

Marine Pleasure F1C

S30 230 E

169 kW

Rating type A1:	169 kW (230 HP) @ 4000 rpm
Rating type A2:	- kW (- HP) @ - rpm
Rating type B:	129 kW (175.5 HP) @ 3500 rpm
Rating type C:	85 kW (115.6 HP) @ 3500 rpm

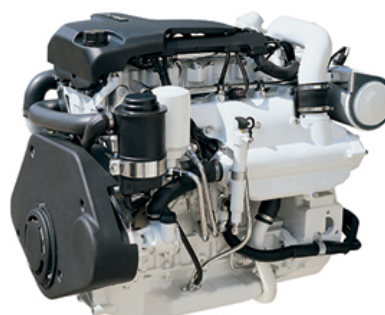
SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air handling	TCA
Cylinders arrangement	4L
Bore x Stroke	millimeters 95.8 x 104
Total displacement	liters 3
Valves per cylinder	number 4
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Engine management	electronic
Injection System	ECR

WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	780 x 775 x 753
Dry Weight	Kg	330

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

STANDARD CONFIGURATION

Flywheel housing	type	SAE 4
Flywheel size	inch	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	number	1
Fuel prefilter		included (loose)
Fuel pump		included
Oil filter	number	1
Oil sump		aluminium
Oil vapours blowby circuit		front
Oil heat exchanger		built in the crankcase
Oil filler		on front cover
Starter		12V - 2.3kW
Alternator		12 V - 110 A
Engine stop device		by electronic central unit
Wiring harness		with EDC (Electronic Diesel Control)
Painting color		white "ICE"

ELECTRICAL SYSTEM

Voltage	V	12
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NOT INCLUDED IN STANDARD CONFIGURATION

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

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)	TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

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 usage 300 hours per year.
A2	Pleasure Commercial Vessels. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1000 hours per year.
B	Light Duty: Full throttle operation restricted within 10% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1500 hours per year.
C	Medium Duty: Full throttle operation < 25% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 3000 hours per year.
D	Heavy Duty

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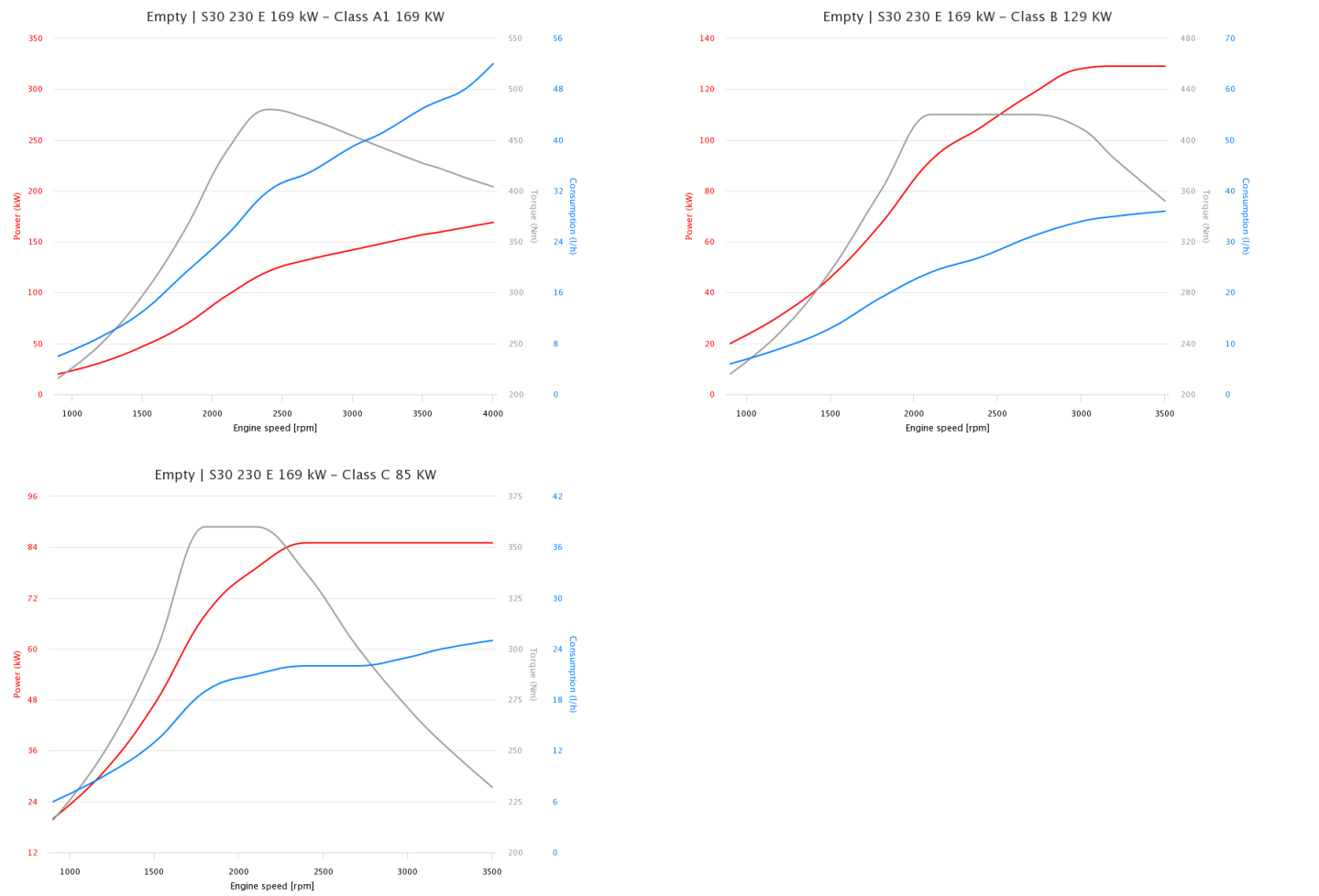
SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



RATING TYPE		A1	A2	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	715	-	715	715
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 at full load (best value)	g/kWh @ rpm	252 @ 4000	-	237 @ 4000	260 @ 4000
Oil consumption at max rating	(% of fuel con		< 0.2		
Minimum starting temperature without auxiliaries	°C		-10°		
Oil and oil filter maintenance interval for replacement	hours		600		

* Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

POWER & TORQUE



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