

Yanmar type 4JH3-DTE

The Powerful Gem

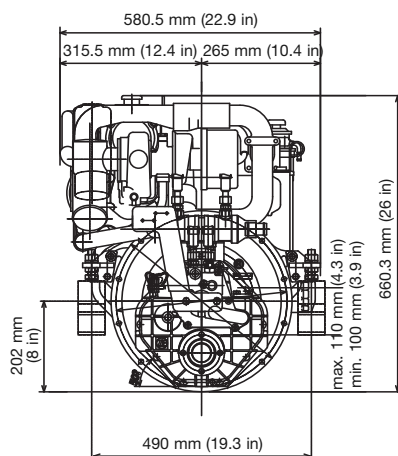


Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 91.9 kW (125 hp) / 3800 rpm ** 89.1 kW (121 hp) / 3800 rpm
Continuous rating output at crankshaft	85.3 kW (116 hp) / 3700 rpm
Displacement	1.995 L (122 cu in)
Bore x stroke	84 mm x 90 mm (3.31 in x 3.54 in)
Cylinders	4
Combustion system	Direct injection
Aspiration	Turbocharged with intercooler
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	229 kg (504.8 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

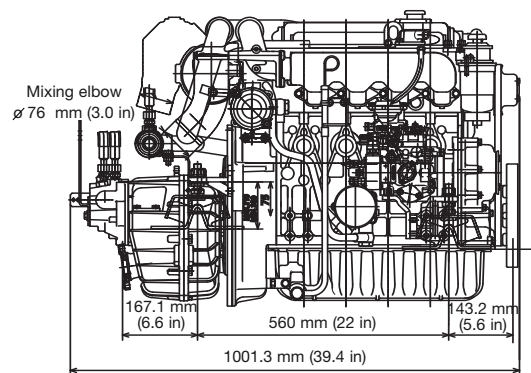
NOTE: Fuel condition: Density at 15°C = 0.842 g/cm³; 1 hp = 0.7355 kW
 * Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)
 ** Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

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

Rear view

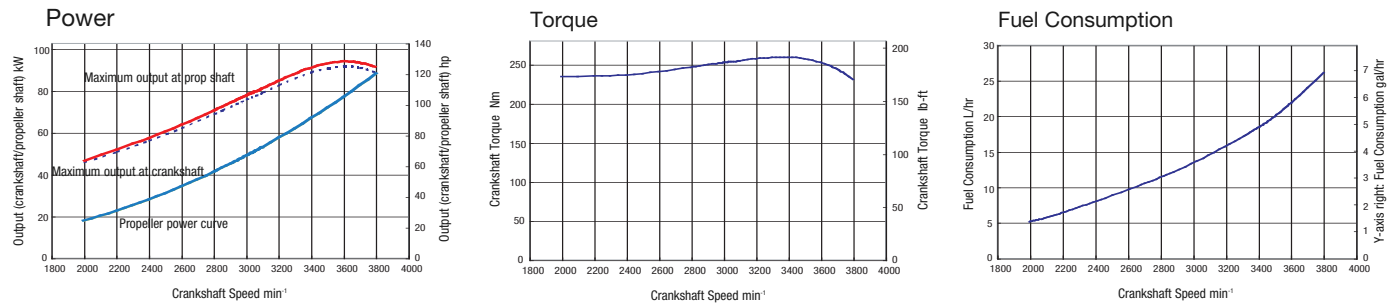


Right side view



4JH3-DTE w/
ZF25A marine gear

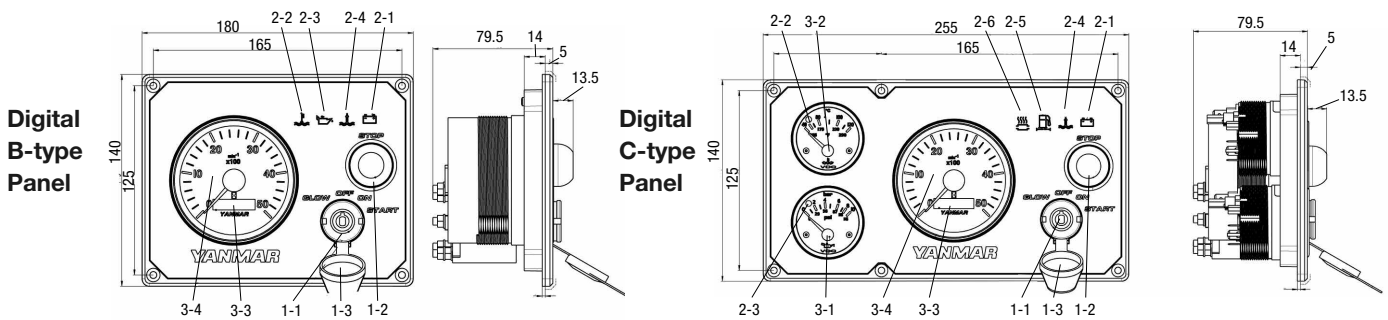
Performance Curves (Output is according ISO 8665 - Output includes +/- 3% tolerance)



Marine Gears/Drive

Model	KM4A1 (down angle: 8)		ZF25A	
Type	Hydraulic clutch		Hydraulic clutch	
Dry weight	31 kg (68 lbs)		30 kg (66 lbs)	
Reduction ratio (fwd/asn)	2.04/2.04	2.45/2.45	1.93/1.93	2.48/2.48
Propeller speed(fwd/asn)	1814/1814	1507/1507	1917/1917	1492/1492
Direction of rotation (propeller shaft - fwd)	Clockwise & counter clockwise viewed from stern		Clockwise & counter clockwise viewed from stern	
Dry weight engine and gear/drive	260 kg (57 lbs)		259 kg (571 lbs)	
Length engine and gear/drive	886 mm (35 in)		1001 mm (39 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)

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