



MARINE DATA SHEET

N45 100

73.5 kW

**Our efficiency.
Your edge.**

SPECIFICATIONS

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

STANDARD CONFIGURATION

Flywheel housing	SAE 3
Flywheel size	10"
Air filter	left side
Turbocharger	Naturally Aspirated (NA)
Heat exchanger	tube type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	included
Fuel filter	1
Fuel prefilter	included (loose)
Fuel pump	included
Oil filter	1
Oil sump	cast iron
Oil vapours blowby circuit	on valve cover
Oil heat exchanger	built in the crankcase
Oil filler	by cylinder head cover
Starter	12 V - 3 kW
Alternator	12 V - 90 A with W contact
Engine stop device	electrical excitation
Wiring harness	with negative to ground connection
Painting color	white "ICE"

Legend

Arrangement

L In line
V 90° "V" configuration

Air Handling

TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Turbocharger

WG Wastegate
VGT Variable Geometry Turbocharger
TST Twin Stage Turbocharger

Exhaust System

EGR Exhaust Gas Recirculation
SCR Selective Catalytic Reduction

Injection System

M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector
MPI Multi Point Injection

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 811 x 700 x 836 mm
Dry Weight	450 Kg

* Dimensions can be changed according to engine options

** Length at flywheel

ELECTRICAL SYSTEM

Voltage	12 V
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NOT INCLUDED IN STANDARD CONFIGURATION

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

RATING TYPE		A1	B	C	D
Maximum power [*]	kW(HP)	73,5 (100)	66.5 (90)	63 (85)	63 (85)
At speed	rpm	2800	2800	2800	2800
Maximum no load governed speed at max rating	rpm	3100	3100	3100	3100
Minimum idling speed	rpm	650	650	650	650
Mean piston speed at rated speed	m/s	12.3	12.3	12.3	12.3
BMEP at max power	bar	8.6	7.2	7.2	7.2
Specific fuel consumption at full load (best value)	g/kWh @ rpm	230 @ 1800	230 @ 1800	230 @ 1800	230 @ 1800
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

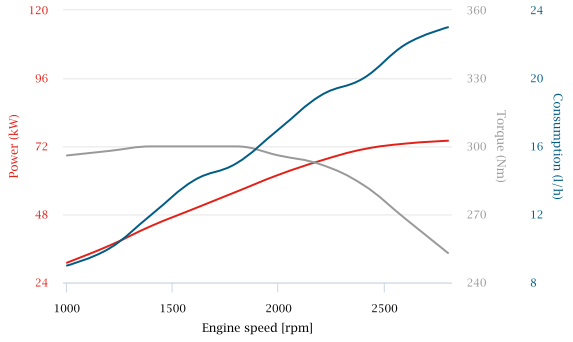
* Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

Rating

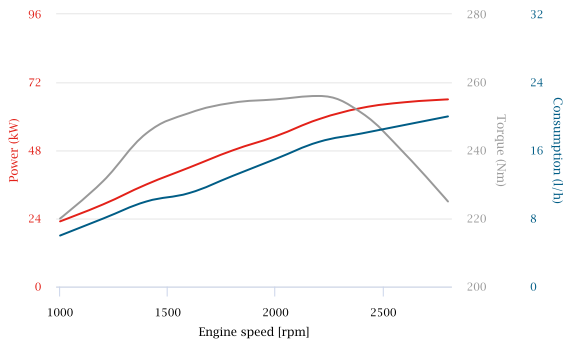
<p>A1 High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 300 hours per year.</p>	<p>B Light duty. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1500 hours per year.</p>
<p>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 useage 1000 hours per year.</p>	<p>C Medium duty. Full throttle operation <25% of use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 3000 hours per year.</p>
	<p>D Heavy duty.</p>

POWER & TORQUE

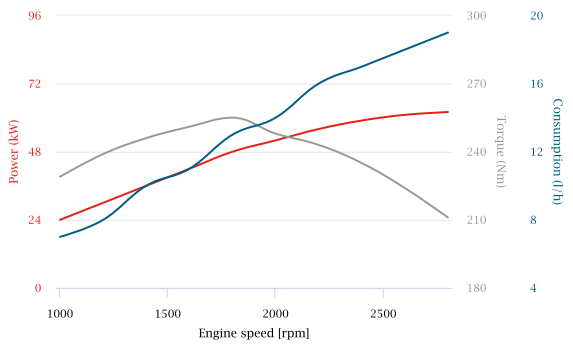
EU-RCD Stage I |
N45 100 73.5 kW -
Class A1 73.5 kW



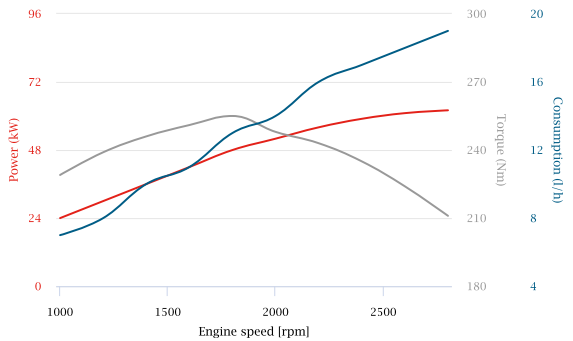
EU-RCD Stage I |
N45 100 73.5 kW -
Class B 66.5 kW

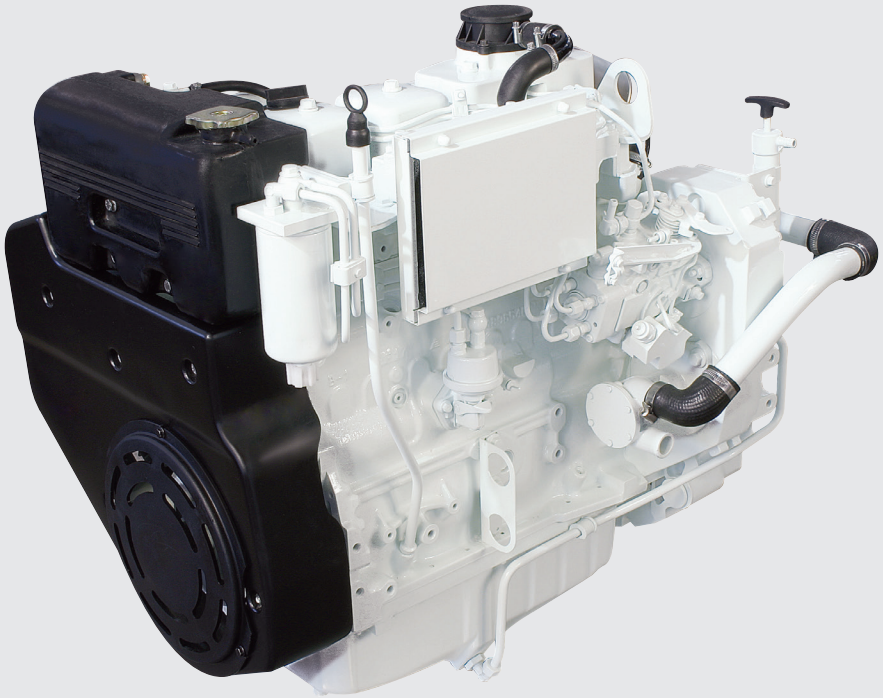


EU-RCD Stage I |
N45 100 73.5 kW -
Class C 63 kW



EU-RCD Stage I |
N45 100 73.5 kW -
Class D 63 kW





Rating type A1: 73.5 kW (100 HP) @ 2800 rpm
Rating type B: 66.5 kW (90 HP) @ 2800 rpm
Rating type C: 63 kW (85 HP) @ 2800 rpm
Rating type D: 63 kW (85 HP) @ 2800 rpm



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