



MARINE DATA SHEET

S30 230 E

169 kW

**Our efficiency.
Your edge.**

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air handling	TCA
Cylinders arrangement	4L
Bore x Stroke	95.8 x 104 mm
Total displacement	3 liters
Valves per cylinder	4
Cooling System	Liquid
Direction of Rotation (viewed facing flywheel)	CCW (Counterclockwise)
Engine management	Electronic
Injection System	CR

STANDARD CONFIGURATION

Flywheel housing	SAE 4
Flywheel size	8"
Air filter	Rear side
Turbocharger	Waste Gate (water cooled) Turbo with Aftercooler (TCA)
Heat exchanger	Tube type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	Included
Fuel filter	1
Fuel prefilter	Included (loose)
Fuel pump	Included
Oil filter	1
Oil sump	Aluminium
Oil vapours blowby circuit	Front
Oil heat exchanger	Built in the crankcase
Oil filler	On front cover
Starter	12 V - 2.3 kW
Alternator	12 V - 110 A
Engine stop device	By electronic central unit
Wiring harness	With EDC (Electronic Diesel Control)
Painting color	White "ICE"

Legend

Arrangement

L In line
V 90° "V" configuration

Air Handling

TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Turbocharger

WG Wastegate
VGT Variable Geometry Turbocharger
TST Twin Stage Turbocharger

Exhaust System

EGR Exhaust Gas Recirculation
SCR Selective Catalytic Reduction

Injection System

M Mechanical
CR Common Rail
EUI Electronic Unit Injector
MPI Multi Point Injection

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 780 x 775 x 753 mm
Dry Weight	330 Kg

* Dimensions can be changed according to engine options

** Length at flywheel

ELECTRICAL SYSTEM

Voltage	12 V
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NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	110 Ah
Battery - minimum cold cranking capacity recommended	800 Ah

RATING TYPE

		A1	B	C
Maximum power [*]	kW (HP)	169 (230)	129 (175.5)	85 (115.6)
At speed	rpm	4000	3500	3500
Maximum no load governed speed at max rating	rpm	4280	3980	3980
Minimum idling speed	rpm	750+/-50	750+/-50	750+/-50
Mean piston speed at rated speed	m/s	13.9	12.1	12.1
BMEP at max power	bar	20.5	18	15.3
Specific fuel consumption (best value)	g/kWh@rpm	217 @ 2100	215 @ 2400	217 @ 2400
Oil consumption at max rating	(% of fuel cons.)	< 0.2	< 0.2	< 0.2
Minimum starting temperature without auxiliaries	°C	-10°	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	600	600	600

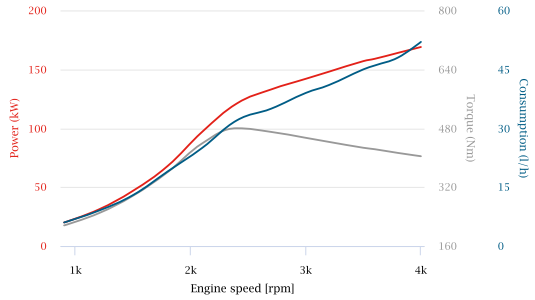
* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

Rating

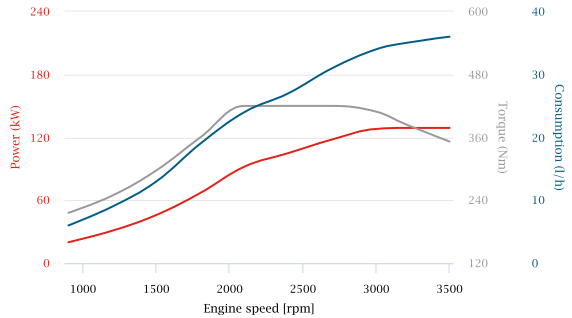
A1	High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 300 hours per year.	B	Light duty. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1500 hours per year.
A2/B1	Pleasure/commercial vessels. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1000 hours per year.	C	Medium duty. Full throttle operation <25% of use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 3000 hours per year.
		D	Heavy duty.

POWER & TORQUE

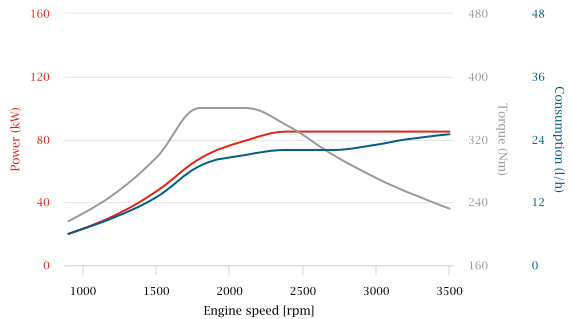
S30 230 E
Rating A1 - 169 kW
Emission Standards:
- IMO MARPOL Tier 2
- RCD Stage 2



S30 230 E
Rating B - 129 kW
Emission Standard:
- RCD Stage 2



S30 230 E
Rating C - 85 kW
Emission Standard:
- RCD Stage 2





Rating type A1: 169 kW (230 HP) @ 4000 rpm
Rating type B: 129 kW (175.5 HP) @ 3500 rpm
Rating type C: 85 kW (115.6 HP) @ 3500 rpm



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