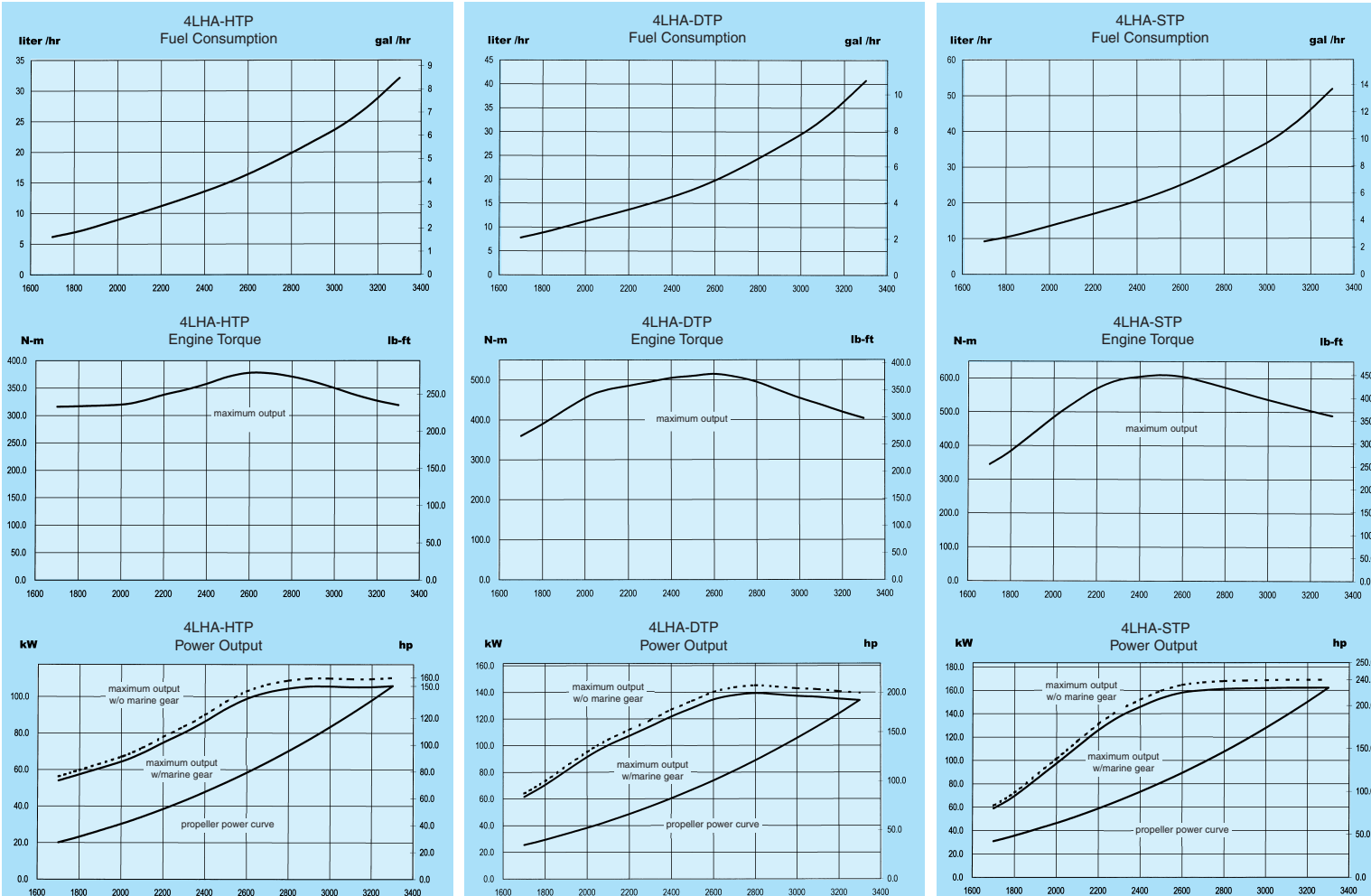


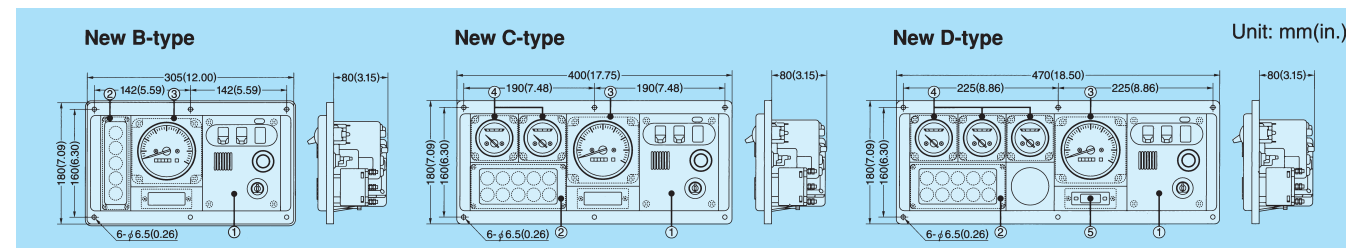
PERFORMANCE CURVES



Load factor calculation based on an exponent of 3.0.

INSTRUMENT PANELS

		New B-type	New C-type	New D-type
①	Switch	Key switch (Starter switch)	●	●
		Engine stop switch	●	●
		Alarm buzzer (C.W. temp., L.O. pressure)	●	●
		Alarm buzzer stop switch	●	●
		Illumination switch for meters	●	●
		Battery not charging	●	●
②	Alarm lamp unit	C.W. high temperature	●	●
		L.O. low pressure	●	●
		Boost pressure high (for 4LHA-STE)	●	●
		Tachometer with hour meter	●	●
③	Tachometer	L.O. pressure meter	●	●
		C.W. temperature meter	●	●
④	Sub meter unit	Boost meter (Turbo)	●	●
		Quartz clock	—	●



Note: All data subject to alteration without notice.

YANMAR DIESEL AMERICA CORP. 901 Corporate Grove Drive, Buffalo Grove, IL 60089

YANMAR EUROPE B.V. Brugplein 11 1332 BS Almere-de Vaart, The Netherlands

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MARINE DIESEL ENGINES

PLEASURE-CRAFT POWER

4LHA-HTP
118kW(160hp)

4LHA-DTP
147kW(200hp)

4LHA-STP
177kW(240hp)

YANMAR

The best engine in its class just got "better"

The high power configuration comfortably allows the 4LHA to stand world class in all three main areas of comparison namely:

- power-to-weight ratio
- power-to-displacement ratio
- power for a given set of engine dimensions

The 4LHA is designed for use with a variety of marine gearboxes, including straight, angled and vee-drive units. The turbocharger has a waste-gate boost compensator which improves acceleration (4LHA-STP).

Environmentally Engineered

This engine shares all the benefits of Yanmar's commitment to protecting the environment in which we live. Features such as:

- low noise, low vibration, highly economical use of fuel.
- low smoke, especially when accelerating or idling.

Vibration has been kept at a low level due to the use of special steels in the block and other critical areas.

Wide Range of Applications

Being substantially slimmer configuration means easy installation and easy serviceability, even in tight locations. Repowering in most instances is straight-forward; the total package being slimmer, shorter and less bulky than previous models.



IMO Compliant

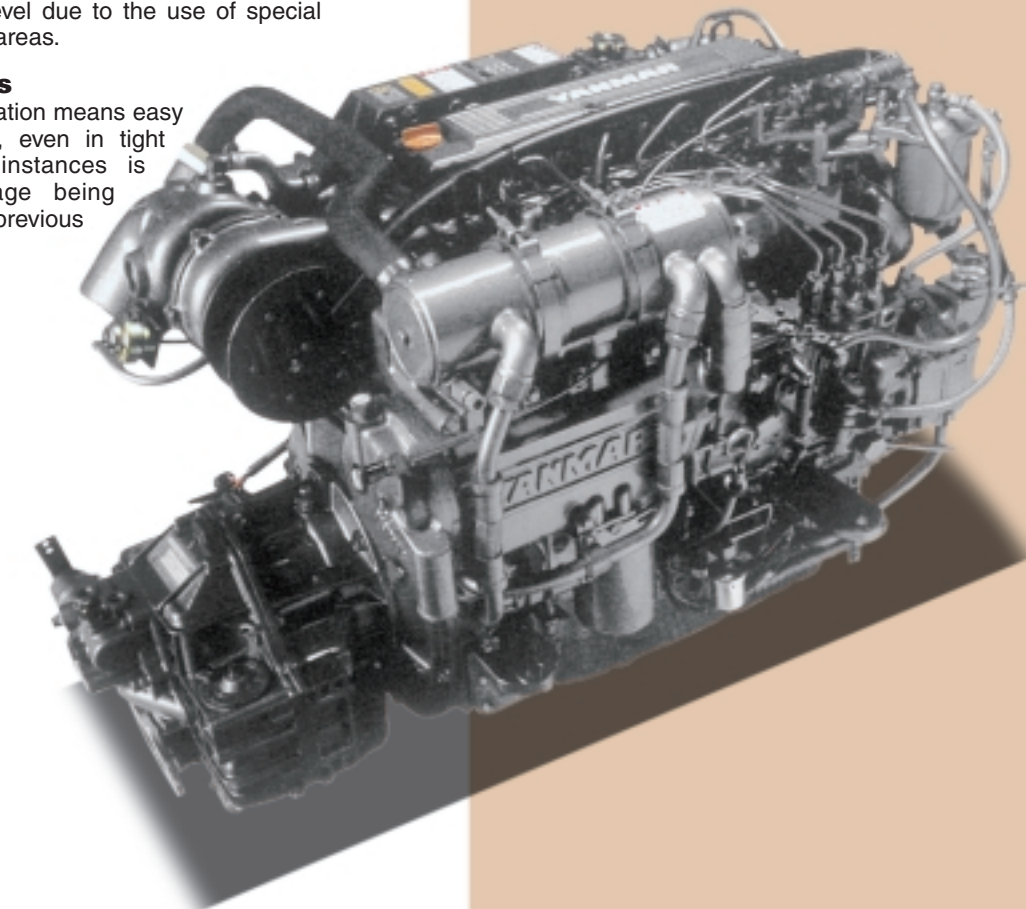


Photo may show optional equipment

SPECIFICATIONS

Model		4LHA-HTP	4LHA-DTP	4LHA-STP
Configuration		4-stroke, vertical, water cooled diesel engine		
Number of cylinders		4 in-line		
Bore x Stroke	mm (in.)	100 X 110(3.94 X 4.33)		
Displacement	lit. (cu. in.)	3.455(210.86)		
Continuous rating output at crankshaft	kW/rpm (hp/rpm)	91(124)/3100	116(158)/3100	140(190)/3100
Maximum output at crankshaft	kW/rpm (hp/rpm)	118(160)/3300	147(200)/3300	177(240)/3300
Combustion system		Direct injection		
Aspiration		Turbocharged with intercooler		
Starting System		Electric starting (D.C. 12V, 2.5kW starting motor/12V, 55A alternator)		
Cooling System		Fresh water cooling by centrifugal fresh water pump and rubber impeller seawater pump		
Direction of rotation		Counterclockwise viewed from flywheel		
Dry Weight	kg (lbs)	342 (754)		365 (805)

Atmospheric conditions= ISO 3046/1, Density of fuel= 0.86g/cm³, 1hp=0.7355kW

DIMENSIONS Unit: mm(in.)

