Yanmar type 3YM20



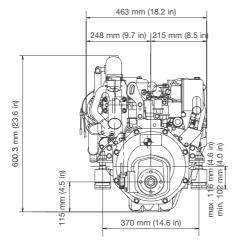


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Configuration	4-stroke, vertical, water cooled diesel engine	
Maximum output at crankshaft	* 15.3 kW (21 mhp) / 3600 rpm	
Continuous rating output at crankshaft	14.7 kW (20 mhp) / 3489 rpm	
Displacement	0.854 L (52.1 cu in)	
Bore x stroke	70 mm x 74 mm (2.8 in x 2.9 in)	
Cylinders	3	
Combustion system	Indirect injection	
Aspiration	Natural aspiration	
Starting system	Electric starting 12 V - 1.4 kW	
Alternator	12 V - 60 A	
Cooling system	Fresh water cooling with heat exchanger	
Lubrication system	Enclosed, forced lubricating system	
Direction of rotation (crankshaft)	Counter clockwise viewed from flywheel side	
Dry weight without gear	120 kg (265 lbs)	
Environmental	EU RCD, US EPA Tier2, BSO II & EMC	
Engine mounting	Rubber type flexible mounting	

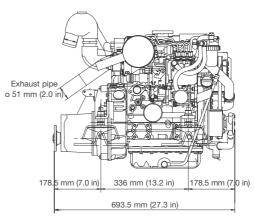
NOTE: Fuel condition: Density at 15° C = 0.84 g/cm 3 ; 1kW = 1.3596 mhp = 1.3410 HP * Fuel temperature 40° C at the inlet of the fuel injection pump (ISO 8665) Technical data is according to ISO 8665 / 3046

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

Front view



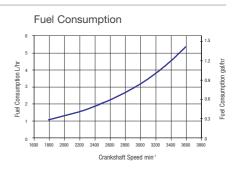
Right side view



3YM20 with KM2P-1 marine gear





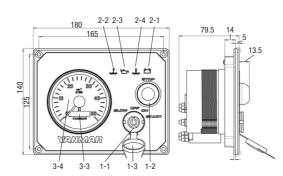


Marine Gears/Drive

Model	KM2P-1			Saildrive (SD20)
Туре	Constant mesh gear with servo-cone clutch			Constant mesh gear with dog clutch
Dry weight	10 kg (22 lbs)			30 kg (66 lbs)
Reduction ratio (fwd/asn)	2.21/3.06	2.62/3.06	3.22/3.06	2.64/2.64
Propeller speed (fwd/asn)	1629/1176	1374/1176	1118/1176	1364/1364
Direction of rotation (propeller shaft - fwd)	Clockwise viewed from flywheel side			Counter clockwise viewed from flywheel side
Dry weight engine and gear/drive	130 kg (287 lbs)			151 kg (333 lbs)
Length engine and gear/drive	693 mm (27 in)			873 mm (34 in)

Instrument Panels

Digital B-type Panel



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

Note: O = Equipped on panel X = Not equipped on panel

Accessories

Standard Package

- Set of flexible mounts
- Exhaust mixing elbow (L-type)
- V-belt safety cover
- Expansion tank for fresh water cooling system
- Alternator 12 V 60 A
- Electric stop solenoid

Optional

- Digital B Panel Horizontal (Key switch or Rocker switch Keyless)
- 3M / 6M Extension Wire harness
- High Riser Mixing Elbow (Instead of L-Elbow)
- Alternator 80A + Belt Cover (Instead of 60A)
- Hot Water Kit 90/180 W/O Cock
- Hot Water Kit 90/180 Cocks
- Dual Harness (For 2nd Station)
- Cone Nut Kit SD20 (For SD20)

Texts and illustrations are not binding. Yanmar Marine reserves the right to introduce adaptations without prior notification.

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