



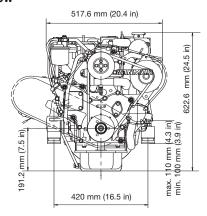
Yanmar type 3JH4E The Powerful Gem



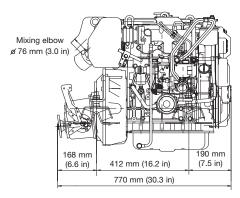
Configuration	4-stroke, vertical, water cooled diesel engine		
Maximum output at crankshaft	* 29.4 kW (40 hp) / 3000 rpm ** 28.7 kW (39 hp) / 3000 rpm		
Continuous rating output at crankshaft	26.7 kW (36.3 hp) / 2907 rpm		
Displacement	1.640 L (100 cu in)		
Bore x stroke	88 mm x 90 mm (3.46 in x 3.54 in)		
Cylinders	3		
Combustion system	Direct injection		
Aspiration	Natural aspiration		
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	173 kg (381 lbs)		
Environmental	BSO II, SAV, EPA II, EMC compliant and will meet the 2003/44/EC emission requirements to be effective from 2006		
Engine mounting	Rubber type flexible mounting		

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

Front view



Right side view

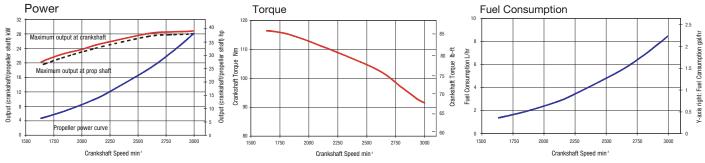


3JH4E w/ KM35A marine gear



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)

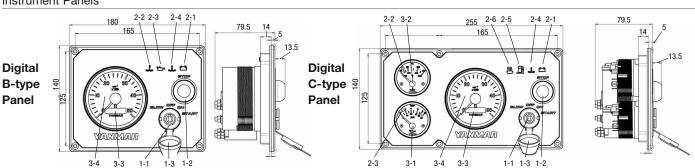
^{**}Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)



Marine Gears/Drive

Model	KM35P		KM35A (down angle: 7)		Saildrive (SD50)
Type	Mechanical cone clutch		Mechanical cone clutch		Mechanical cone clutch
Dry weight	12 kg (2	7 lbs)	13 kg (29 lbs)		40 kg (88 lbs)
Reduction ratio (fwd/asn)	2.36/3.16	2.61/3.16	2.33/3.04	2.64/3.04	2.32/2.32
Propeller speed(fwd/asn)	1231/921	1114/921	1246/955	1103/955	1253/1253
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from stern			clockwise from stern	Clockwise & counter clockwise viewed from stern
Dry weight engine and gear/drive	185 kg (408 lbs)		186 kg (410 lbs)		213 kg (470 lbs)
Length engine and gear/drive	777 mm (31 in)		776 mm (31 in)		973 mm (38 in)

Instrument Panels



		Type of instrument panel		
Function		Digital B-type Panel	Digital C-type Panel	
1 Swi	vitch unit	, , , , , , , , , , , , , , , , , , ,		
1-1 Key	y switch for GLOW/OFF/ON/START (4-position switch)	О	0	
1-2 Pus	sh button switch for engine stop	0	0	
1-3 Moi	pisture cap for key switch	0	0	
2 Alaı	arm lamp unit			
2-1 Batt	ttery low charge alarm	0	0	
2-2 Coc	olant high temperature alarm	0	0	
2-3 Lub	bricating oil low pressure	0	0	
2-4 Wat	ater in sail drive seal alarm	0	0	
2-5 Wat	ater in fuel filter alarm	X	0*	
2-6 Sea	a water insufficient flow alarm	X	0*	
3 Met	eters			
3-1 Lub	bricating oil pressure meter	X	0	
3-2 Coc	olant temperature meter	X	0	
3-3 Hou	our meter	0	0	
3-4 Tac	chometer	0	0	
4 Auc	dible alarm buzzer	0	0	

Note: O = Equipped on panel X = Not equipped on panel *function not available for 3JH4E 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.

