

N45 100 74 kW

 Rating type A1:
 74 kW (100 HP) @ 2800 rpm

 Rating type B:
 66.5 kW (90 HP) @ 2800 rpm

 Rating type D:
 63 kW (85 HP) @ 2800 rpm

SPECIFICATIONS

STANDARD CONFIGURATION

Exhaust gas water mixer - Exhaust cooled elbow

type

inch

number

number

Flywheel housing

Flywheel size

Turbocharger

Heat excharger

Water charge tank

Oil vapours blowby circuit

Oil heat exchanger

Engine stop device

Wiring harness

Painting color

Air filter

Fuel filter

Fuel prefilter

Fuel pump

Oil filter

Oil sump

Oil filler

Starter

Alternator

Thermodynamic cycle		Diesel 4 stroke
Air Feeding		NA
Cylinders arrangement		4L
Bore x Stroke	millimeters	104 x 132
Total displacement	liters	4.5
Valves per cylinder	number	2
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Engine management		mechanical
Injection System		MPI

WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	mm	811 x 700 x 836
Dry Weight	Kg	450

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

ELECTRICAL SYSTEM

Voltage

V 12

NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	180 Ah
Battery - minimum cold cranking capacity recommended	Ah	800 Ah

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)
	TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)		
			MPI (Multi Point Injection)	

SAE 3

left side

tube type

included

included

cast iron

12V - 3kW

white "ICE"

included (loose)

on valve cover

built in the crankcase

electrical excitation

by cylinder head cover

12 V - 90 A with W contact

with negative to ground connection

1

1

Naturally Aspirated (NA)

10"





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.

AZ/BT 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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RATING TYPE

RATING TYPE		A1
Maximum power [*]	kW (HP)	74 (100)
At speed	rpm	2800
Maximum no load governed speed at max rating	rpm	3100
Minimum idling speed	rpm	650
Mean piston speed at rated speed	m/s	12.3
BMEP at max power	bar	8.6
Specific fuel consumption (best value)	g/kWh @ rpm	230 @ 1800
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
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 he	ours running, Fuel Diesel EN 590.	Power tolerance 5%.

POWER & TORQUE



		LEGEND		
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V (90° "V" configuration)	NA (Naturally Aspirated)	VGT (Variable Geometry Turbocharger)	CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)	rcooler) TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

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