



Yanmar type 4JH4-HTE

The Powerful Gem

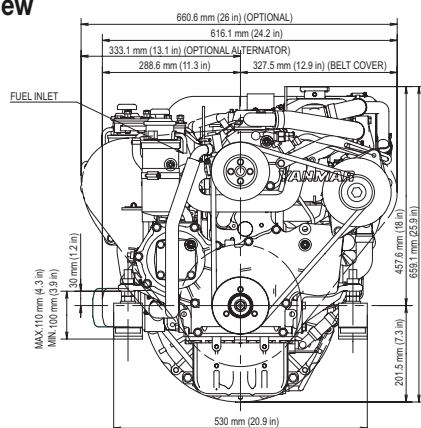


Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 80.9 kW (110 mhp) / 3200 rpm
Continuous rating output at crankshaft	73.6 kW (99 mhp) / 3101 rpm
Displacement	1.995 L (121.7 cu in)
Bore x stroke	84 mm x 90 mm (3.31 in x 3.54 in)
Cylinders	4 cylinders, 4-valves per cylinder
Combustion system	Direct injection
Aspiration	Turbocharged
Starting system	Electric starting 12 V - 1.4 kW
Alternator	12 V - 80 A (60A optional)
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	217 kg (478 lbs)
Environmental	Meets EPA Tier2, BSO Tier2 and RCD comprehensive emissions regulations introduced in EU and US in 2006
Engine mounting	Rubber type flexible mounts

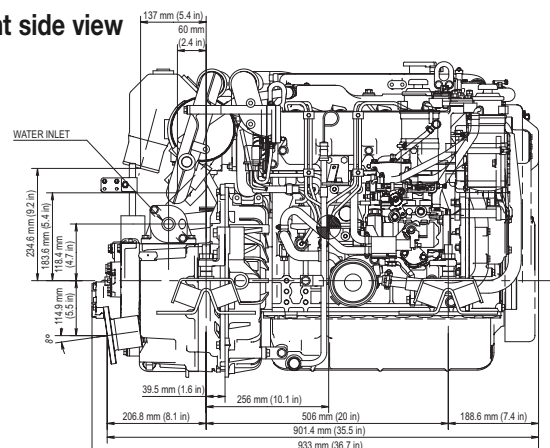
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm³; 1kW = 1.3596 mhp = 1.3410 HP
 * Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)
 Technical data is according to ISO 8665 / 3046

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

Rear view



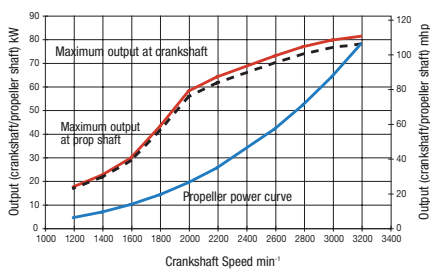
Right side view



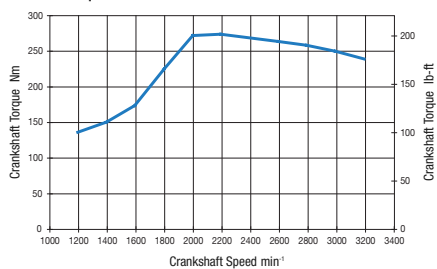
4JH4-HTE w/ KM4A2 marine gear

Performance Curves (Output is according ISO 8665)

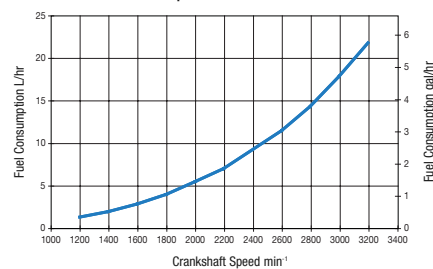
Power



Torque



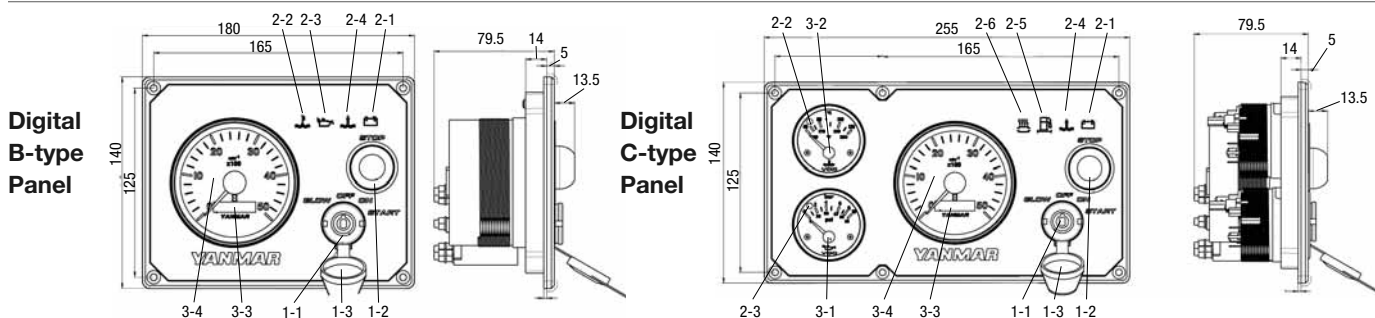
Fuel Consumption



Marine Gears/Drive

Model	ZF30M	KM4A2 down angle:7	KM4A down angle: 8	ZF25A down angle: 8
Type	Mechanical multi disc	Mechanical wet cone clutch	Hydraulic, wet multi-disc	Hydraulic, wet multi-disc
Dry weight	28 kg (61 lbs)	30 kg (66 lbs)	31 kg (68 lbs)	30 kg (66 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
Propeller speed (fwd/asn)	1488/1212 1185/1212	2177/2177 1495/1495 1217/1217	1569/1569 1306/1306	1658/1658 1290/1290
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
Dry weight engine and gear/drive	245 kg (540 lbs)	247 kg (545 lbs)	248 kg (547 lbs)	247 kg (545 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)

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 (optional)	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 mixing elbow (L-type)
- V-belt safety cover
- Expansion tank for fresh water cooling system
- Alternator 12 V - 80 A
- Electric stop solenoid

Optional

- Digital B-type instrument panel
- Digital C-type instrument panel + sensor assembly for digital C-panel)
- Exhaust mixing elbow, U-type (high riser)
- Various extension wire harnesses (4M, 6M, 10M)

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

4JH4-HTE Version: 2006-07