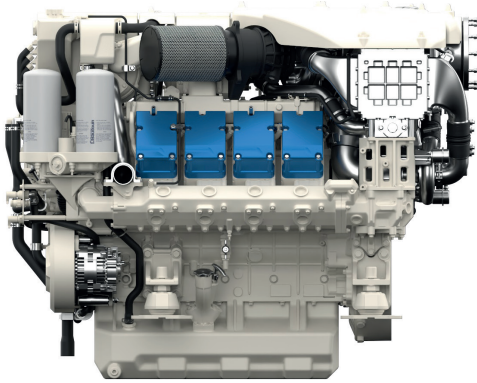




8F21

Common rail diesel engine, 2-stage turbocharging

Common rail diesel engine,
2-stage turbocharging



Number of cylinders	8
Bore and stroke (mm)	127 x 165
Total displacement (L)	16.7
Engine rotation	counter clockwise
Idle speed	700
Flywheel	SAE 14"
Flywheel housing	SAE 1

Customer benefits

Most advanced Common Rail technology and high-end injection system (2200 bar), key to achieve strict emissions regulations and competitive performances

Highly efficient turbochargers optimized to operate with high performance keeping fuel consumption under control

Individual cylinder heads allowing easy maintenance

Key components made of highly reliable materials.

Rated power - Fuel consumption

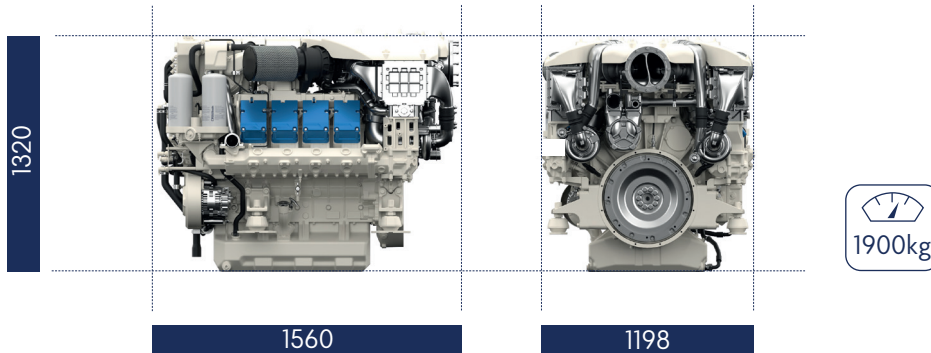
Duty	kW	HP	RPM	Fuel consumption			IMO
				Optimum value	Rated power		
				g/kWh	g/kWh	l/h	
P5	1000	1360	2300	204	223	274	II

	P5
Application	High performance
Engine load variations	Important
Average Engine load factor	60%
Annual working time	500h
Time at full load	1h each 12h

P5 High performance Duty Typical applications:

- Private pleasure boats
- Multi-hull pleasure boats

Dimensions and dry weight (mm/kg)



Standard equipment

Engine & Block

- Cast iron cylinder block
- Separate cast iron cylinder heads
- Replaceable valves guides and seats
- Steel forged crankshaft with 5 bearings
- Lube oil cooled light steel piston with 3 high performance piston rings

Cooling System

- Two - stage cooling circuit with built - in HT thermostatic valve
- Integrated fresh water expansion tank
- High efficiency tubular heat exchanger
- Gear driven centrifugal raw water pump
- Self priming raw water pump with bronze impeller

Lubrication System

- Full flow lube oil filters duplex type
- Fresh water cooled lube oil heat exchanger

Fuel System

- Common-rail electronic injection
- High pressure pump with shielded high pressure injection rail and pipes
- Fuel oil filter duplex type
- External fuel pre-filter with water separator

Intake Air and Exhaust System

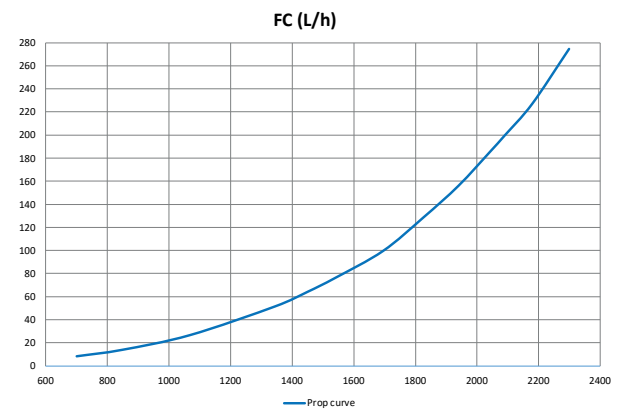
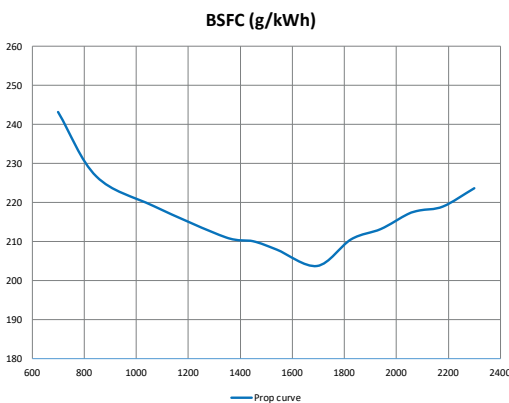
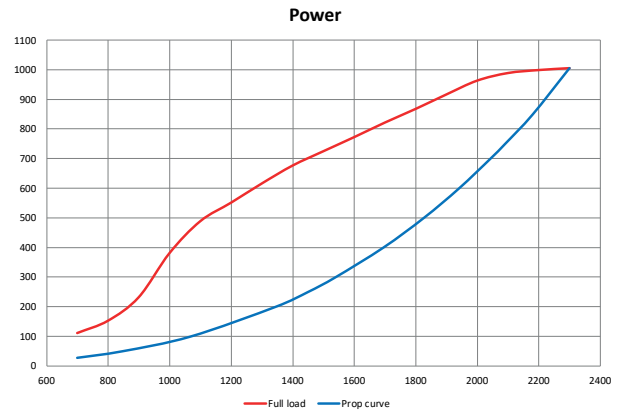
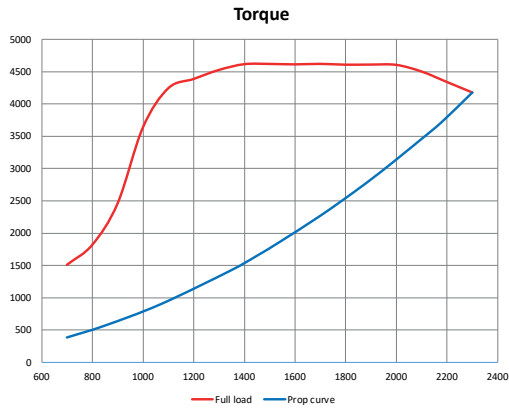
- Double flow raw water cooled intake air heat exchanger module
- High efficiency dry turbocharger with ball bearing technology
- Two Stage Turbocharging system

Electrical System

- Voltage: 24V DC insulated
- Electrical starter
- 190A battery alternator

Performance

P5 - 1000 kW - 2300 rpm



Power definition

(Standard ISO 3046/1 - 1995 (F))

Reference conditions

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

Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	+ 5%
	(DIN ISO 3046-1)
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