

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)	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)		✓
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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