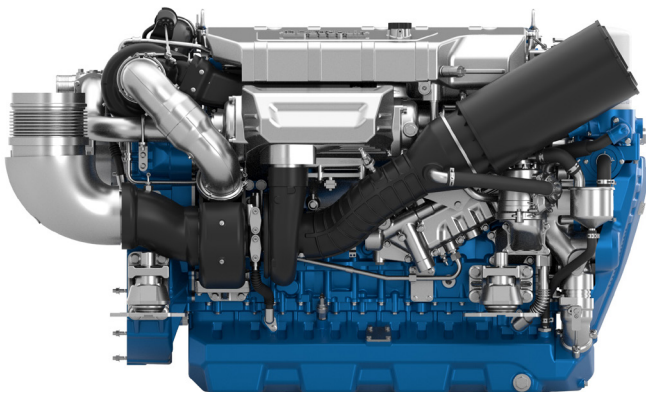




6F21

Propulsion Diesel Engine



Number of cylinders	6 in line
Bore and stroke (mm)	127 X 165
Total displacement (L)	12.5
Engine rotation	counter clockwise
Idle speed	700
Flywheel housing	SAE 1
Flywheel	SAE 14"

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	EPA
				Optimum value	Rated power			
					g/kWh	g/kWh		
P3	599	815	2300	202	220	155	II	3-REC
P4	662	900	2300	201	223	174	II	3-REC
P5	735	1000	2300	186	228	197	II	3-REC

	P3	P4	P5
Application	Intermittent	Light	High performance
Engine load variations	Important	Very important	Important
Average Engine load factor	60%	60%	60%
Annual working time	1000-3000h	less than 1500h	500h
Time at full load	2h each 12h	1h each 12h	1h each 12h

P1 Continuous Duty

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

P2 Heavy Duty

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

P3 Intermittent Duty

- Seasonal passenger vessels
- Fishing boats
- Pilot boats
- Commercial pleasure boats
- Pump boats
- Displacement sailboats
- Trawlers
- Bow thrusters

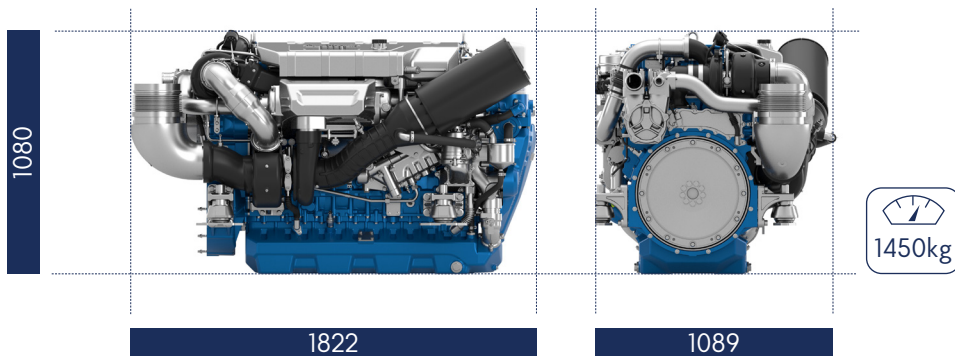
P4 Light Duty

- Private pleasure boats
- Multi-hull pleasure boats
- Survey or rescue fast vessels
- Military fast vessels.

P5 High performance Duty

- Private pleasure boats
- Multi-hull pleasure boats

Dimensions and dry weight (mm/kg)



Standard equipment

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 fresh 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

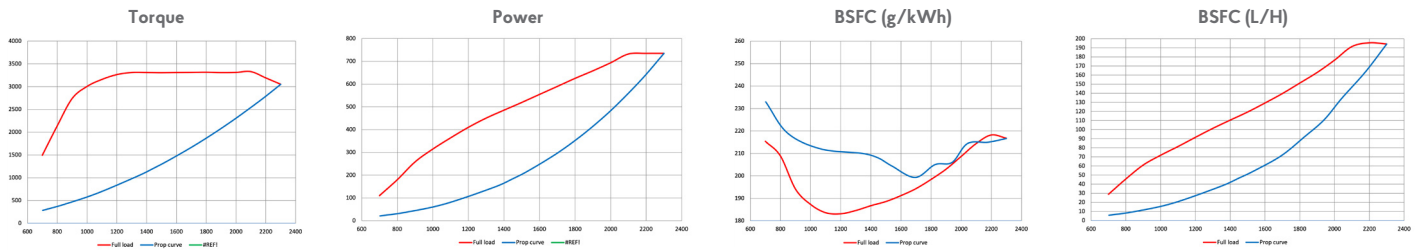
Voltage: 24V DC insulated
 Electrical starter
 190A battery alternator

Optional Equipment

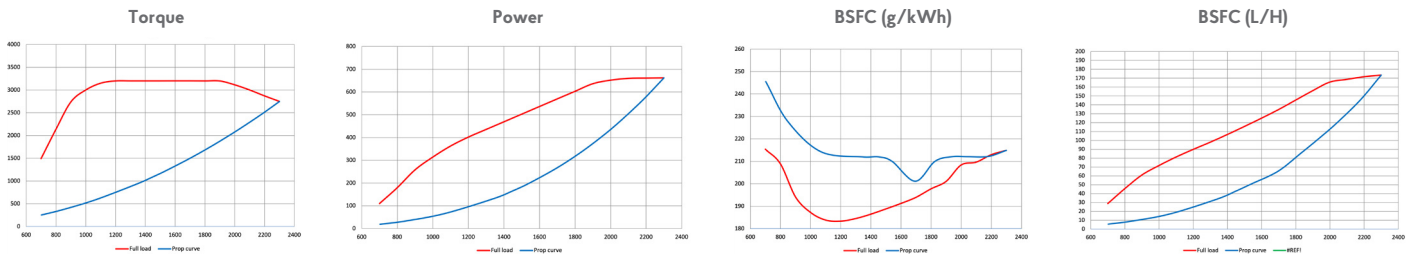
Wet exhaust
 PTO elastic coupling
 Additional pulley
 Electric drain system
 Standard PTO for hydraulic pump
 Electrical rotary actuator

Performance

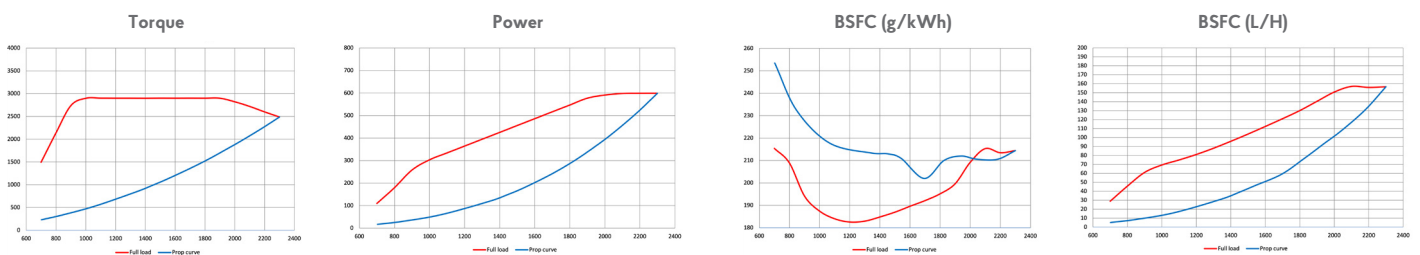
P5 735@2300



P4 662@2300



P3 599@2300



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