



# 4 stroke diesel engine, direct injection, common-rail

Bore and stroke	126 x 155 mm
Number of cylinders	6 in line
Total displacement	11.6 litres
Compression ratio	17/1
Engine rotation (ISO 1204 standard)	CCW *
Idle speed	600 rpm
Weight (without water & oil)	1200 kg
Flywheel housing	SAE 1
Flywheel	SAE 14"

\* counter-clockwise

## **RATED POWER**

Duty	rpm	kW	hp	Full load fuel consumption (g / kW.h)	IMO
P1	1800	331	450	199	Ш
P2	2100	368	500	205	II
P3	2100	404	550	209	II
P4	2200	425	578	218	II

# STANDARD EQUIPMENTS

#### **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**

 $\ensuremath{\mathsf{Fresh}}$  / 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

#### Lubrification system

Full flow duplex type oil filters Fresh water cooled lube oil cooler plate type

#### **OPTIONAL EQUIPMENTS** (extracts) \*

Cooling system adapted for box / keel cooling Connection for emergency raw water circuit Bilge pump Air starter Promachined free end PTO

#### **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

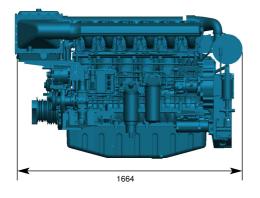
Resilient mounts under engine Exhaust water injection after turbocharger Fresh water electrically heated Cabin heating

\* contact us for further information regarding our options.

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

# Baudouin

## DIMENSIONS



## **Power definition**

Standard ISO 3046/1 - 1995 (F)

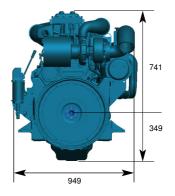
## **Reference conditions**

P2 rating - 368 kW / 500 hp @ 2100 rpm

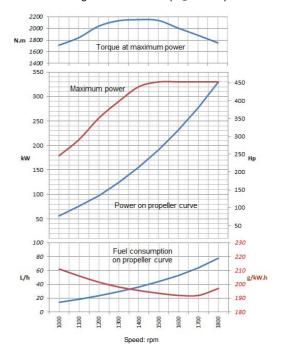
Ambiant temperature Barometric pressure Relative humidity Raw water temperature	25 °C/77 °F 100 kPa 30 % 25 °C/77 °F
Limit conditions	ISO 3046
Fuel oil Relative density Lower calorific power Consumption tolerances Inlet limit temperature	0,840 ± 0,005 42 700 kJ/kg 0 ± 5 % 35 °C / 95 °F

Our ratings also comply with classification societies maximum temperature definition without power derating.

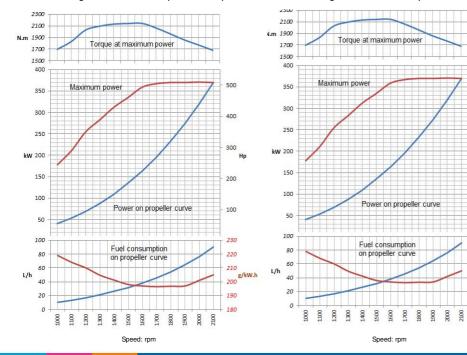
Ambiante temperature	45 °C / 113 °F
Raw water temperature	32 °C/90 °F

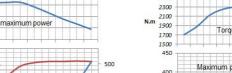


#### P1 rating - 331 kW / 450 hp @ 1800 rpm



P4 rating - 425 kW / 578 hp @ 2200 rpm





400

300

200

100

230

220

210

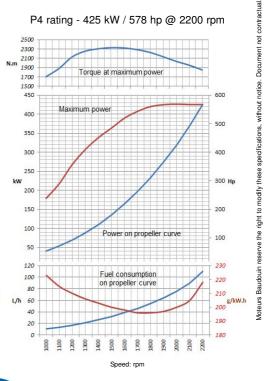
200

190

180

g/kW.h

2500



#### Société Internationale des Moteurs Baudouin

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P3 rating - 404 kW / 550 hp @ 2100 rpm