

MARINE

Pleasure

F1

S30 230 E

169 kW

Rating type A1: 169 kW (230 HP) @ 4000 rpm

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air Feeding	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	CR

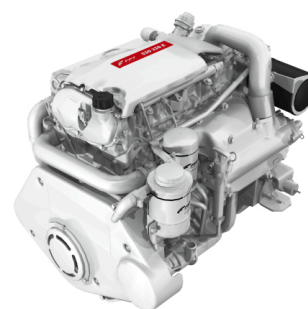
STANDARD CONFIGURATION

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"

WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	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

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

Do you want to know more?

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TC (Turbocharged) NA (Naturally Aspirated) TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical) CR (Common Rail) MPI (Multi Point Injection)	EGR (Exhaust Gas Recirculation) SCR (Selective Catalytic Reduction)

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/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 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

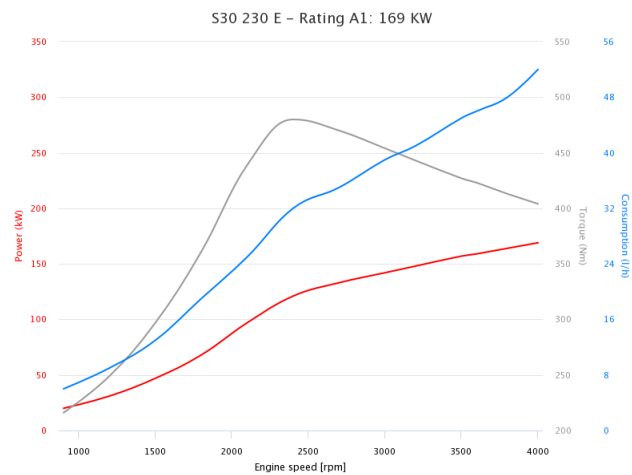
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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



RATING TYPE		A1
Maximum power [*]	kW (HP)	169 (230)
At speed	rpm	4000
Maximum no load governed speed at max rating	rpm	4280
Minimum idling speed	rpm	750
Mean piston speed at rated speed	m/s	13.9
BMEP at max power	bar	20.5
Specific fuel consumption (best value)	g/kWh @ rpm	252 @ 4000
IMO Marpol Tier 2 (IMO Annex VI Technical Code 2008)		✓
RCD Stage 2 (2013/53/EC)		✓
IWW Stage V (EU 2016/1628)		-
EPA Tier 3 Commercial		-
EPA Tier 3 Recreational		-
China GB I (GB15097-2016)		-
China GB II (GB15097-2016)		-
Oil consumption at max rating	(% of fuel cons.)	< 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 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.		

POWER & TORQUE



PLEASURE

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