



Marine Diesel Engine V222TI

- Compact Design
- Excellent Performance
- Low Fuel Consumption
- Easy Maintenance



- Rating output
 - 736kW (1,000PS)
- Displacement
 - 21,927cc
- Dimension (L×W×H)
 - 1,973×1,233×1,606mm
 - Without Reduction Gear

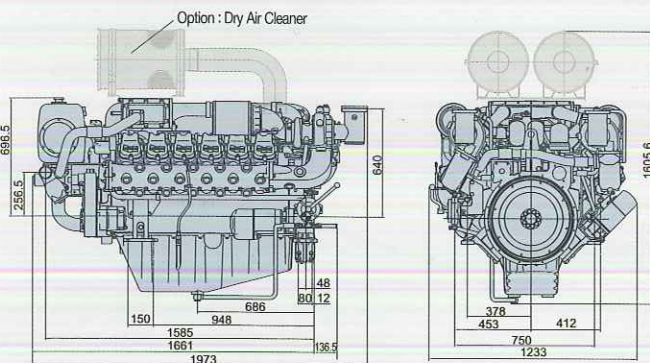
Doosan Infracore
Engine

Main Specification

Model	Units	V222TI		
		V222TIH	V222TIM	V222TIL
Engine type		4cycle, V type, direct-injection, water cooled with turbo charger & inter-cooler		
Rating output	PS(kW) / rpm	720(530)/1,800	800(588)/2,100	1,000(736)/2,300
Displacement	cc	21,927		
Cylinder number - bore × stroke	mm	12 - 128 × 142		
Flywheel housing & fly wheel(inch)		SAE 1 & 14		
Low idling rpm	rpm	725 ± 25		
No load max. rpm	rpm	below 2,070	below 2,415	below 2,645
Compression ratio		15 : 1		14.6 : 1
Firing order		1 - 12 - 5 - 8 - 3 - 10 - 6 - 7 - 2 - 11 - 4 - 9		
Governor type of injection pump		Mechanical variable speed (R.Q.V)		
Fuel consumption(only Ref.)@ rated power	g / PS.h	159.2	167.3	176.9
	Lit / h	136.95	159.90	211.35
Starting system		Electric Starting by starter motor		
Starter motor capacity	V - kW	24 - 6.6		
Alternator capacity	V - A	24 - 50		
Battery	V - Ah	24 - 200		
Cooling system		Indirect sea water cooling with heat exchanger		
Cooling water capacity	Max. / Min.	lit 98 / 87		
Fresh water pump type		Centrifugal type, driven by belt		
Sea water pump type		Bronze impeller type driven by belt		
Lubricating oil(Engine)	Pan capacity	lit Max : 40, Min : 33 (Engine total : 43)		
	Pressure	kg/cm ² Full : 3.5, Idle : 1.2		
Direction of revolution	Crankshaft	Counter clockwise viewed from stern side		
Engine Size(L×W×H)	Without M/G	mm 1,973×1,233×1,606		
Engine dry weight	Without M/G	kg 1,750		1,830

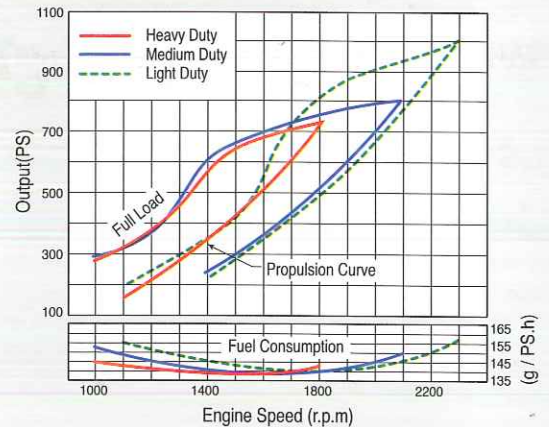
※H : Heavy Duty, M : Medium Duty, L : Light Duty

Engine Dimension



Performance Curve

- Heavy duty : 530kW(720PS)@1,800rpm
- Medium duty : 588kW(800PS)@2,100rpm
- Light duty : 736kW(1,000PS)@2,300rpm



Marine rating to ISO 3046

(1) Heavy Duty

- Operation hours : unlimited per year, unlimited per day
- Average load application : up to 90%
- Percentages of time at full load : up to 80%
- Typical gearbox ratio : 2.5~6
- * Application : Fishing trawler, Tug boat, Pushing vessel, Cargo boat, Freighter

(2) Medium Duty

- Operation hours : up to 3,000hr per year, up to 10hrs per day
- Average load application : up to 70%
- Percentages of time at full load : up to 30%
- Typical gearbox ratio : 2~3.5
- * Application : Pilot boat, Escort boat, Passenger boat, Freighter, Ferry, Cruising vessel

(3) Light Duty

- Operation hours : up to 1,000hr per year, up to 5hrs per day
- Average load application : up to 50%
- Percentages of time at full load : up to 20%
- Typical gearbox ratio : 1~2.5
- * Application : Yacht, Cruising vessel, Fast boat, Fire pump

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Doosan Infracore Engine

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AUTHORIZED DEALER

* Specifications are subject to change without prior notice.