

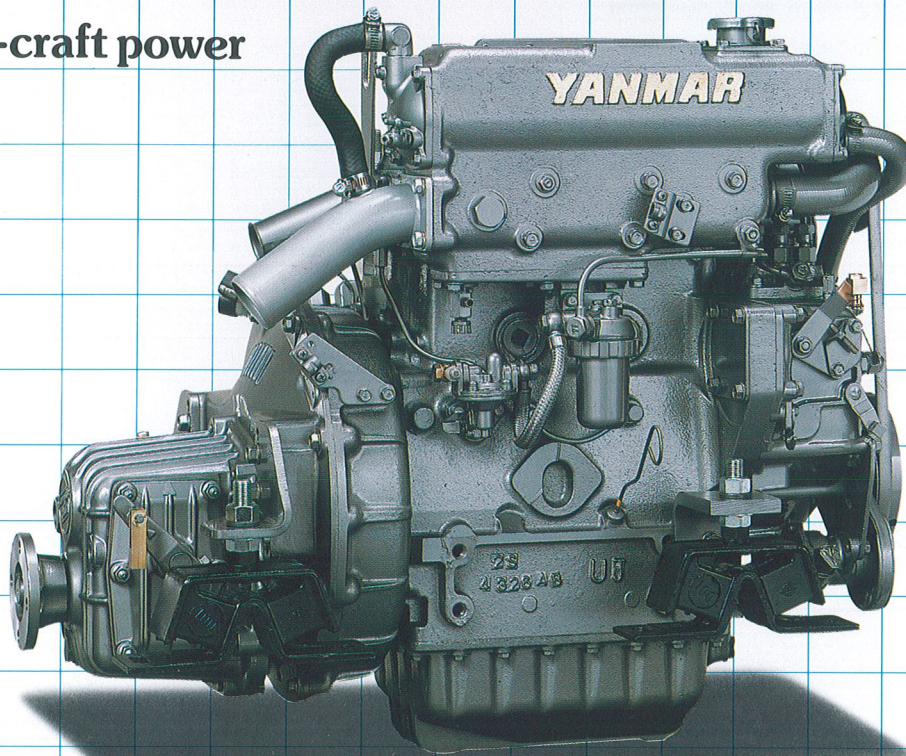
YANMAR

MARINE DIESEL ENGINES

3HM35F

34 hp (25.4kW)

Pleasure-craft power



The Big Boat Inboard with Pepped-Up Power

Ups Power, Stays Trim

We've put more punch into our popular 3HM and kept its ideal proportions in creating the new 3HM35F. Power jumps by 13%, giving an extra surge to carry the 3HM35F 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 HM series are more acceptable inboards than equivalent engines. The greater piston bore of the 3HM35F delivers more boost yet still excels in quiet and smooth running from idling to

top revs. Emission levels are the lowest in the history of this class of engine, and the 3HM35F exhaust is soot-free.

More Efficient Electrics

The alternator is highly updated 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.

Fresh Water Cooling Designed In

With a fresh water cooling system as an integrated part of this engine it becomes more durable and can readily be adapted for an on-board hot water system.



SPECIFICATIONS

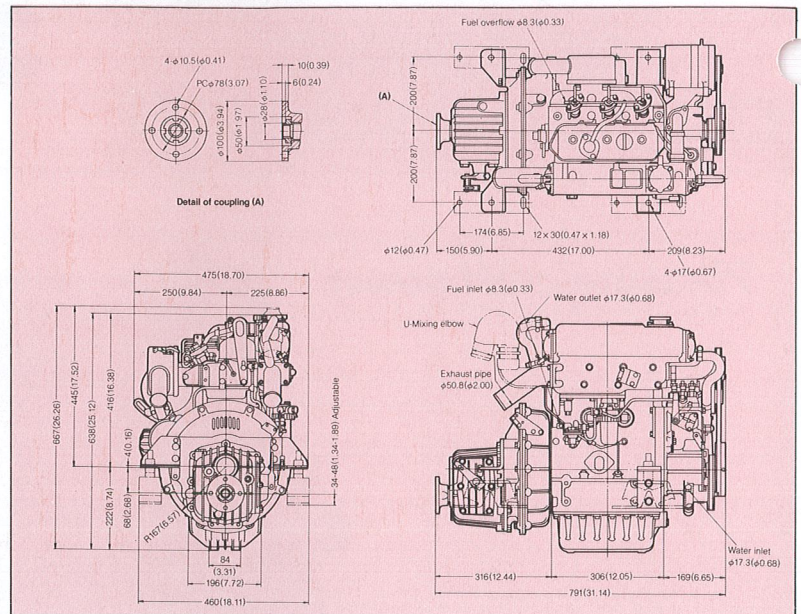
Model	3HM35F													
Configuration	4-stroke, vertical, water cooled diesel engine													
Number of cylinders	3													
Bore × stroke	mm (in.) 80 × 85 (3.15 × 3.35)													
Displacement	ℓ (cu.in.) 1.282 (78.23)													
Continuous rating output	hp/rpm (kW/rpm) 30/3200 (22.4/3200)													
Maximum output	hp/rpm (kW/rpm) 34/3400 (25.4/3400)													
Combustion system	Special swirl type pre-combustion chamber													
Starting system	Electric (D.C. 12V-1.8kW starting motor, 12V-55A A.C. Generator)													
Cooling system	Fresh water cooling with heat exchanger													
Lubrication system	Forced lubrications with trochoid pump													
Reduction and reversing gear	<table border="1"> <tr> <td>Model</td> <td colspan="2">KBW10E</td> </tr> <tr> <td>Type</td> <td colspan="2">Constant mesh gear with multi disc clutch</td> </tr> <tr> <td>Reduction ratio (Ahead/Astern)</td> <td>2.14/2.50</td> <td>2.83/2.50</td> </tr> <tr> <td>Propeller speed (Ahead) (at continuous rating)</td> <td>rpm 1498</td> <td>1129</td> </tr> </table>		Model	KBW10E		Type	Constant mesh gear with multi disc clutch		Reduction ratio (Ahead/Astern)	2.14/2.50	2.83/2.50	Propeller speed (Ahead) (at continuous rating)	rpm 1498	1129
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Propeller speed (Ahead) (at continuous rating)	rpm 1498	1129												
Direction of rotation	Counterclockwise, viewed from stern													
Crankshaft	Counterclockwise, viewed from stern													
Propeller shaft	Clockwise, viewed from stern													
Dry weight	kg (lbs)	167 (368)												

ACCESSORIES

	Standard: ○ Option: ▲		Remarks
	Quantity		
Installation			
Flexible mount	4	○	
Propeller shaft half coupling, underbored (Slit)	1	▲	φ20
Propeller shaft half coupling (Taper)	1	▲	φ28 or 30
Fuel			
F.O. tank and pipe	1	▲	30ℓ, 2m
F.O. filter, paper element type	1	○	
F.O. lift pump, mechanical type	1	○	
Cooling			
Seawater pump, rubber impeller type	1	○	
Fresh water pump, centrifugal type	1	○	
Temperature switch	1	○	
Thermostat	1	○	
Kingston cock & strainer with hose	1	▲	1m
Heat exchanger	1	○	
Fresh water reservoir	1	○	
Lubricating			
L.O. filter	1	○	
Pressure switch	1	○	
Evacuation pump	1	▲	
Bilge			
Bilge pump, electrical type	1	▲	
Air intake and exhaust			
Air intake silencer	1	○	
Water mixing elbow, L-type	1	○	
Water mixing elbow, U-type	1	▲	
Starting			
Starting motor, 12V-1.8kW	1	○	
A.C. Generator, 12V-55A	1	○	
A.C. Generator, 12V-35A	1	▲	
Instrumentation and electrical			
A-type instrument panel with cable harness	1	▲	3m
B-type instrument panel with cable harness	1	▲	3m
Cable harness, extension	1	▲	3m
Battery switch	1	▲	
Control			
Single lever control head, Side mount type	1	▲	MV
Single lever control head, Top mount type	1	▲	MT-2
Push-pull cable	2	▲	33C, 4m
Engine stop cable	1	▲	3m
Others			
On board tool kit	1 set	○	
On board spare parts kit	1 set	▲	
Packing kit	1 set	▲	
Overhauling tools	1 set	▲	

DIMENSIONS

Unit = mm Figures in parentheses = inch

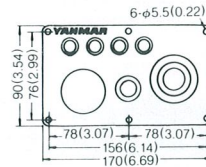


Instrument panel

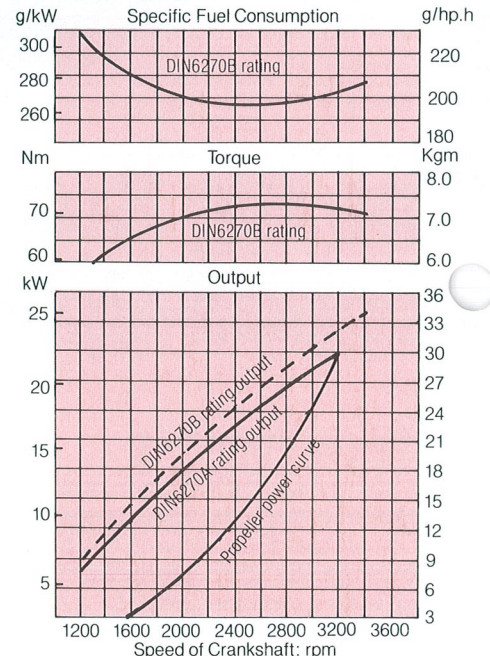
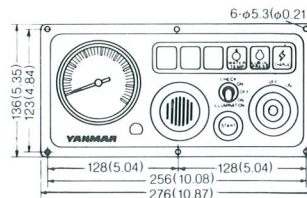
	Available: ● Not available: —	
	A-type	B-type
1. Key switch	●	●
2. Push button switch for starting	●	●
3. Alarm buzzer	●	●
4. Alarm lamps	L.O. C.W., Battery	●
	L.O. pressure low	●
5. Tachometer, electrical type	C.W. temperature high	●
	Battery no-charging	●
6. Tachometer illumination switch	—	●

PERFORMANCE CURVES

A-type



B-type



Note: 1. Output, engine torque and specific fuel consumption are measured at the marine gear. The engine flywheel output is approx. 3% higher.
2. These curves show the average performance of respective engines in test operation at our plant.

Note: All data may be subject to alteration without notice.

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