Yanmar type 4JH3-HTE





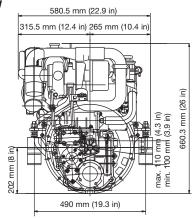


Configuration	4-stroke, vertical, water cooled diesel engine				
Maximum output at crankshaft	* 73.6 kW (100 hp) / 3800 rpm ** 71.4 kW (97 hp) / 3800 rpm				
Continuous rating output at crankshaft	67.7 kW (92 hp) / 3700 rpm				
Displacement	1.995 L (122 cu in)				
Bore x stroke	84 mm x 90 mm (3.31 in 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	228 kg (503 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				

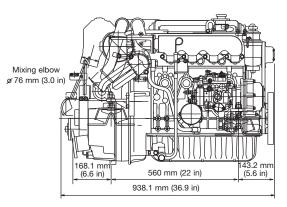
NOTE: Fuel condition: Density at $15^{\circ}C = 0.842 \text{ g/cm}^3$; 1 hp = 0.7355 kW

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

Front view



Right side view

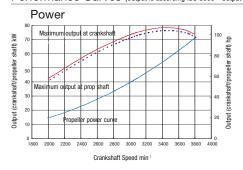


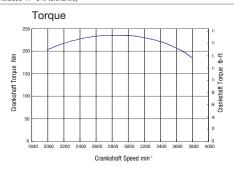
4JH4E w/ KMH4A1 marine gear

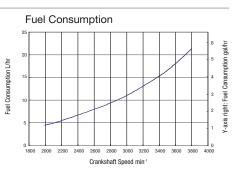


^{*} Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)

^{**}Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)





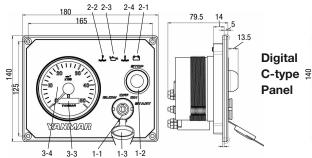


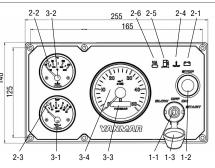
Marine Gears/Drive

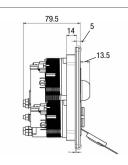
Model	ZF3	OM	KM4A1(down angle: 7)		KMH4A1 (down angle: 8)		ZF25A				
Туре		Mechanical Multi Plate clutch		Mechanical cone clutch				Hydraulic clutch		Hydraulic clutch	
Dry weight	28 kg (61 lbs)	28 kg (62 lbs)		31 kg (68 lbs)		30 kg (66 lbs)				
Reduction ratio (fwd/asn	2.15/2.64	2.70/2.64	1.47/1.47	2.14/2.14	2.63/2.63	3.30/3.30	2.04/2.04	2.45/2.45	1.93/1.93	2.48/2.48	
Propeller speed(fwd/asn)	1722/1404	1372/1404	2523/2523	1731/1731	1408/1408	1122/1122	1814/1814	1507/1507	1917/1917	1492/1492	
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			
Dry weight engine and gear/drive	256 kg (564 lbs)	256 kg (564 lbs)			259 kg (51 lbs)		258 kg (569 lbs)			
Length engine and gear/drive	933 mm	(37 in)	888 mm (35 in)				886 mm (35 in)		1001 mm (39 in)		

Instrument Panels









	Type of instrument panel			
Function	Digital B-type Panel	Digital C-type Panel		
① Switch unit	3 71	3 31		
1-1 Key switch for GLOW/OFF/ON/START (4-position switch)	0	0		
1-2 Push button switch for engine stop	0	0		
1-3 Moisture cap for key switch	0	0		
② Alarm lamp unit				
2-1 Battery low charge alarm	0	0		
2-2 Coolant high temperature alarm	0	0		
2-3 Lubricating oil low pressure	0	0		
2-4 Water in sail drive seal alarm	0	0		
2-5 Water in fuel filter alarm	X	0		
2-6 Sea water insufficient flow alarm	X	0		
3 Meters				
3-1 Lubricating oil pressure meter	X	0		
3-2 Coolant temperature meter	X	0		
3-3 Hour meter	0	0		
3-4 Tachometer	0	0		
4 Audible alarm buzzer	0	0		

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
- Alternator bracket and cover for second alternator
- 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.

