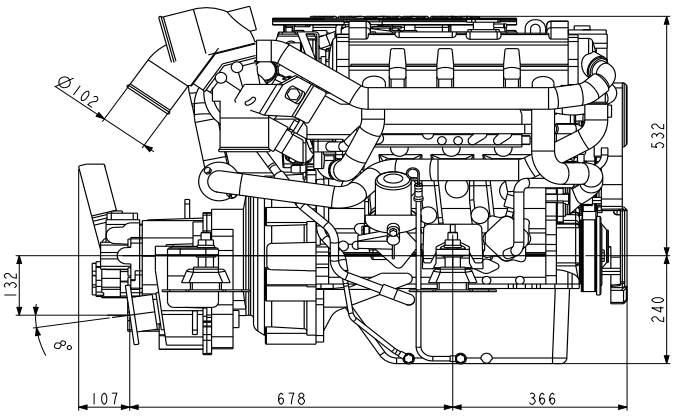
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm³: 1 kW = 1.3596 mhp = 1.3410 HP
Technical data is according to (ISO 8665) / (ISO 3046)
* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]
†Length includes KMH50A marine gear (Dimensions may vary with other gears/elbow)

DIMENSIONS

Rear view



Right side view

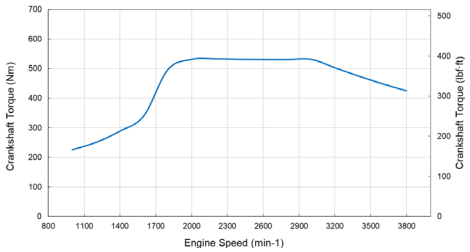


4LV230 with KMH50A marine gear
(Not to be used for engine installation)

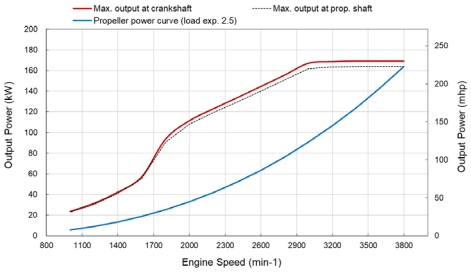
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PERFORMANCE CURVES

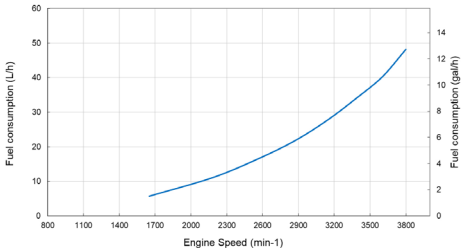
4LV230 Torque curve



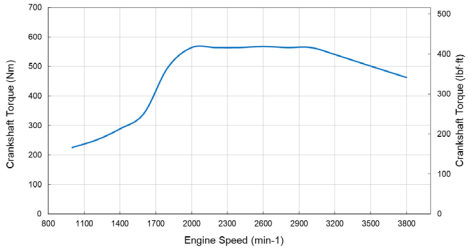
4LV230 Output Power curve



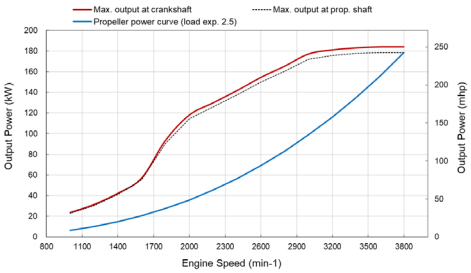
4LV230 Fuel consumption (load exp. 2.5)



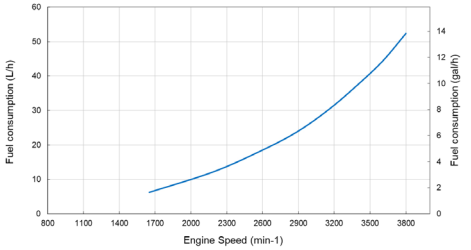
4LV250 Torque curve



4LV250 Output Power curve



4LV250 Fuel consumption (load exp. 2.5)



MARINE GEAR*

Model	KMH50A [down angle: 8º]			KMH50V [V-drive, angle: 12º]			
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	1.22/1.22	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

NOTE: All data subject to change without notice. Text and illustrations are not binding.

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