

# Marine Commercial N45

# N45 100

66.5 kW

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

## SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke	
Air handling	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	

## STANDARD CONFIGURATION

Flywheel housing	type	SAE 3
Flywheel size	inch	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	number	1
Fuel prefilter	included (loose)	
Fuel pump	included	
Oil filter	number	1
Oil sump	cast iron	
Oil vapours blow-by circuit	on valve cover	
Oil heat exchanger	built in the crankcase	
Oil filler	by cylinder head cover	
Starter	12V - 3kW	
Alternator	12 V - 90 A with W contact	
Engine stop device	electrical excitation	
Wiring harness	with negative to ground connection	
Painting color	white "ICE"	

## WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	811 x 700 x 836
Dry Weight	Kg	450

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



MARINE

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

## 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)	ECR (Electronic 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** 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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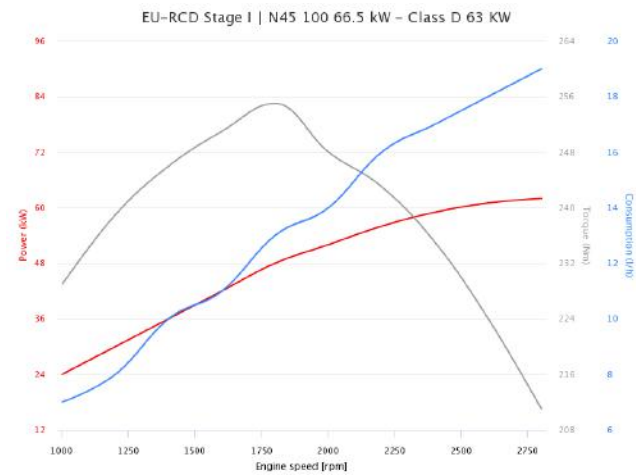
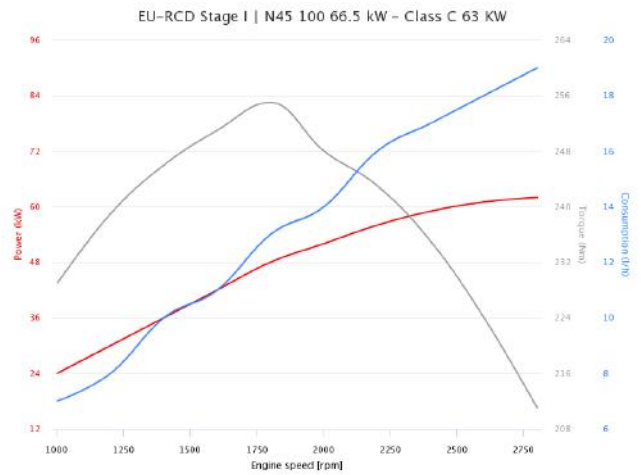
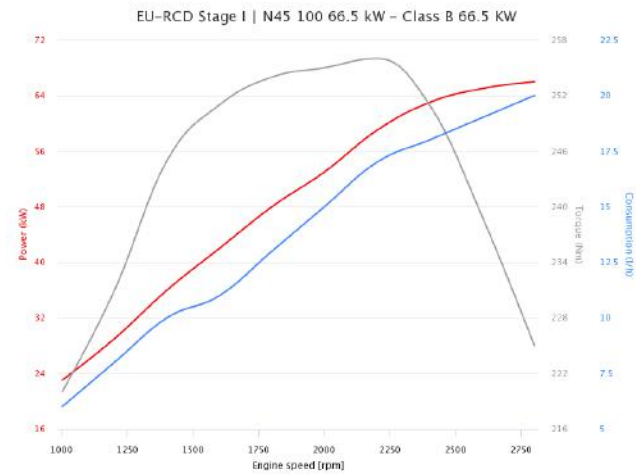


## RATING TYPE

		B	C	D
Maximum power [*]	kW (HP)	66.5 (90)	63 (85)	63 (85)
At speed	rpm	2800	2800	2800
Maximum no load governed speed at max rating	rpm	3100	3100	3100
Minimum idling speed	rpm	650	650	650
Mean piston speed at rated speed	m/s	12.3	12.3	12.3
BMEP at max power	bar	7.2	7.2	7.2
Specific fuel consumption at full load (best value)	g/kWh @ rpm	230 @ 1800	230 @ 1800	230 @ 1800
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 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

## POWER & TORQUE



### LEGEND

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