**MARINE** Commercial **N40** 

Rating type C: Rating type C:

Rating type C:

Rating type C:

125 kW (170 HP) @ 2800 rpm

110 kW (150 HP) @ 2800 rpm 74 kW (100 HP) @ 2800 rpm

63 kW (85 HP) @ 2800 rpm

## **SPECIFICATIONS**

Thermodynamic cycle		Diesel 4 stroke
Air Feeding		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

# **WEIGHT AND DIMENSIONS**

Dimensions (L x W x H)	mm	850 x 780 x 785
Dry Weight	Kg	490

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

# STANDARD CONFIGURATION

Flywheel housing	type	SAE 3
Flywheel size	inch	11" ½
Air filter		rear side
Turbocharger	Fixed Geom	netry (water cooled) Turbo with Aftercooler (TAA)
Heat excharger		tube type
Exhaust gas water mixer - Exhaust	t 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"

### **ELECTRICAL SYSTEM**

Voltage	V	12 V

# NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	120
Rattery - minimum cold cranking canacity recommended	Δh	900

# 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

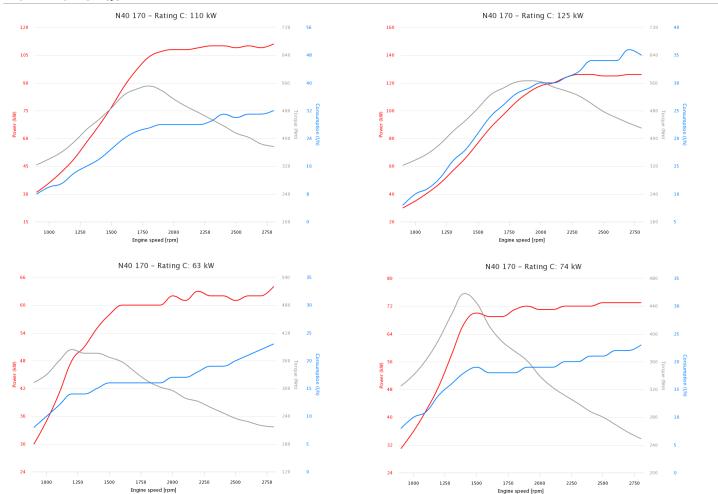




RATING TYPE		С	С	С	С
Maximum power [*]	kW (HP)	125 (170)	110 (150)	74 (100)	63 (85)
At speed	rpm	2800	2800	2800	2800
Maximum no load governed speed at max rating	rpm	3000	3000	3000	3000
Minimum idling speed	rpm	700	700	700	700
Mean piston speed at rated speed	m/s	11.2	11.2	11.2	11.2
BMEP at max power	bar				
Specific fuel consumption (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)		-	-	-	-
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.)	< 0.1	< 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

<sup>\*</sup> Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

#### **POWER & TORQUE**





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

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

LEGEND

Injection System M (Mechanical) CR (Common Rail) EUI (Electronic Unit Injector) MPI (Multi Point Injection)

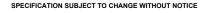
**Exhaust System** EGR (Exhaust Gas Recirculation) SCR (Selective Catalytic Reduction)

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D Heavy Duty