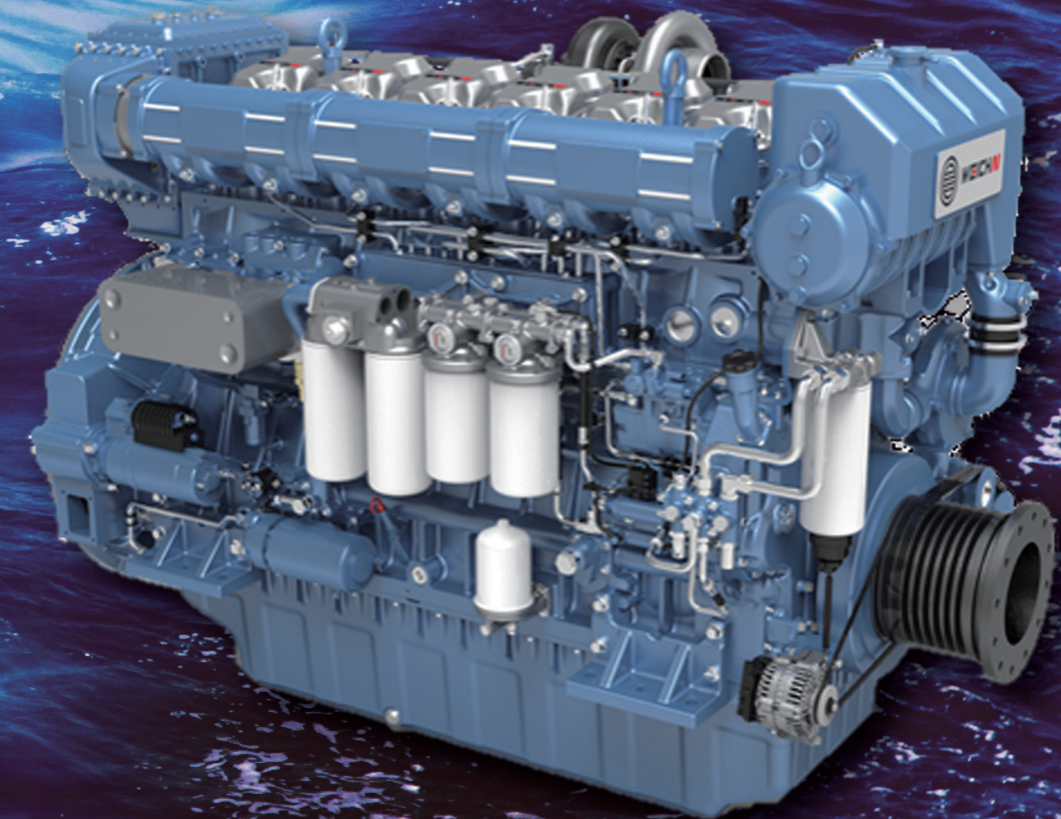


WEICHAI pursues an active policy of product development and improvement. For this reason the company reserves the right to change specifications without prior notice.

# 6WH17

## MARINE PROPULSION POWER

RELIABLE · DURABLE · POWERFUL



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Contact your local dealer for more information regarding WEICHAI engine and optional equipment/accessories



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**WEICHAI**

Technical Data

Engine model	6WH17C900-3	6WH17C900-5	6WH17C1000-5
Rated power, Ps(kW)	900(661)	900(661)	1000(735)
Rated speed, r/min	1350	1500	1500
Power rating		P1	
Min. fuel consumption, g/(kW·h)		185	
No. of cylinders and configuration		In-line 6	
Description	4-stroke,direct-injected,turbocharged diesel engine with air cooler		
Bore x Stroke, mm (in)	170 x 222(6.7 x 8.7)		
Displacement, L (in <sup>3</sup> )	30.22(1844)		
Compression ratio	15.5:1		
Dry weight, kg (lb)	3500(7700)		
Emission	IMO Tier II		
Firing order	1-5-3-6-2-4		
Idle speed, r/min	500		
Flywheel housing/Flywheel	SAE 0/18"		

Class Definition

Rating	Time at full load	Mean engine load factor	Annual working time	Typical applications
P1 Continuous Duty	Unlimited	70% ~ 100%	recommended but not limited to 5000h-8000h	Ocean vessel Engineering vessel
P2 Heavy Duty	8h per 12h	40% ~ 80%	recommended but not limited to 5000h	Ferries,High speed passengers boats,Trawlers,Inland waterway transport boats,Tugboat,offshore trade vessel,Purse seine vessel
P3 Intermittent Duty	4h per 12h	40% ~ 80%	recommended but not limited to 3000h	Offshore service boats,Seasonal cruise ship,Official vessels with high utilization rate
P4 Light Duty	2h per 8h	60%	recommended but not limited to 1000h	Fishery patrol ship,Maritime surveillance ship,Patrol boat,Life boat,Stormships used by local governments
P5 High Performance Duty	0.5h per 5h	60%	recommended but not limited to 500h	Leisure yachts

Power Definition

Standard ISO 3046 -1

Reference conditions

Ambient temperature 25 °C / 77 °F  
 Barometric pressure 100 kPa  
 Relative humidity 30%  
 Raw water temperature 25 °C / 77 °F

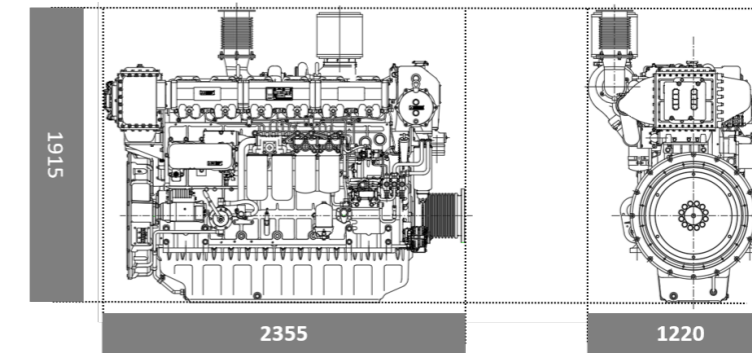
Fuel oil

Relative density 0,840 ± 0,005g/ml  
 Lower calorific power 42,700 kJ/kg  
 Consumption tolerance 0 ± 5%  
 Inlet limit temperature 35 °C / 95 °F

Our ratings also comply with classification societies maximum temperature definition without power derating.

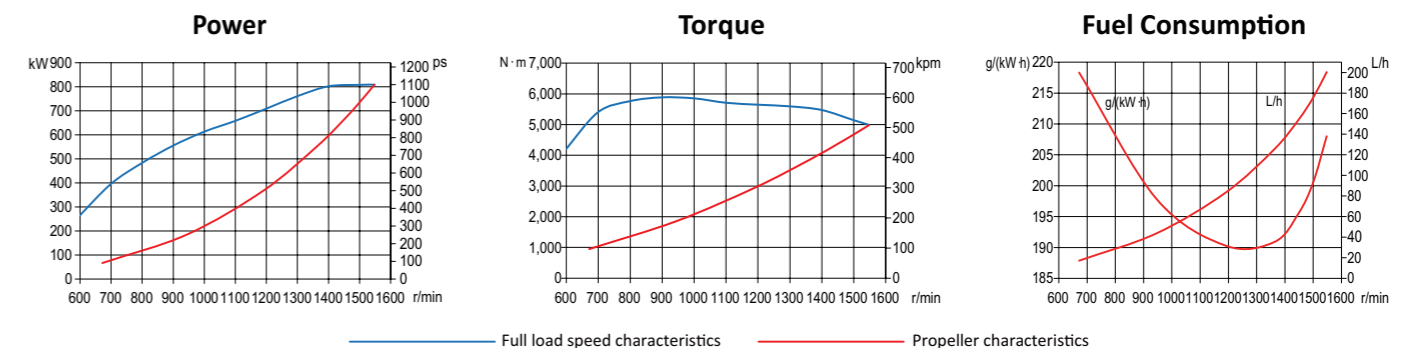
Ambient temperature 45 °C / 113 °F  
 Raw water temperature 32 °C / 90 °F

Engine Dimensions



Dimensions may vary based on selected engine configuration

Performance Curves(6WH17C1000-5)



Technical Description

Engine and block

- Cylinder block made of Vermicular graphite cast iron
- 4 valves per cylinder
- Steel crankshaft
- Wet cylinder liner

Starting system

- Electric motor 24V/11kW,2-pole
- Air motor (option)

Lubrication system

- Switchable oil filter
- Centrifugal oil filter
- Electric Pre-lubricating Pump (option)

Fuel system

- Common rail fuel injection system with high-pressure pump
- Anti-explosion high pressure fuel pipe and leak-off fuel monitoring
- Switchable fuel fine filter

Air inlet and exhaust system

- Turbocharged and intercooled air intake system
- Air filter with stainless shell

Cooling system

- Cast aluminum heat exchanger
- Gear driven fresh water pump installed on engine
- Heat exchanger and intercooler fitted compactly

Control system

- Weichai original ECU
- LCD local control panel and remote panel

