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

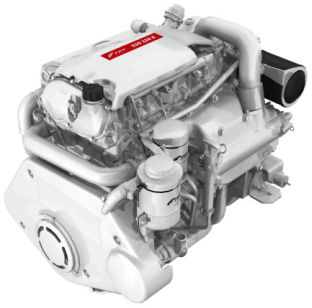
STANDARD CONFIGURATION

Flywheel housing	type	SAE 4
Flywheel size	inch	8"
Air filter		rear side
Turbocharger		Waste Gate (water cooled) Turbo with Aftercooler (TCA)
Heat excharger		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

PLEASURE

ELECTRICAL SYSTEM

Voltage	V	12

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? CONTACT US

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TC (Turbocharged)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	NA (Naturally Aspirated)	VGT (Variable Geometry Turbocharger)	CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)	TST (Twin Stage Turbocharge)	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/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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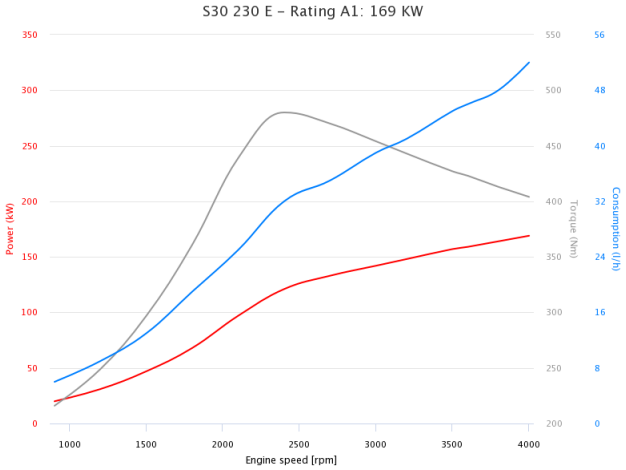
SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

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)		✓
IWV 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

LEGEND

Arrangement
L (in line)
V (90° "V" configuration)

Air Handling
TC (Turbocharged)
NA (Naturally Aspirated)
TCA (Turbocharged with aftercooler)

Turbocharger
WG (Wastegate)
VGT (Variable Geometry Turbocharger)
TST (Twin Stage Turbocharge)

Injection System
M (Mechanical)
CR (Common Rail)
EUI (Electronic Unit Injector)
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Exhaust System
EGR (Exhaust Gas Recirculation)
SCR (Selective Catalytic Reduction)

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