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

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

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WEICHAI

Technical Data

Engine model	WP10C313-21E120	WP10C350-18E120	WP10C375-21E120	WP10C395-22E120
Rated power, Ps(kW)	313(230)	350(257)	375(275)	395(290)
Rated speed, r/min	2130	1800	2100	220
Power rating	P1	P1	P2	P3
Min. fuel consumption, g/(kW·h)	191			
No. of cylinders and configuration	in-line 6			
Description	4-stroke, common rail , turbocharged air cooler			
Bore x Stroke, mm (in)	126 x 130(4.96 x 5.12)			
Displacement, L (in^3)	9.726(594)			
Compression ratio	17:1			
Dry weight, kg (lb)	1082(2385)			
Emission	IMO Tier II			
Firing order	1-5-3-6-2-4			
Idle speed, r/min	600			
Flywheel housing/Flywheel	SAE 1/14"			

Class Definition

Power Classification	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

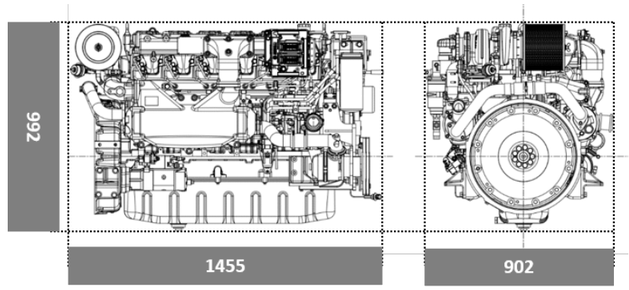
Reference conditions
Ambient temperature 25 °C / 77 °F
Barometric pressure 100 kPa
Relative humidity 30%
Raw water temperature 25 °C / 77 °F

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.

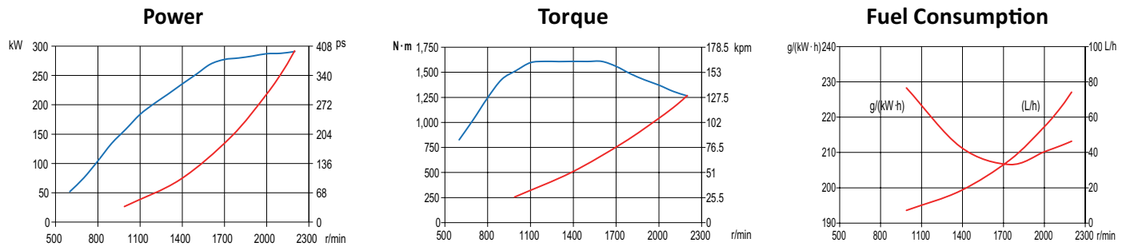
Ambient temperature 45 °C / 113 °F
Raw water temperature 32 °C / 90 °F

Engine Dimensions



Dimensions may vary based on selected engine configuration

Performance Curves(WP10C395-22E120)



Technical Description

Engine and block
• Cylinder block made of cast iron
• 4 valves per cylinder
• Steel crankshaft
• Cylinder head of separated type
• Dry cylinder liner

Electrical system
• Starter motor 24V/7.5kW,double-wire system
• Alternator 28V/35A, double-wire

Lubrication system
• Integrated oil cooler in cylinder block
• Duplex oil filter of spin-on type

Fuel system
• Anti-explosion high pressure fuel pipe with fuel leaking alarm
• 2-stop methods, electro magnet stop and electromagnetic valve
• Fuel filters with fuel water separate function

Air inlet and exhaust system
• Turbocharged and intercooled air intake system
• Engine coolant cooled or dry exhaust pipe

Cooling system
• Heat exchanger and air cooler with corrosion-resistance tubes and anti-corrosion Zinc bar