



4LV Series - 150 / 170 / 195

| | | |
|-------------------------------------|---|-----------------------|
| Configuration | In-line, 4-stroke, vertical, water-cooled diesel engine | |
| Max. output at crankshaft* | 110 kW@3500 rpm | [150 mhp@3500 rpm] |
| | 125 kW@3500 rpm | [170 mhp@3500 rpm] |
| | 143 kW@3500 rpm | [195 mhp@3500 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, ^ EMC | US: EPA Tier 3, EPA-C |
| Flywheel housing size | Borg Warner / SAE #7 | |
| Controls | Mechanical (optional - VC20 system) | |

NOTE: Fuel condition: Density at 15°C = 0.84 g/cm³; 1 kW = 1.3596 mhp = 1.3410 HP

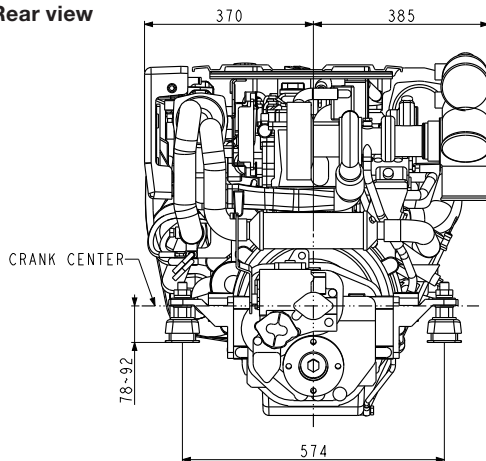
Technical data is according to ISO 8665: 2006

* 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)

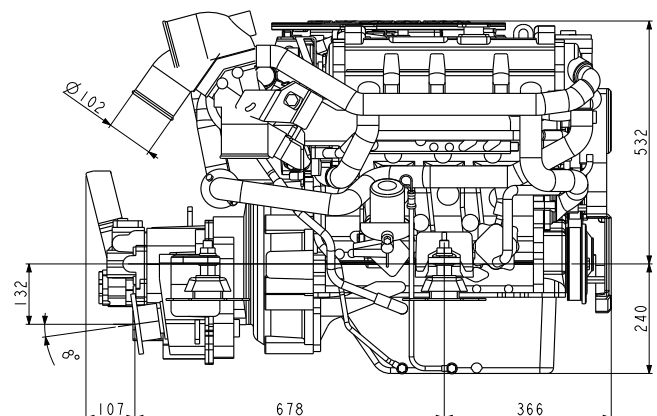
^4LV195 only

DIMENSIONS

Rear view

4LV195 with KMH50A

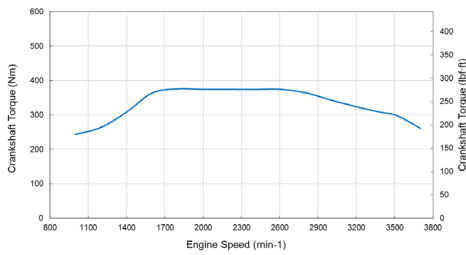
(Not to be used for engine installation)

Right side view

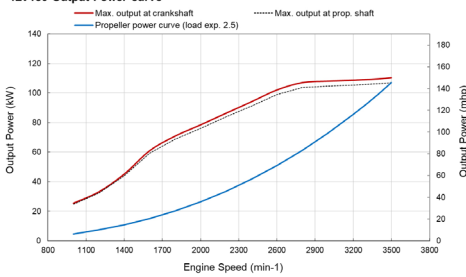


PERFORMANCE CURVES

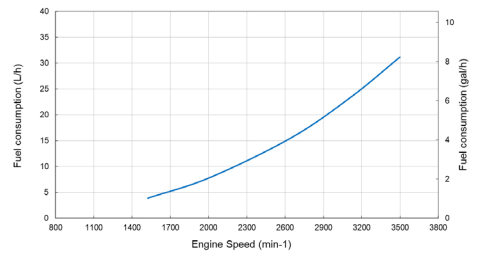
4LV150 Torque curve



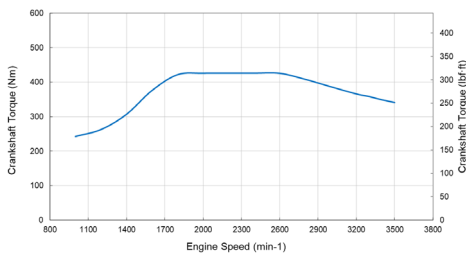
4LV150 Output Power curve



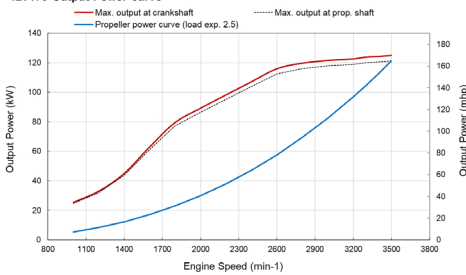
4LV150 Fuel consumption (load exp. 2.5)



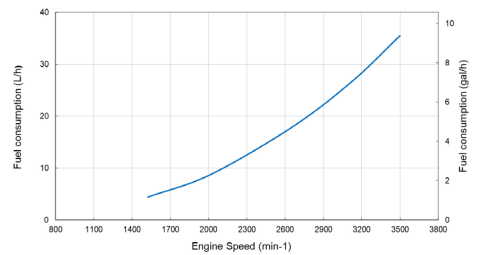
4LV170 Torque curve



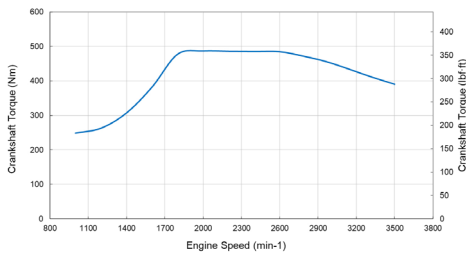
4LV170 Output Power curve



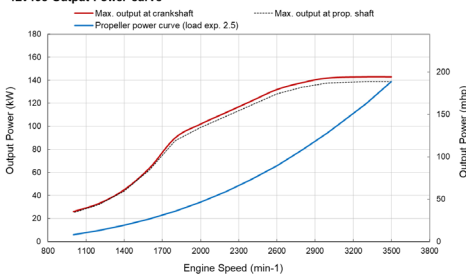
4LV170 Fuel consumption (load exp. 2.5)



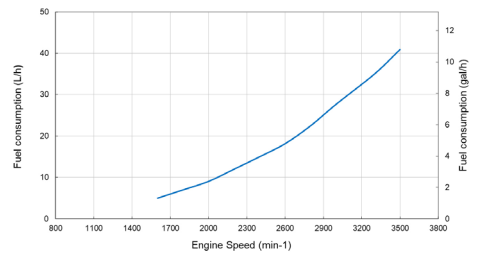
4LV195 Torque curve



4LV195 Output Power curve



4LV195 Fuel consumption (load exp. 2.5)



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 | 1.22/1.22 | 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 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

• JC20A Inboard Joystic

- NMEA2000 Engine monitoring system
- Semi 2-pole
- SOLAS including certificate [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.