

MARINE DIESEL ENGINES

PLEASURE-CRAFT POWER

3GM30(V)
20.1kW (27.3hp)

YANMAR

The engine with a Built-in 20% boost of power

Ups Power, Stays Trim

We've put more punch into our popular 3GM and kept its ideal proportions in creating the new 3GM30. Power jumps by 20%, giving an extra surge to carry the 3GM30 into a whole lot wider range of boats. Boat owners will get more from their motor, without getting more motor.

Smooth, Clean and Quiet

Comparative tests and actual user reports prove the GM series are more acceptable inboards than equivalent engines. The greater piston bore of the 3GM30 delivers more boost yet still excels in quiet and smooth running from idling to top revs. Emission levels became lower.

More Efficient Electrics

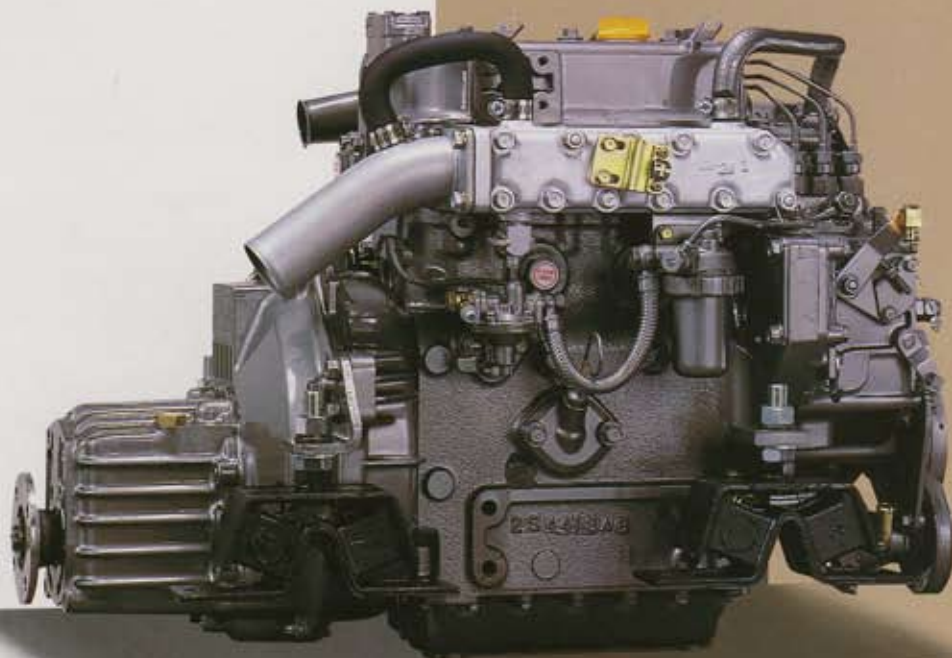
The alternator is highly uprated to 55 amps, providing ample current for auxiliary electric power from the battery and a strong source for charging.

Greater Power from the Prop

With the increase in horsepower the builder can equip the boat with a larger propeller or a more dynamic pitch to give extra thrust without extra bed space or redesigning.

V-Drive Gear

Where fore-aft space is limited this new V-drive Marine Gear KM3V compactly and neatly solves the problem. It has a drive angle of 15° and a choice of reduction gears — 2.36, 2.61, and 3.20.



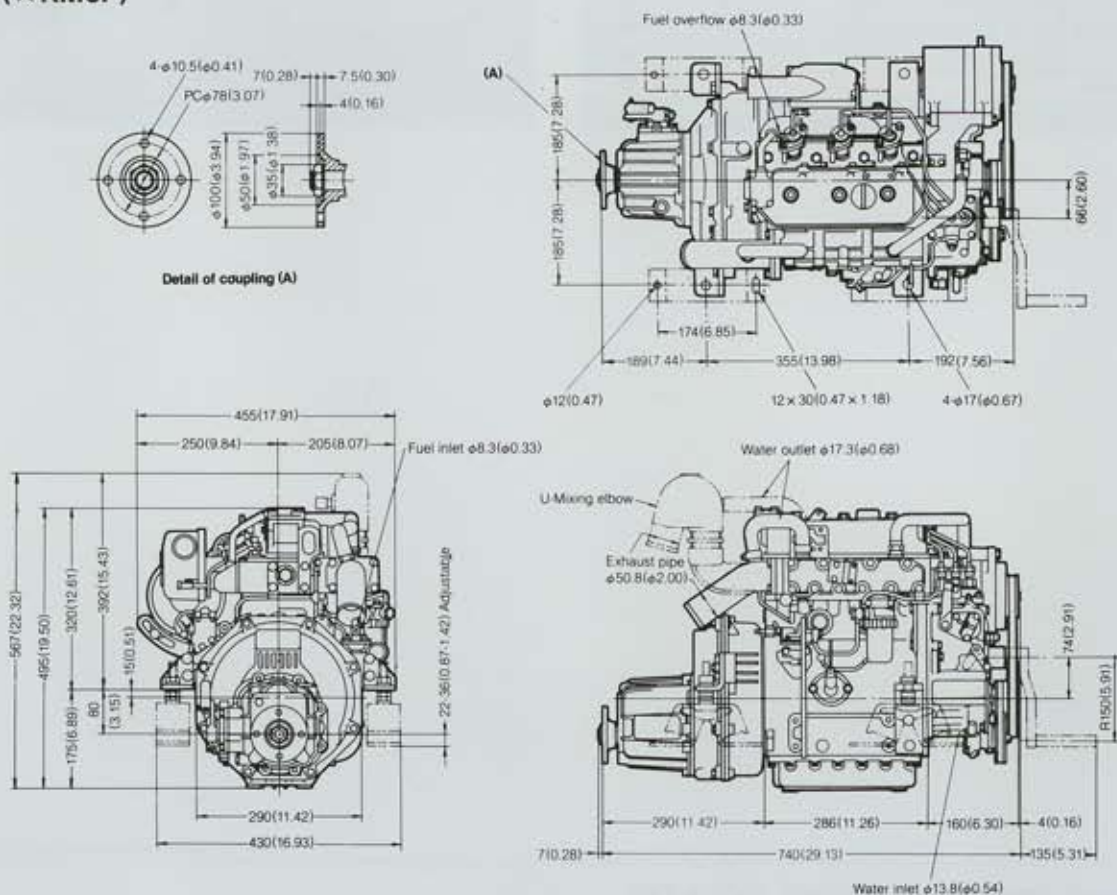
SPECIFICATIONS

Model		3GM30	
Configuration		4-Stroke	
Number of cylinders		4	
Bore × stroke		mm (in.)	
Displacement		ℓ (cu.in.)	
Continuous rating output at crankshaft		kW/rpm (hp/rpm)	
Maximum output at crankshaft		kW/rpm (hp/rpm)	
Combustion system		Supercharged	
Starting system		Electrical with manual cranking	
Cooling system		Direct seawater	
Lubrication system		Dry sump	
Reduction and reversing gear	Model	KM3P	
	Type	Compound	
	Reduction ratio (Ahead/Astern)	2.36/3.16	2.61/3.16
	Propeller speed at continuous rating (Ahead) rpm	1441	1303
Direction of rotation	Crankshaft	Counterclockwise, viewed from the front	
	Propeller shaft	Clockwise, viewed from the front	
Dry weight		kg (lbs)	130 (286)

Rating condition: ISO-3046/1 [Note]: hp ≅ 0.7355kW

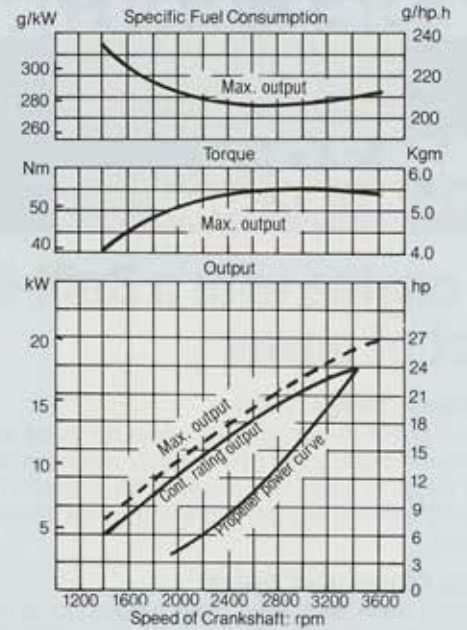
DIMENSIONS Unit: mm (in.)

3GM30 (× KM3P)



3GM30		3GM30V		
4-stroke, vertical, water cooled diesel engine				
3				
75 × 72 (2.95 × 2.83)				
0.954 (58.22)				
17.7/3400 (24.1/3400)				
20.1/3600 (27.3/3600)				
Special swirl type pre-combustion chamber				
Optional manual combination (D.C. 12V-1.0kW starting motor, 12V-55A Alternator)				
Direct seawater cooling rubber impeller seawater pump				
Forced lubrication with trochoid pump				
KM3P		KM3V (V-drive)		
Constant mesh gear with servo-cone clutch				
2.61/3.16	3.20/3.16	2.36/3.16	2.61/3.16	3.20/3.16
1303	1063	1441	1303	1063
Counter-clockwise, viewed from stern		Clockwise, viewed from stern		
Clockwise, viewed from stern		Clockwise, viewed from stern		
130 (286)		138 (303)		

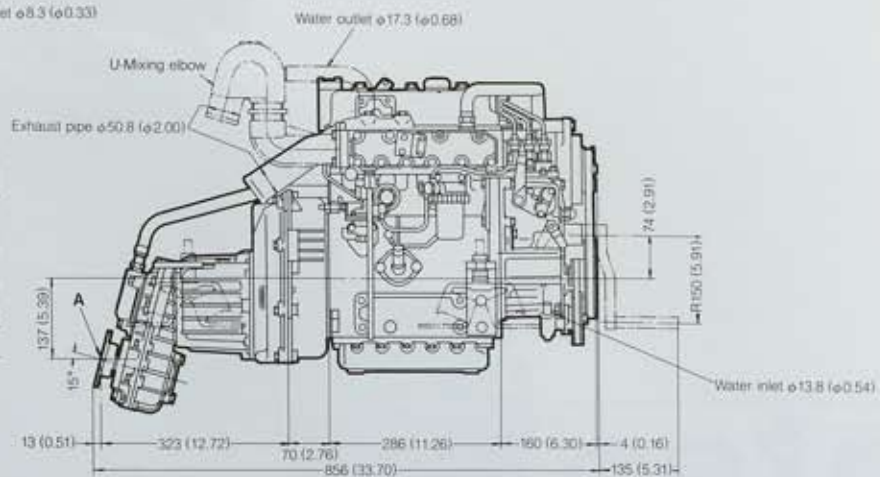
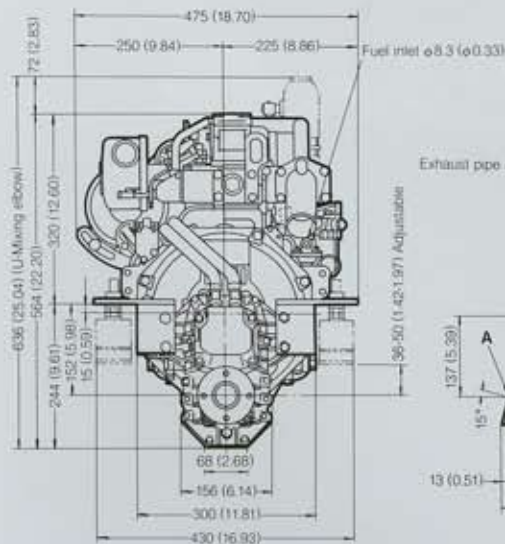
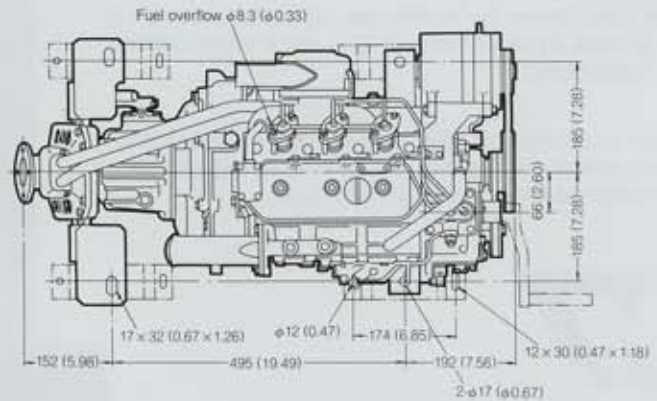
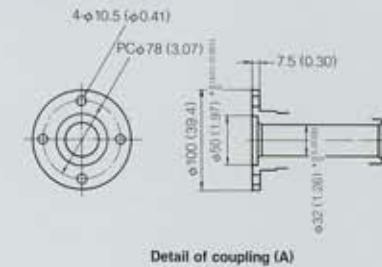
PERFORMANCE CURVES



Note:

- Above data are measured at crankshaft and show the average performance as tested at our laboratory.
- Power loss of the marine gears are as follows: KM2P-1%, KM3V-1.5%.

3GM30V (× KM3V)



ACCESSORIES

Standard: ○ Option: ▲

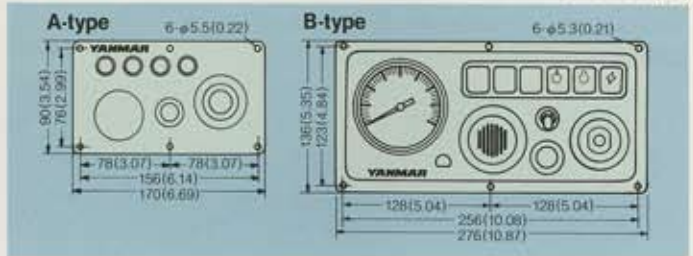
Item	Name		Remarks
Installation	Flexible engine mount	○	
	Propeller shaft half coupling (Slit type)	▲	φ20
	Propeller shaft half coupling (Taper type)	▲	φ28 or 30
	Propeller shaft half coupling (Straight rough bore)	▲	φ16
Fuel	Fuel tank with pipe (30//2m)	▲	
Cooling	Exhaust water mixing elbow, L-type	○	
	Exhaust water mixing elbow, U-type	▲	
	Kingston cock	▲	
Lubrication	Lube oil evacuation pump	▲	
Starting and stopping	Engine stop cable (Manual)	▲	3m
Electrical & Instrumentation	Alternator, 12V	▲	35A
	Electric type bilge pump, 12V	▲	
	A-type instrument panel	▲	
	B-type instrument panel	▲	
	Extension wire harness	▲	3m
	Battery switch	▲	
	Two pole wire harness for Eng.	▲	
	Two pole alarm switch ass'y for A & B-type	▲	
Control	Push-pull type remote control cable, 2pcs/unit. (MORSE: 33C)	▲	4m
	Side-mount type single control head. (MORSE: MV)	▲	
	Top-mount type single control head. (MORSE: MT3)	▲	
Others	Spare parts kit	▲	
	Special overhauling tools (for engine)	▲	
	Special overhauling tools (for marine gear)	▲	

INSTRUMENT PANEL

Available: ● Not available: —

		A-type	B-type
1.	Key switch	●	●
2.	Push button switch for starting	●	●
3.	Alarm buzzer	●	●
4.	Alarm lamps	C.W. temp., L.O. pressure	●
		Battery not charging	●
		C.W. high temperature	●
	L.O. low pressure	●	●
5.	Tachometer	—	●
6.	Tachometer illumination switch	—	●

Unit: mm (in.)



Note: All data subject to alteration without notice.

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