



MARINE COMMON RAIL ENGINES

4JH Series - 80 / 110

Configuration	In-line, 4-stroke, vertical, water-cooled diesel engine					
Max. output at crankshaft*	58.8 kW@3200 rpm 80.9 kW@3200 rpm	[80 mhp@3200 rpm] [110 mhp@3200 rpm]				
No. of cylinders	4 cylinder					
Displacement	2.000 L	[1.22 cu in]				
Bore x stroke	84 mm x 90 mm	[3.31 in x 3.54 in]				
Aspiration	Turbocharged & intercooled					
Combustion system	Direct injection, Bosch common rail system					
Starting system	Electric starting 12V - 1.4 kW					
Engine management	Electronic					
Cooling system	Fresh water cooling by centrifugal fresh water pump Seawater cooling by rubber impeller seawater pump					
Alternator	12V - 125A					
Lubrication system	Enclosed, forced lubricating system					
Engine lube oil specifications	API class: CD or higher, SAE grade: 10W-30 or 15W-40					
Direction of rotation at crankshaft	Counterclockwise (CCW) viewed from stern					
Dry weight without gear	229 kg [505	5 lbs]				
Engine dimensions ^{\dagger} L x W x H	909 x 613 x 675 mm					
Emission compliance	EU: RCD 2, BSO II, EMC	US: EPA Tier 3, EPA-C				
Flywheel housing size	SAE #4					
Controls	Mechanical (optional - VC20 system)					

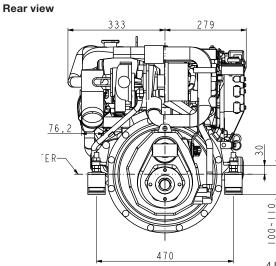
NOTE: Fuel condition: Density at 15° C = 0.84 g/cm³: 1 kW = 1.3596 mhp = 1.3410 HP

Technical data is according to (ISO 8665) / (ISO 3046)

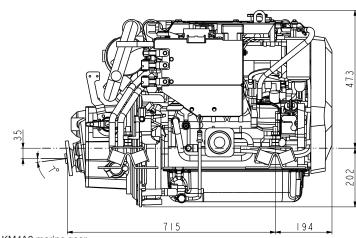
* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]

†Length includes KM4A2 marine gear (Dimensions may vary with other gears, drives or elbow)

DIMENSIONS



Right side view



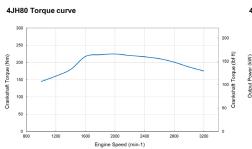
4JH80/110 with KM4A2 marine gear (Not to be used for engine installation)

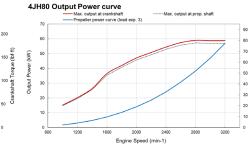
www.yanmar.com/marine





PERFORMANCE CURVES

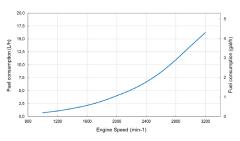


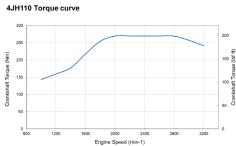


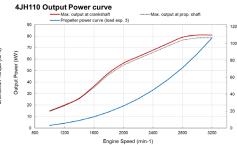
4JH80 Fuel consumption (propload exp 3.0)

Output Power (mhp)

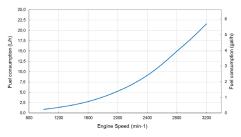
Output Power (mhp)











MARINE GEAR / DRIVE*

Model	KMH4A [down	n angle: 8°]	KM4A2 [down angle: 7°]		ZF25A [down angle: 8°]		ZF30M [parallel]		Saildrive [SD60]**		Saildrive [SD15]	
Clutch type	Hydraulic m	nulti disc	Mechanical cone clutch		Hydraulic multi disc		Mechanical multi-disc		Mechanical multi-disc		Hydraulic multi disc	
Dry weight	30 kg [66	30 kg [66 lbs] 28.5 kg [63 lbs]		33 kg [73 lbs]		28 kg [62 lbs]		44 kg [97 lbs]		90 kg [198]		
Reduction ratio [fwd/asn]	2.04/2.04	2.45/2.45	1.47/1.47	2.14/2.14	2.63/2.63	1.93/1.93	2.80/2.80	2.15/2.64	2.70/2.64	2.23/2.23	2.49/2.49	2.51/2.51
Direction of rotation [viewed from stern]	Clockwise & counterclockwise						Cloc	kwise	Clockwise & counterclockwise			
Lubrication system	Forced lubrication Splash lubrication			Forced Iu	ubrication	Splash lu	Ibrication	Splash lubrication		Oil bath		
Lube oil specifications	API class: CD or higher, SAE grade: #20 or #30			ATF			API class: CD or higher, SAE grade: 15W-40		ATF			
Max. lube oil capacity	2.0	L		2.0 L		1.3	B L	1.1	1 L	2.8	B L	6 L
Dry weight - engine & gear	259 kg [5	71 lbs]	257.5 kg [568 lbs]		262 kg [578 lbs]		257 kg [567 lbs]		273 kg [602 lbs]		319 kg [703 lbs]	

* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information. ** Not for 4JH110

ACCESSORIES

Standard engine package

- Exhaust mixing elbow [L-type]
 Alternator 12V 125A
- Seawater pump rear mounted
- B25 panel
- Flexible mounts
- Mechanical throttle sensor
- Fuel pre-filter with water separator
- Fresh water expansion tank
- Belt safety cover

Optional

- High-riser mixing elbow [instead of L-elbow]
- Secondary alternator 12V 125A or 24V 60A
- Seawater pump front mounted
- C35 panel
- Extension harness [3m, 5m, 10m]
- Second station
- Sidemount control head
- VC20 Vessel Control System

- NMEA2000 Engine monitoring system
- Semi 2-pole
 - SOLAS including Certificate [factory fit only]
 - Opposite dipstick
 - Hot water kit with cocks
 - Extension saildrive leg [75 mm]
 - Propeller cone nut kit SD60
 - On-board spare parts kit

NOTE: All data subject to change without notice. Text and illustrations are not binding.