

Yanmar type 4JH4-TE

The Powerful Gem

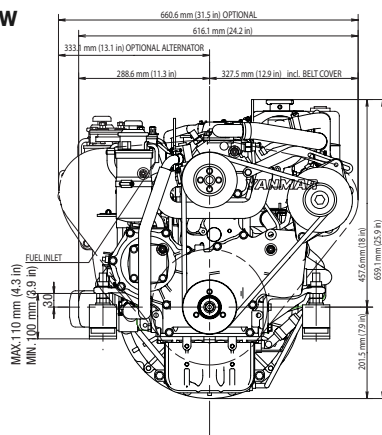


Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 55,2 kW (75 mhp) / 3200 rpm
Continuous rating output at crankshaft	50,2 kW (68 mhp) / 3100 rpm
Displacement	1,995 L (121.7 cu in)
Bore x stroke	84 mm x 90 mm (3.31 in x 3.54 in)
Cylinders	4 cylinders, 4-valves per cylinder
Combustion system	Direct injection
Aspiration	Turbocharged
Starting system	Electric starting 12 V - 1.4 kW
Alternator	12 V - 80 A
Cooling system	Fresh water cooling by centrifugal water pump and rubber impeller sea water pump
Lubrication system	Enclosed, forced lubricating system
Direction of rotation (crankshaft)	Counter clockwise viewed from stern
Dry weight without gear	207 kg (456 lbs)
Environmental	EMC compliant, meets the comprehensive emissions regulations to be introduced in EU and US in 2006
Engine mounting	Rubber type flexible mounts

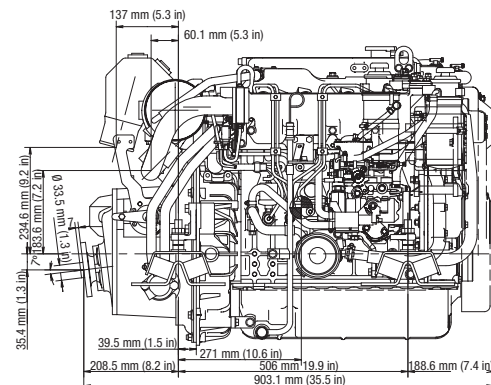
NOTE: Fuel condition: Density at 15°C = 0.842g/cm³; 1 mhp = 1PS = 0.7355 kW = 0.9863 bhp
 * Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

Dimensions (For detailed line-drawings, please refer to our web-site: www.yanmarmarine.com)

Rear view



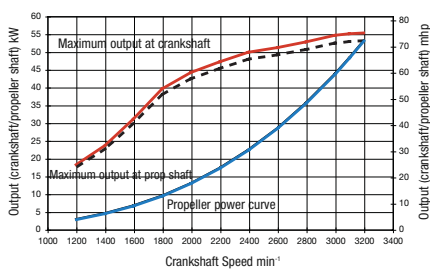
Right side view



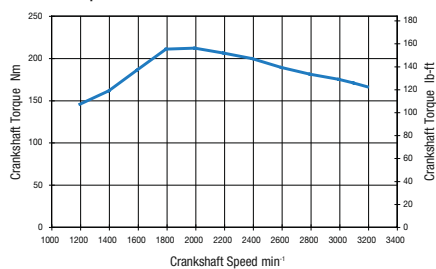
4JH4-TE w/ KM4A2 marine gear

Performance Curves (Output is according ISO 8665 - Output includes +/- 3% tolerance)

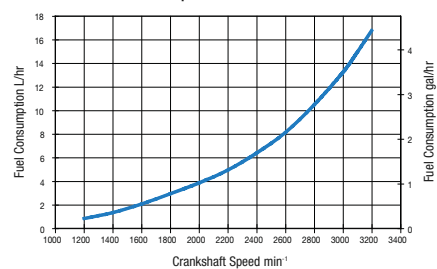
Power



Torque



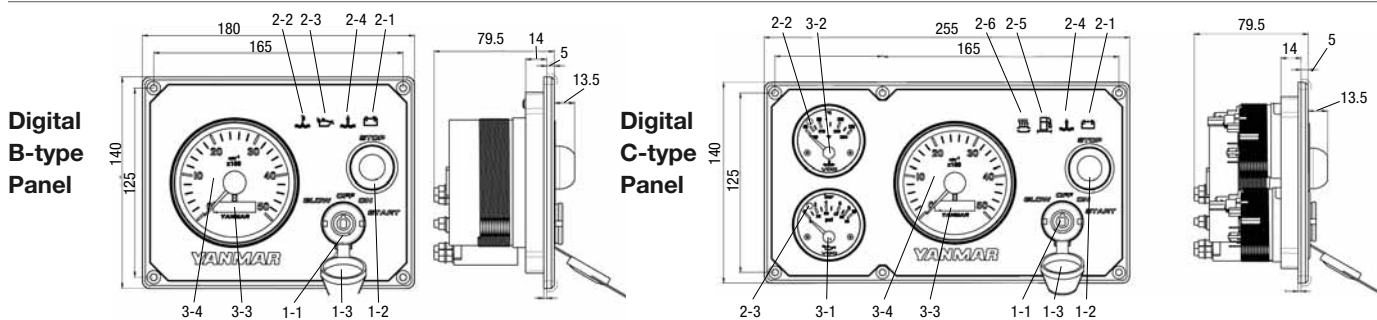
Fuel Consumption



Marine Gears/Drive

Model	ZF30M	KM4A2 down angle:7			KM4A down angle: 8		ZF25A down angle: 8		Saildrive SD50
Type	Mechanical multi disc	Mechanical wet cone clutch			Hydraulic, wet multi-disc		Hydraulic, wet multi-disc		Mechanical wet cone clutch
Dry weight	28 kg (61 lbs)	30 kg (66 lbs)			31 kg (68 lbs)		30 kg (66 lbs)		42 kg (92 lbs)
Reduction ratio (fwd/asn)	2.15/2.64 2.70/2.64	1.47/1.47	2.14/2.14	2.63/2.63	2.04/2.04	2.45/2.45	1.93/1.93	2.48/2.48	2.32/2.32
Propeller speed(fwd/asn)	1444/1176 1150/1176	2115/2113	1451/1450	1180/1179	1520/1520	1263/1263	1607/1607	1250/1250	1337/1337
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from stern	Clockwise or counterclockwise viewed from stern			Clockwise or counterclockwise viewed from stern		Clockwise & counter clockwise viewed from stern		Clockwise & counter clockwise viewed from stern
Dry weight engine and gear/drive	235 kg (518 lbs)	237 kg (522 lbs)			238 kg (524 lbs)		237 kg (522 lbs)		249 kg (549 lbs)
Length engine and gear/drive	923 mm (36.3 in)	903 mm (35.6 in)			933 mm (36.7 in)		1017 mm (40 in)		782 mm (30.8 in)

Instrument Panels



Function	Type of instrument panel	
	Digital B-type Panel	Digital C-type Panel
① Switch unit		
1-1 Key switch for GLOW/OFF/ON/START (4-position switch)	O	O
1-2 Push button switch for engine stop	O	O
1-3 Moisture cap for key switch	O	O
② Alarm lamp unit		
2-1 Battery low charge alarm	O	O
2-2 Coolant high temperature alarm	O	O
2-3 Lubricating oil low pressure	O	O
2-4 Water in sail drive seal alarm	O	O
2-5 Water in fuel filter alarm	X	O
2-6 Sea water insufficient flow alarm	X	O
③ Meters		
3-1 Lubricating oil pressure meter	X	O
3-2 Coolant temperature meter	X	O
3-3 Hour meter	O	O
3-4 Tachometer	O	O
④ Audible alarm buzzer	O	O

Note: O = Equipped on panel X = Not equipped on panel

Accessories

Standard Package

- Set of flexible mounts
- Exhaust/water mixing elbow (L-type)
- V-belt safety cover
- Expansion tank for fresh water cooling system
- Alternator 12 V - 80 A
- Electric stop solenoid
- Digital B-type instrument panel

Optional

- Additional Digital B-type instrument panel
- Digital C-type instrument panel (double C-panel is not possible)
- Second 80 A alternator
- Alternator bracket and cover for second alternator
- Exhaust/water mixing elbow, U-type (high riser)
- Various extension wire harnesses (4M, 6M, 10M)
- Various couplings (straights, tapers, slits)

Texts and illustrations are not binding. Yanmar Marine reserves the right to introduce adaptations without prior notification.