MOTEURS Baudouin

12M26.2

Propulsion Diesel Engine

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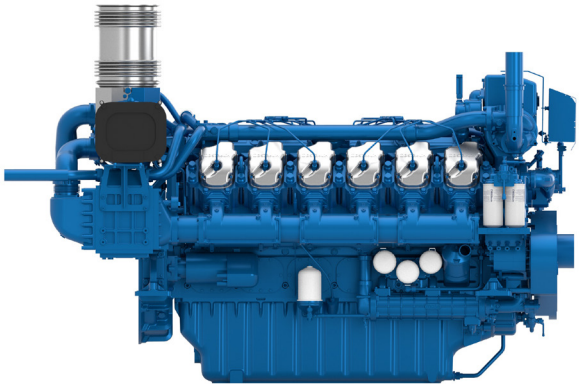

Number of cylinders	12V @ 90
Bore and stroke (mm)	150 X 150
Total displacement (L)	31.8
Compression ratio	15/1
Engine rotation	counter clockwise
Idle speed (rpm)	700
Flywheel	SAE 0
Flywheel housing	SAE 18"

Customer benefits

Genuine marine design, our engine is designed specifically for Marine applications with Marine components

Global environment care with low exhaust emissions at any running cycle

Simple technology with mechanical injection

Life cycle cost efficiency with extended MTBO, modular concept reducing number of components and interfaces

Rated power - Fuel consumption

Duty	kW	HP	RPM	Fuel consumption			IMO	CCNR	CE97/68
				Optimum value	Rated power				
				g/kWh	g/kWh	l/h			
P1	662	900	1800	207	198	156	II	II	III A
P1	736	1000	1800	209	197	173	II	II	III A
P2	808	1100	1900	208	200	192	II	II	III A
P2	883	1200	1950	205	201	211	II	-	-

	P1	P2
Application	Unrestricted Continuous	Continuous (Heavy)
Engine load variations	Not important	Important
Average Engine load factor	80-100%	30-80%
Annual working time	More Than 5000 H	3000 -5000 H
Time at full load	Unlimited	8h 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

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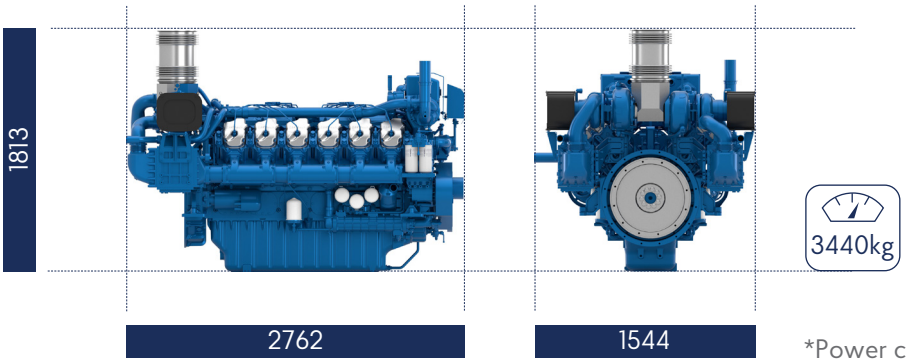
Dimensions and dry weight (mm/kg)



*Power curves available on request

Standard equipment

Engine & Block

Cast iron cylinder block
One inspection door per cylinder for access to conrod cap
Cast iron cylinder liners, wet type
Separate cast iron cylinder heads equipped with 4 valves
Replaceable valves guides and seats
8 cylinders head tightening bolts
Hardened steel forged crankshaft with induction hardened journals, crankpins and radius
Camshaft with polynomial cams profile
Distribution with tempered, hardened and grinded helicoïdal gears
Chromium-Molibdenum steel conrods
Lube oil cooled light alloy pistons with 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 drive

Lubrication System

Full flow screwable oil filters
Lube oil purifier with replaceable cartridge
Fresh water cooled lube oil cooler

Fuel System

In line injection pump with flanged mechanical governor
Double wall injection bundle
Duplex fuel filters replaceable engine running

Intake Air & Exhaust System

Fresh water cooled turbo blower
Double flow raw water cooled intake air cooler

Electrical System

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

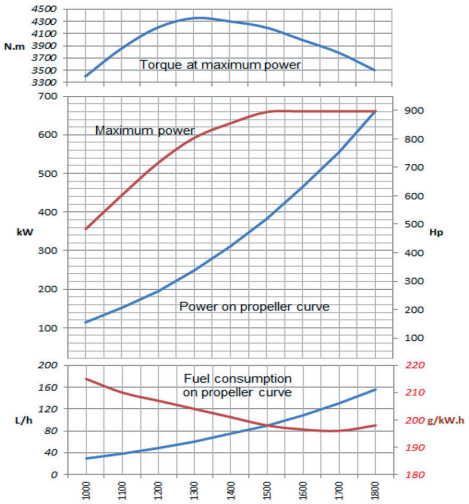
Optional Equipment

Cooling system adapted for box / keel cooling
Connection for emergency raw water circuit Resilient mounts under engine
Bilge pump
Resilient mounts under engine
Free end PTO
Equipment and factory trial according to Major Classification Societies rules

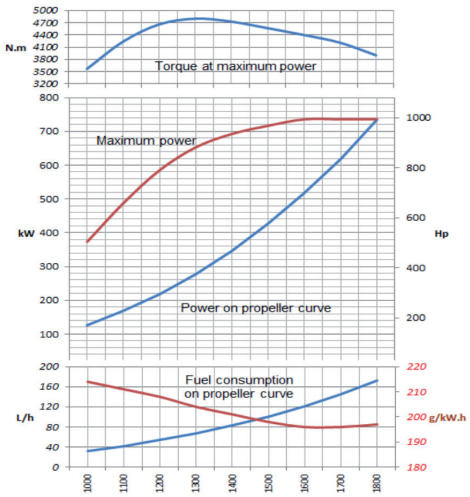
Contact us for further information regarding our options.

Performance

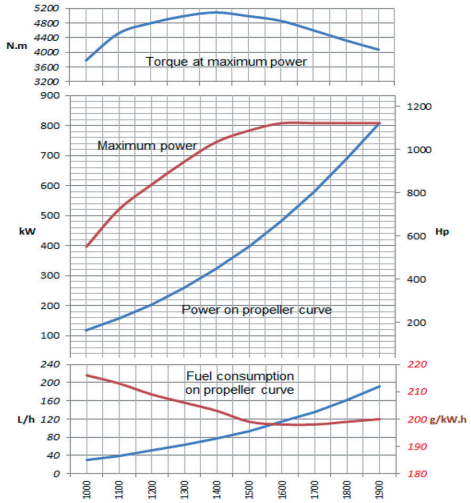
P1 - 662 kW - 900 hp @1800rpm



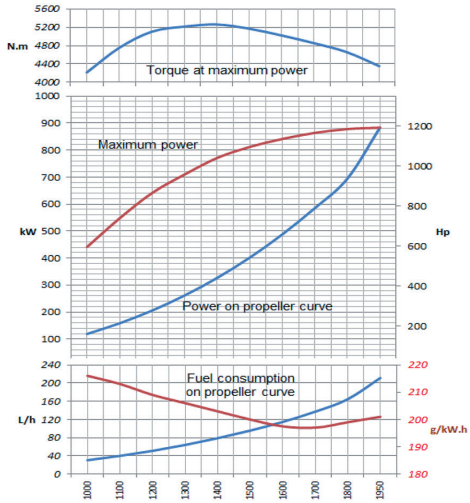
P1 - 736 kW - 1000 hp @2100rpm



P2 - 808 kW - 1100 hp @1900rpm



P2 - 883 kW - 1200 hp @1950rpm



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