

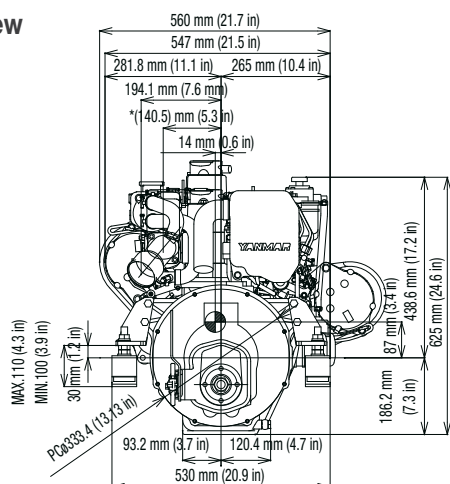
4JH5E Series

Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 39.6 kW (53,1 mhp) / 3000 rpm
Continuous rating output at crankshaft	36.0 kW (48,3 mhp) / 2907 rpm
Displacement	2.19 L (134 cu in)
Bore x stroke	88 mm x 90 mm (3.46 in x 3.54 in)
Cylinders	4 in line
Combustion system	Direct injection
Aspiration	Natural aspiration
Starting system	Electric starting 12 V
Alternator	12 V - 80 A
Cooling system	Fresh water cooling by centrifugal water pump and rubber impeller sea water pump
Lubrication system	Enclosed, forced lubricating system
Direction of rotation (crankshaft)	Counter clockwise viewed from flywheel side
Dry weight without gear	201 kg (443 lbs)
Environmental	EU RCD, EPA TIER 3, EMC
Engine mounting	Rubber type flexible mounts

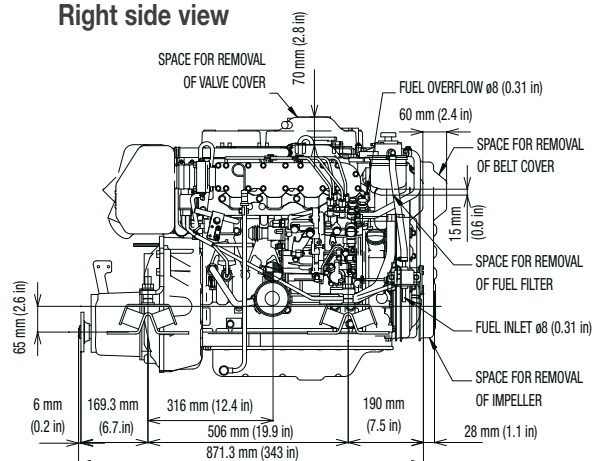
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm³
 Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665:2006)

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

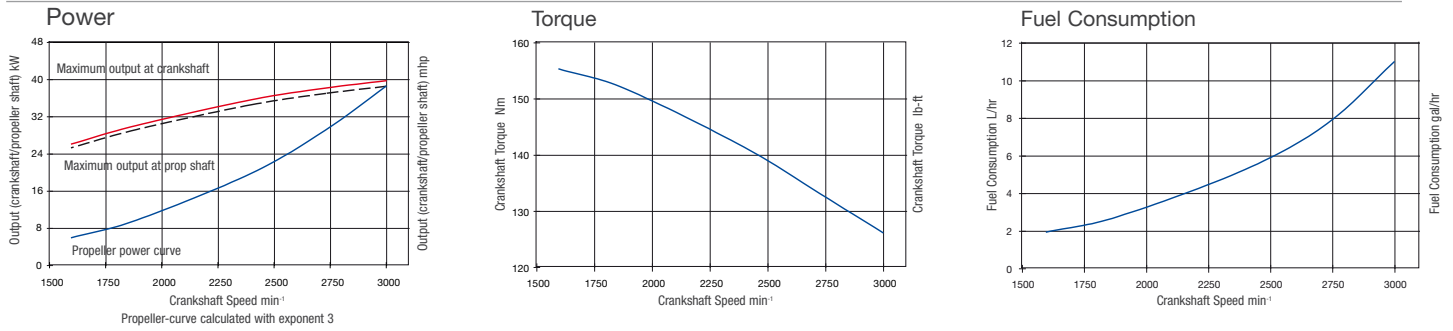
Rear view



Right side view



Performance Curves (Output is according ISO 8665)



Marine Gears/Drive

Model	KM35P		KM35A2 (down angle: 7deg)		KM4A1 (down angle: 7deg)			ZF30M		Saildrive SD50
Type	Mechanical cone clutch		Mechanical cone clutch		Mechanical cone clutch			Mechanical multy disc		Mechanical cone clutch
Dry weight	12 kg (27 lbs)		13 kg (29 lbs)		29 kg (64 lbs)			28 kg (61 lbs)		40 kg (88 lbs)
Reduction ratio (fwd/asn)	2.36/3.16	2.61/3.16	2.33/3.06	2.64/3.06	1.47/1.47	2.14/2.14	2.63/2.63	2.15/2.64	2.70/2.64	2.32/2.32
Propeller speed(fwd/asn)	1271/949	1149/949	1288/980	1136/980	2041/2041	1402/1402	1141/1141	1395/1136	1111/1136	1293/1293
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from stern		Clockwise viewed from stern		Clockwise viewed from stern			Clockwise viewed from stern		Clockwise & counter clockwise viewed from stern
Dry weight engine and gear/drive	213 kg (469.5 lbs)		214 kg (471.7 lbs)		214 kg (471.7 lbs)			229 kg (505 lbs)		241 kg (531 lbs)
Length engine and gear/drive	871 mm (34.3 in)		864 mm (34.0 in)		922 mm (36.3 in)			950 mm (37.4 in)		1067 mm (42.0 in)

Instrument Panels



Digital B-panel and C-panel with keyswitch	Digital B-panel and C-panel keyless
Keyswitch	Sealed rocker switch for engine on/start
Stop Button	Sealed rocker switch for glow function
Tachometer with hour	Tachometer with hour
Indication (display)	Indication (display)
Audible alarm	Audible alarm
Alarm lights	Alarm lights
Battery low charge	Battery low charge
Coolant High temperature	Coolant High temperature
Lubricating oil low pressure	Lubricating oil low pressure
Water in saildrive seal	Water in saildrive seal
Extra for all C-panels: Coolant temperature gauge, Lubricating oil pressure gauge	

Accessories

Standard Features

- Set of flexible engine mounts
- Exhaust mixing elbow (L-type)
- V-belt safety cover
- Fresh water expansion tank
- Alternator 12 V - 80 A
- Electric stop solenoid
- Operation manual

Optional

- Digital B panel keyless
- Digital C panel with key switch or key less
- Second Alternator 12V80A, 12V130A or 24V75A
- High riser mixing Elbow (Instead of L-Elbow)
- 4M, 6M, 10M Extension Wire harness
- Hot water kit with cocks
- Second station harness