

Marine Engines

6 M33.2

4 Stroke diesel engine, direct injection

Bore and stroke Number of cylinders Total displacement Compression ratio Engine rotation (ISO 1204 standard) Idle speed Flywheel housing Flywheel 150 x 185 mm 6 in line 19,6 litres 15/1 counterclockwise 650 rpm SAE 1 SAE 14"



Customer benefits

Continuous compact power with reference torque performance in its category Global environment care with low exhaust emissions and controlled fuel consumption at any running cycle Simple technology with mechanical injection

Life cycle cost efficiency with extended mean time between overhauls (MBTO)

Rated power - Fuel consumption

Duty	kW	hp	rpm	Fuel consumption g/kWh	Peak torque / speed (N.m / rpm)	l/h	IMO
P1	478	650	1600	204	3400 / 1000	116	II
P1	478	650	1800	211	3056 / 1300	120	II
P2	515	700	1800	209	3085 / 1300	128	
P2	551	750	1800	214	3684 / 1400	141	

	P1	P2
Application	unrestricted continuous	continuous
Engine load variations	very little or none	Numerous
Average engine load factor	80 to 100 %	30 to 80 %
Annual working time	5000 hr +	3000 to 5000 h
Time at full load	unlimited	8 h each 12 h

Power definition

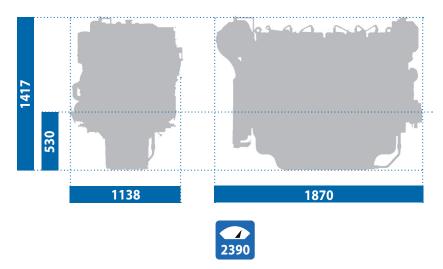
Standard ISO 3046/1

Reference conditionsAmbient temperature25 °C / 77 °FBarometric pressure100 kPa		Fuel oil Relative density Lower calorific power	0,840 ± 0,005 42 700 kJ/kg	Our ratings also comply with classification societies maximum temperature definition without power derating.	
Relative humidity	30%R	Consumption tolerances	0 ± 5%	Ambient temperature	45 ℃ / 113 ℉
Raw water temperature	25 ℃ / 77 °F	Inlet limit temperature	35 ℃ / 95 ℉	Raw water temperature	32 ℃ / 90 ℉

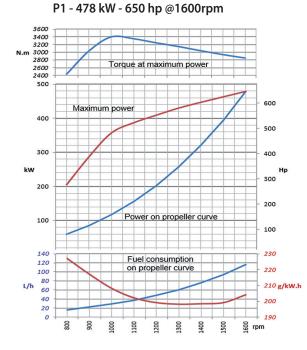
Standard equipment

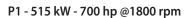
Cooling system	Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank Cast iron centrifugal fresh water pump, mechanically driven Bronze self-priming raw water pump, mechanically driven		
Lubrication system	Full flow screwable oil filters Fresh water cooled lube oil cooler Lube oil purifier with replaceable cartridge Manual prelubricating oil pump		
Fuel system	In-line injection pump with flanged mechanical governor Double wall injection bundle with leakage collector Duplex fuel filters replaceable while engine running		
Intake air and exhaust system	Fresh water cooled turbo blower Fresh water cooled exhaust gas manifold		
Electrical system	Voltage: 24VDC Electrical starter on flywheel crown 175A battery charger Engine room and bridge panels		

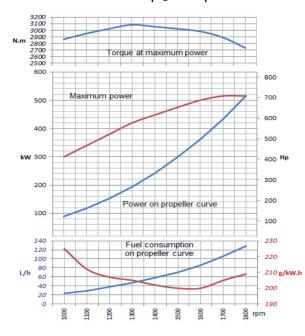
Dimensions and dry weight (mm / kg)



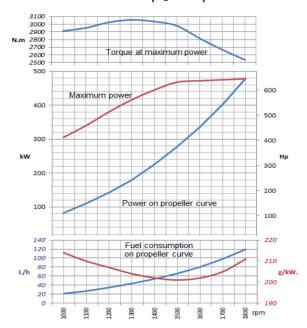
Performance



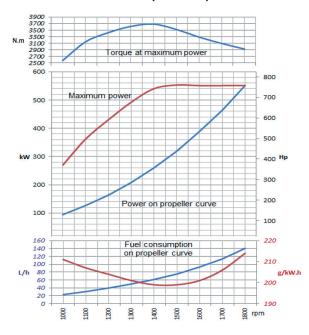




P1 - 478 kW - 650 hp @1800rpm



P2 - 551 kW - 750 hp @1800 rpm



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