

MARINE

Commercial

N40

N40 170
125 kW

Rating type C: 125 kW (170 HP) @ 2800 rpm
 Rating type C: 110 kW (150 HP) @ 2800 rpm
 Rating type C: 74 kW (100 HP) @ 2800 rpm
 Rating type C: 63 kW (85 HP) @ 2800 rpm

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Aspiration	TCA
Cylinders arrangement	4L
Bore x Stroke	millimeters 102 x 120
Total displacement	liters 3.9
Valves per cylinder	number 4
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Engine management	by EDC (Electronic Diesel Control)
Injection System	CR

STANDARD CONFIGURATION

Flywheel housing	type	SAE 3
Flywheel size	inch	11" ½
Air filter		rear side
Turbocharger	Fixed Geometry (water cooled) Turbo with Aftercooler (TAA)	
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 blow-by circuit		rear
Oil heat exchanger		built in the crankcase
Oil filler		n° 1
Starter		12 V - 3 kW
Alternator		12 V - 90 A
Engine stop device		by electronic central unit
Wiring harness		with negative to ground connection
Painting color		white "ICE"

WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	mm	850 x 708 x 785
Dry Weight	Kg	490

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

ELECTRICAL SYSTEM

Voltage	V	12 V
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NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	120
Battery - minimum cold cranking capacity recommended	Ah	900

Do you want to know more?

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)	CR (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/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		C	C	C	C
Maximum power [*]	kW (HP)	125 (170)	110 (150)	74 (100)	63 (85)
At speed	rpm	2800	2800	2800	2800
Maximum no load governed speed at max rating	rpm	3000	3000	3000	3000
Minimum idling speed	rpm	700	700	700	700
Mean piston speed at rated speed	m/s	11.2	11.2	11.2	11.2
BMEP at max power	bar				
Specific fuel consumption at full load (best value)	g/kWh @ rpm	228,6	263	297	305
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.)	< 0.1	< 0.1	< 0.1	< 0.1
Minimum starting temperature without auxiliaries	°C	-10°	-10°	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	600	600	600	600
Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.					

POWER & TORQUE



COMMERCIAL

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