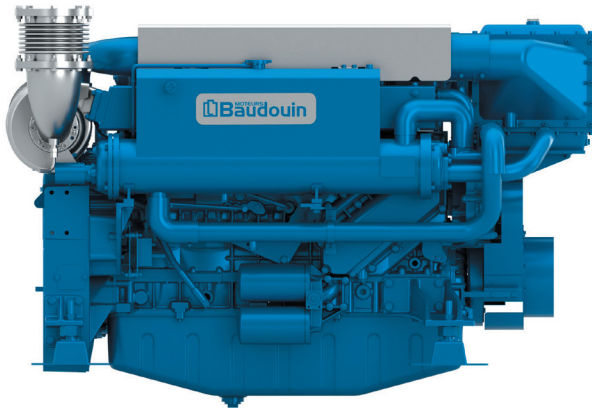




# 6M19.3

4 Stroke diesel engine, direct injection



Number of cylinders	6 in line
Bore and stroke (mm)	126 x 155
Total displacement (L)	11.6
Engine rotation	Counterclockwise
Idle speed	600rpm
Flywheel housing	SAE 1
Flywheel	SAE 14"

## Customer benefits

**Continuous compact power** with reference performances in its category

**Global environment care** with low exhaust emissions

**Best in Class fuel consumption** at any load profile

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

## Rated power - Fuel consumption

Duty	kW	HP	RPM	Fuel consumption g/kWh	l/h	IMO	CCNR	CE97/68
P1	331	450	1800	199	78	II	II	IIIA
P2	368	500	2100	205	90	II	II	IIIA
P3	404	550	2100	209	101	II	II	IIIA
P4	425	578	2200	218	110	II	II	-

	P1	P2	P3	P4
Application	unrestricted continuous	continuous	intermittent	high performance
Engine load variations	very little or none	continuous	important	very important
Average engine load factor	80% to 100%	30% to 80%	50%	30%
Annual working time	more than 5000h	3000 to 5000h	1000 to 3000h	less than 1000h
Time at full load	unlimited	8h each 12h	2h each 12h	1h each 12h

## 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

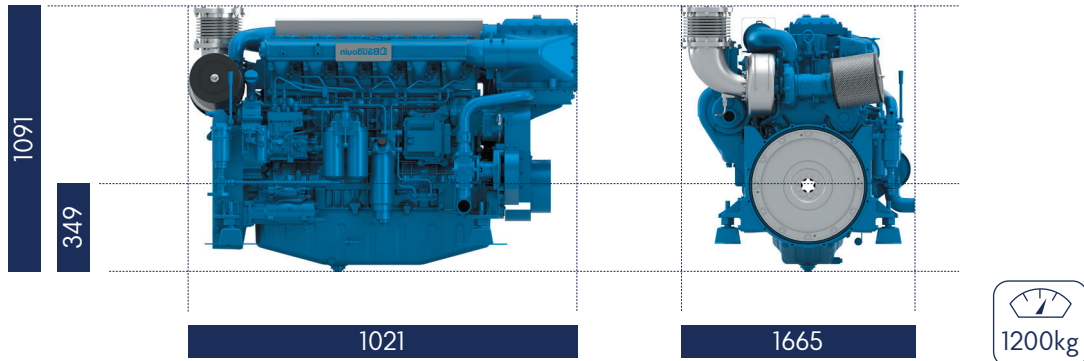
Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 ± 5%
Inlet limit temperature	35°C / 95°F

**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



## Dimensions and dry weight (mm/kg)



## Standard equipment

### Engine and block

Cast iron cylinder block, with replaceable cylinder liners  
 Separate cast iron cylinder heads equipped with 4 valves  
 Replaceable valves guides and seats  
 Steel forged crankshaft with 7 bearings  
 Lube oil cooled light alloy piston with 3 high performance piston rings

### 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 duplex type oil filters  
 Fresh water cooled lube oil cooler plate type

### Fuel system

Electronic common-rail injection  
 Double wall injection bundle with alarm and leakage collector  
 Duplex fuel filters replaceable engine running  
 Water separator

### Intake air and exhaust system

Exhaust gas manifold cooled by the engine fresh water  
 Dry turbo blower insulated  
 Low water temperature cooled intake air cooler

### Electrical system

Voltage: 24Vcc  
 Electrical starter on flywheel crown  
 35A battery charger  
 Wheelhouse control panel

### Optional equipment

Cooling system adapted for box/keel cooling  
 Connection for emergency raw water circuit Bilge pump  
 Air starter  
 Promachined free end PTO  
 Resilient mounts under engine  
 Exhaust water injection after turbocharger  
 Fresh water electrically heated  
 Cabin heating