

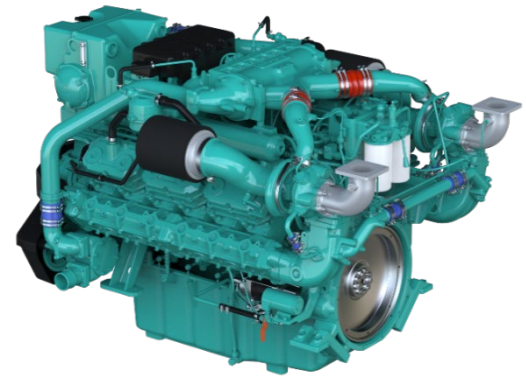
# HYUNDAI 4V222C



MARINE

## Power Rating

Conditions	Model	Max. Power		rpm	Emission
		kW	PS		
Continuous Duty	4V222CA(C)	596	810	1800	IMO Tier II/III EPA Tier 3 RCD
Heavy Duty	4V222CC(H)	530	720	1800	
	4V222CB(H)	588	800	1800	
	4V222CA(H)	664	903	1800	
	4V222CA(H)-II	736	1000	1800	
Medium Duty	4V222CA(M)	809	1100	2100	
Light Duty	4V222CB(L)	846	1150	2300	
	4V222CA(L)	908	1235	2300	

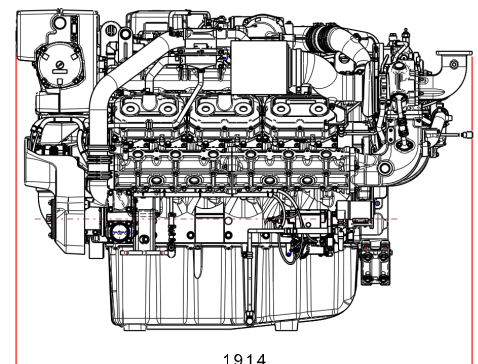
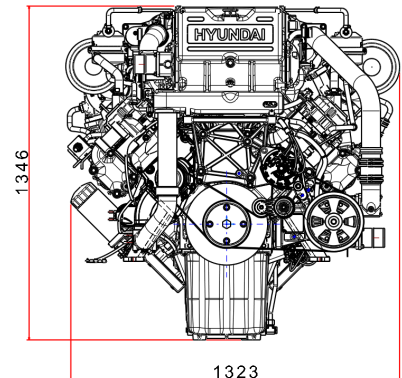


\* No reduction in rating for intake air temperature is up to 45°C (318K) and sea water temperature is up to 32°C (305K), relative humidity is up to 60%

\* All data are based on operation to ISO 3046. Performance tolerance of ±3%

## Engine Specifications

Engine Model	4V222C (DX22)
Cylinders and Arrangement	12-cylinder / V type
Bore x Stroke	128 x 142 mm
Displacement	21.9 liter
Compression Ratio	17.0 : 1
Firing Order	1-12-5-8-3-10-6-7-2-11-4-9
Direction of Revolution	Counterclockwise viewed from Flywheel
Fuel system	Common rail controlled by ECU
Starting system	Electric starting by starter motor
Starter motor capacity	24V - 7.0A
Alternator capacity	24V - 80Ah
Battery	24V - 200Ah
Aspiration	Wet turbocharger & intercooler
Flywheel Housing	SAE #1 (FW: 14")
Cooling system	Heat exchanger / Keel Cooling
Cooling water capacity	Max : 105 liter, Min : 94.5 liter
Fresh water pump type	Centrifugal (Pulley type)
Sea water pump type	Rubber Impeller
After Treatment System	IMO Tier-II : Not Required IMO Tier-III : SCR
Lubricant Oil	Oil pan capacity Max : 69 liter, Min : 36 liter Pressure Full load : 3.0, Idle : 1.0 (kg /cm <sup>2</sup> )
Dimension (L x W x H)	1914 x 1323 x 1346 mm
Dry Weight	2020 kg



### Key Features and Benefit

#### High Performance

- Advanced fuel injection system with common rail
- Compliance with emission regulation (IMO Tier II/III, EPA Tier 3)
- High-efficiency SCR
- Smoke reduction
- Increased durability of key components

#### Convenience

- Auto tensioner
- Turning device
- Electrical oil drain pump
- CCV for engine room cleanliness

#### Economical

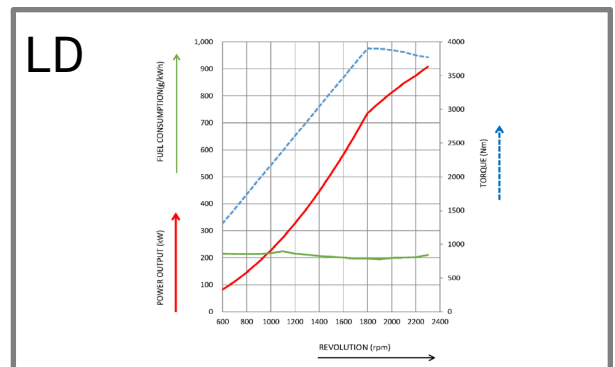
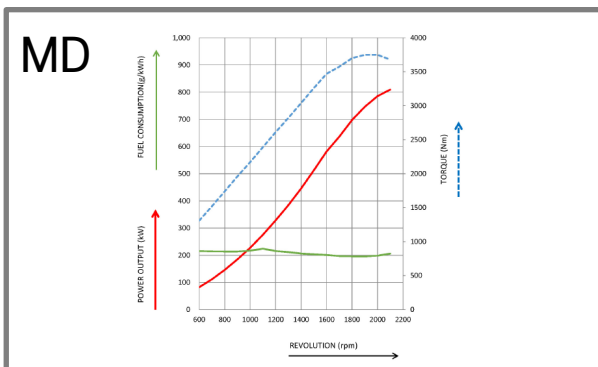
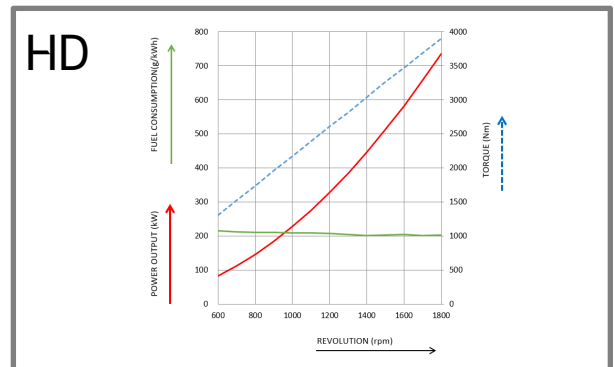
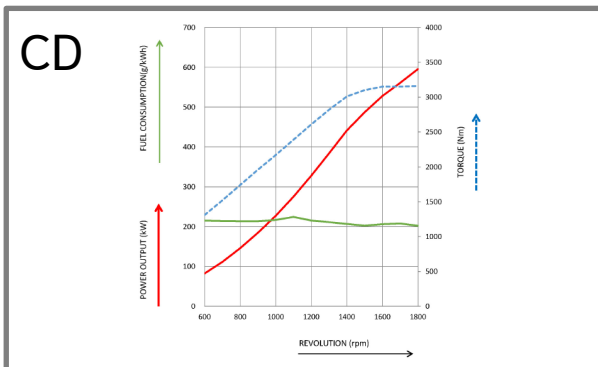
- Decreasing fuel consumption to average 5% by downsizing
- Increased oil & filter replacement cycle (250hr → 500hr)

#### Warranty

- Maximum 3 years warranty provided through extended warranty option

### Performance Curve

• CD(Continuous Duty) / HD(Heavy Duty) / MD(Medium Duty) / LD(Light Duty)



※ Specifications are subject to change without prior notice.

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