



Marine Diesel Engine

V222TI

Daewoo Heavy Industries has made a fresh start as **Doosan Infracore**.

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

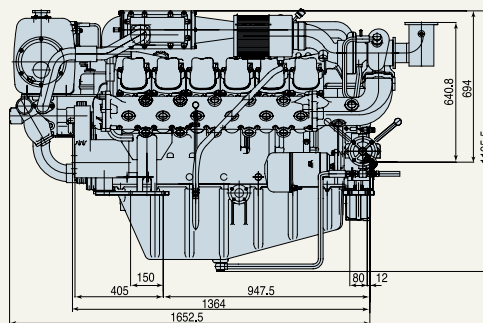
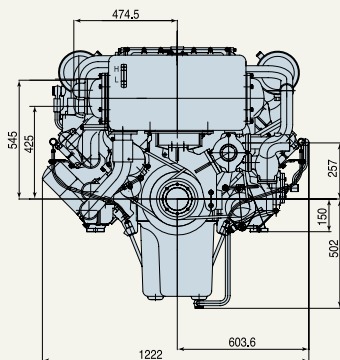


- Continuous Rating (BHP)
 - 736kW (1,000PS)
- Displacement
 - 21,927cc
- Dimension (L×W×H)
 - 1,653×1,222×1,196mm
 - Without Reduction Gear



Infracore

Engine Dimension

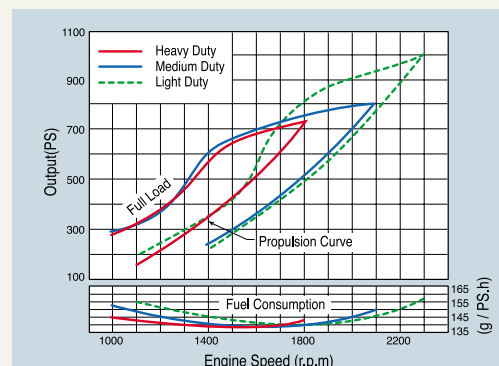


Main Specification

| Model | Units | V222TI (D2842LB) | | |
|-------------------------------------|----------------------|---|--|------------------|
| | | V222TIH | V222TIM | V222TIL |
| Engine type | | 4cycle, V type, direct-injection, water cooled, with wet turbo charger & inter-cooler | | |
| Rating output (B.H.P) | kW(PS) / rpm | 530(720)/1,800 | 588(800)/2,100 | 736(1,000)/2,300 |
| Displacement | c c | 21,927 | | |
| Cylinder number - bore (φ) × stroke | mm | 12 - φ 128 × 142 | | |
| Valve clearance at cold | In / Ex | 0.25 / 0.35 | | |
| 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 |
| 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 inj. nozzle opening pressure | kg / cm ² | 286 | | |
| 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 | | |
| Fresh water pump type | | Centrifugal type, driven by V-belt | | |
| Sea water pump type | | Bronze impeller type driven by V-belt | | |
| Lubricating oil (Engine) | Pan capacity | lit | Max : 40, Min : 33 (Engine total : 43) | |
| | Pressure | kg / cm ² | Full : 3.5, Idle : 1.2 | |
| Marine gear | Gear ratio | | 2.06, 2.50, 2.92, 3.26, 3.53, 4.08, 4.52 | |
| Direction of revolution | Crankshaft | | Counter clockwise viewed from stern side | |
| | Propeller | | Clockwise viewed from stern side | |
| Engine Size (L×W×H) | Without M/G | mm | 1,653×1,222×1,196 | |
| | With M/G | mm | 2,263×1,222×1,250 | |
| Engine dry weight | Without M/G | kg | 1,750 | |
| | With M/G | kg | 2,460 | |

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 85%
- Percentages of time at full load : up to 50%
- * Application : Fishing trawler, Tug boat, Pushing vessel, Cargo boat, Freighter, Ferry

(2) Medium Duty

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



Infracore

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AUTHORIZED DEALER

* Specifications are subject to change without prior notice.

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