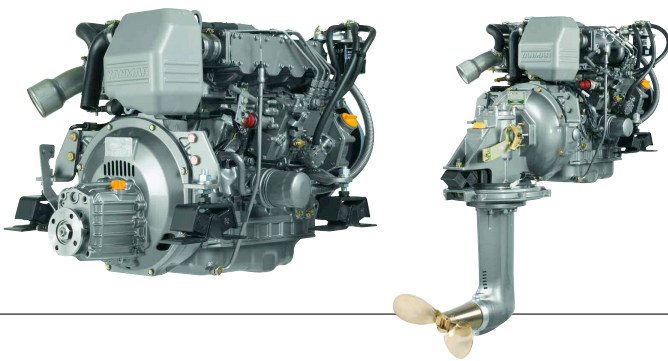


# Yanmar type 4JH4E

## The Powerful Gem

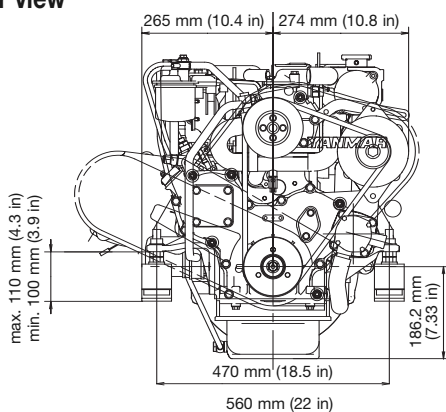


<b>Configuration</b>	4-stroke, vertical, water cooled diesel engine
<b>Maximum output at crankshaft</b>	* 40.5 kW (55 hp) / 3000 rpm ** 39.6 kW (54 hp) / 3000 rpm
<b>Continuous rating output at crankshaft</b>	36.8 kW (50 hp) / 2907 rpm
<b>Displacement</b>	2.19 L (134 cu in)
<b>Bore x stroke</b>	88 mm x 90 mm (3.46 in x 3.54 in)
<b>Cylinders</b>	4
<b>Combustion system</b>	Direct injection
<b>Aspiration</b>	Natural aspiration
<b>Starting system</b>	Electric starting 12 V - 1.4 kW
<b>Alternator</b>	12 V - 60 A (80 A optional)
<b>Cooling system</b>	Fresh water cooling by centrifugal fresh water pump and rubber impeller sea water pump
<b>Lubrication system</b>	Enclosed, forced lubricating system
<b>Direction of rotation (crankshaft)</b>	Counter clockwise viewed from stern
<b>Dry weight without gear</b>	200 kg (441 lbs)
<b>Environmental</b>	BSO II, SAV, EMC compliant and will meet the 2003/44/EC emission requirements
<b>Engine mounting</b>	Rubber type flexible mounting

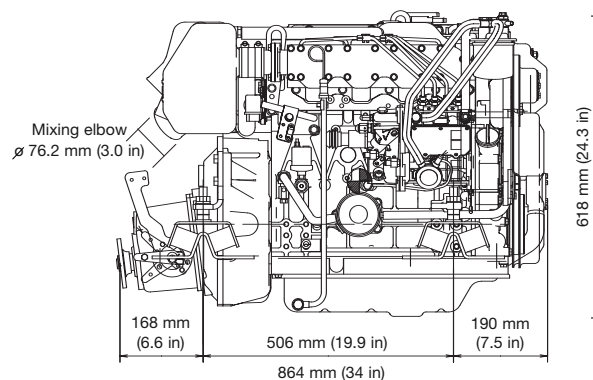
NOTE: Fuel condition: Density at 15°C = 0.842 g/cm<sup>3</sup>; 1 hp = 0.7355 kW  
 \* Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)  
 \*\* Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

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

**Rear view**

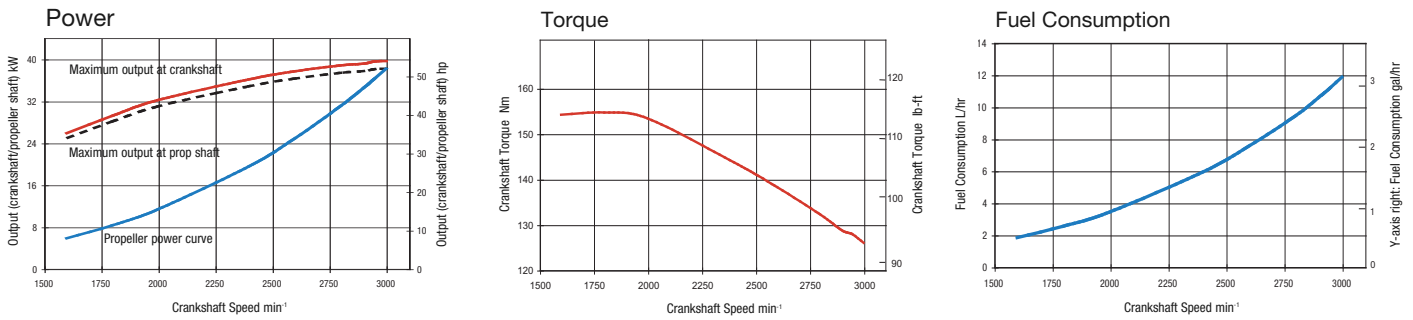


**Right side view**



4JH4E w/ KM35A marine gear

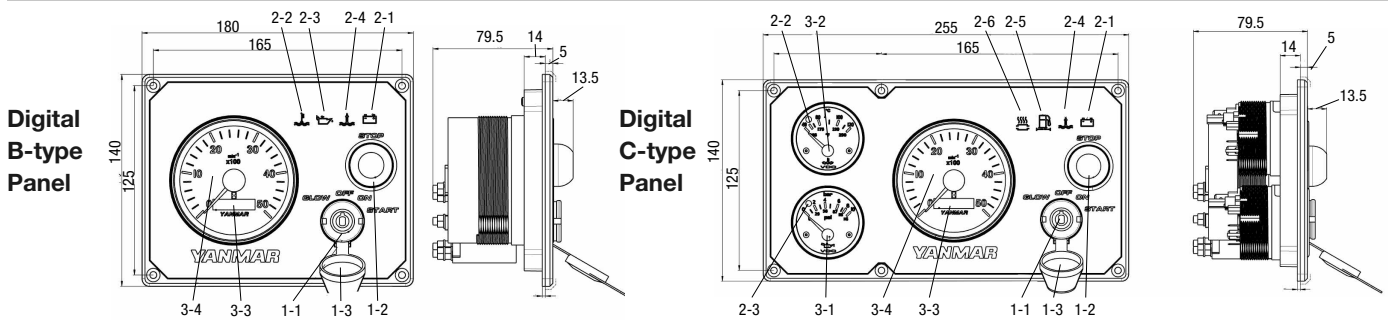
## Performance Curves (Output is according ISO 8665 - Output includes +/- 3% tolerance)



## Marine Gears/Drive

Model	KM35P	ZF30M	KM35A2 (down angle : 7)	KM4A1(down angle: 7)	Saildrive (SD50)
Type	Mechanical cone clutch	Mechanical Multi Plate clutch	Mechanical cone clutch	Mechanical cone clutch	Mechanical cone clutch
Dry weight	12 kg (27 lbs)	28 kg (61 lbs)	13 kg (29 lbs)	28 kg (61 lbs)	40 kg (88 lbs)
Reduction ratio (fwd/asn)	2.36/3.16 2.61/3.16	2.15/2.64 2.70/2.64	2.33/3.04 2.64/3.04	1.47/1.47 2.14/2.14 2.63/2.63 3.30/3.30	2.32/2.32
Propeller speed(fwd/asn)	1232/921 1114/921	1353/1103 1078/1103	1246/955 1103/955	1983/1983 1360/1360 1106/1106 882/882	1253/1253
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from stern	Clockwise viewed from stern	Clockwise viewed from stern	Clockwise & counter clockwise viewed from stern	Clockwise & counter clockwise viewed from stern
Dry weight engine and gear/drive	212 kg (467 lbs)	228 kg (502 lbs)	213 kg (470 lbs)	228 kg (502 lbs)	240 kg (529 lbs)
Length engine and gear/drive	871 mm (34 in)	950 mm (37 in)	864 mm (34 in)	922 mm (36 in)	1067 mm (42 in)

## Instrument Panels



Function	Type of instrument panel	
	Digital B-type Panel	Digital C-type Panel
① <b>Switch unit</b>		
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 <b>Alarm lamp unit</b>		
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 <b>Meters</b>		
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 <b>Audible alarm buzzer</b>	O	O

Note: O = Equipped on panel X = Not equipped on panel \*function not available for 4JH4E natural aspiration engines

## Accessories

### Standard Package

- Set of flexible mounting
- Exhaust/water mixing elbow (L-type)
- V-belt cover
- 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
- Primary 80 A alternator or second 60/80 A alternator
- 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.