

Yanmar type 4JH3-TE

The Powerful Gem

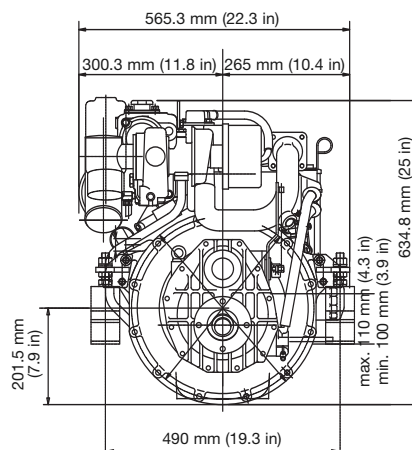


Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 55 kW (75 hp) / 3800 rpm ** 53.5 kW (73 hp) / 3800 rpm
Continuous rating output at crankshaft	51 kW (69 hp) / 3700 rpm
Displacement	1.995 L (122 cu in)
Bore x stroke	84 mm x 90 mm (3.31 in x 3.54 in)
Cylinders	4
Combustion system	Direct injection
Aspiration	Turbocharged
Starting system	Electric starting 12 V - 1.4 kW
Alternator	12 V - 60 A (80 A optional)
Cooling system	Fresh water cooling by centrifugal fresh 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	219 kg (483 lbs)
Environmental	BSO II, SAV, EMC compliant and will meet the 2003/44/EC emission requirements to be effective from 2006
Engine mounting	Rubber type flexible mounting

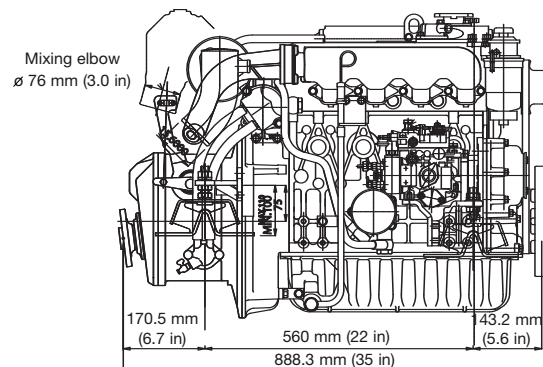
NOTE: Fuel condition: Density at 15°C = 0.842 g/cm³; 1 hp = 0.7355 kW
 * Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)
 ** Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

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

Rear view

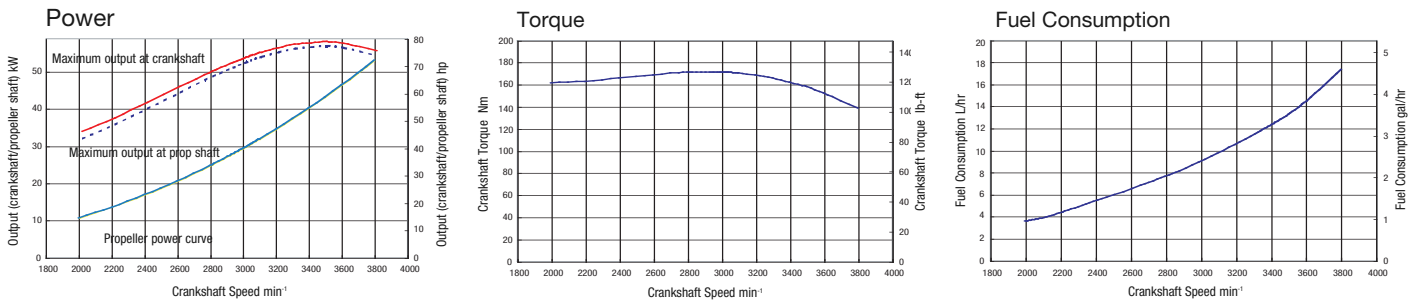


Right side view



4JH3-TE w/ KM4A marine gear

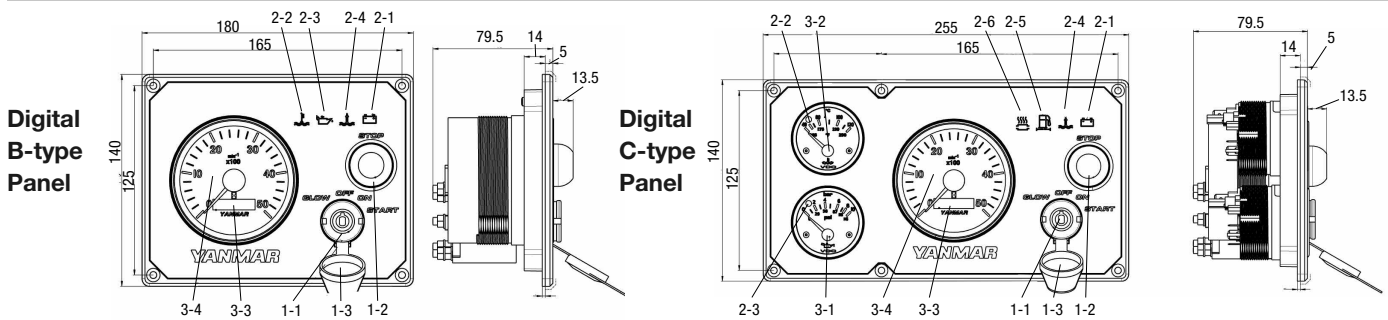
Performance Curves (Output is according ISO 8665 - Output includes +/- 3% tolerance)



Marine Gears/Drive

Model	ZF30M	KM4A1(down angle: 7)			KMH4A1 (down angle: 8)		ZF25A	Saildrive (SD50-T)
Type	Mechanical Multi Plate clutch	Mechanical cone clutch			Hydraulic clutch		Hydraulic clutch	Mechanical cone clutch
Dry weight	28 kg (61 lbs)	28 kg (62 lbs)			31 kg (68 lbs)		30 kg (66 lbs)	42 kg (93 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	3.30/3.30	2.04/2.04 2.45/2.45	1.93/1.93 2.48/2.48	2.32/2.32
Propeller speed(fwd/asn)	1722/1404 1372/1404	2523/2523	1731/1731	1408/1408	1122/1122	1814/1814 1507/1507	1917/1917 1492/1492	1595/1595
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from stern	Clockwise & counter clockwise viewed from stern			Clockwise & counter clockwise viewed from stern		Clockwise & counter clockwise viewed from stern	Clockwise & counter clockwise viewed from stern
Dry weight engine and gear/drive	247 kg (545 lbs)	249 kg (549 lbs)			250 kg (551 lbs)		249 kg (549 lbs)	261 kg (475 lbs)
Length engine and gear/drive	933 mm (37 in)	888 mm (35 in)			886 mm (35 in)		1001 mm (39 in)	1086 mm (43 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 mounting
- Exhaust/water mixing elbow (L-type)
- Expansion tank for fresh water cooling system
- Alternator 12 V - 60 A
- Electric stop solenoid

Optional

- Additional Digital B-type instrument panel
- Additional Digital C-type instrument panel
- Analog (B-type, C-type, New B-type, and New C-type) instrument panels
- Exhaust/water mixing elbow, U-type (high riser)
- Various extension wire harnesses
- Various couplings (straights, tapers, slits)

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