MARINE Commercial N45

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

SPECIFICATIONS

STANDARD CONFIGURATION

Exhaust gas water mixer - Exhaust cooled elbow

inch

number

number

Flywheel housing

Flywheel size

Turbocharger

Fuel filter

Fuel prefilter

Fuel pump

Oil filter

Oil sump

Oil filler

Heat excharger

Water charge tank

Oil vapours blow-by circuit

Oil heat exchanger

Air filter

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 fly	wheel)	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

/oltage	V	12

cast iron on valve cover

SAE 3

left side

tube type

included

included

included (loose)

built in the crankcase

by cylinder head cover

Naturally Aspirated (NA)

Starter 12V - 3kW 12 V - 90 A with W contact Engine stop device electrical excitation Wiring harness

with negative to ground connection Painting color white "ICE"

NOT INCLUDED IN STANDARD CONFIGURATION

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

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

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM

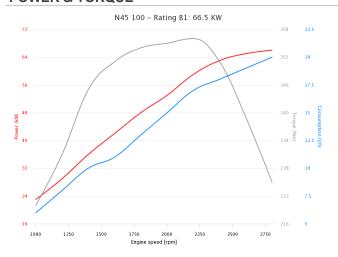
SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE





RATING TYPE		В	D
Maximum power [*]	kW (HP)	66.5 (90)	63 (85)
At speed	rpm	2800	2800
Maximum no load governed speed at max rating	rpm	3100	3100
Minimum idling speed	rpm	650	650
Mean piston speed at rated speed	m/s	12.3	12.3
BMEP at max power	bar	7.2	7.2
Specific fuel consumption (best value)	g/kWh @ rpm	230 @ 1800	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	= 0.1
Minimum starting temperature without auxiliaries	°C	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	600	600

POWER & TORQUE



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



Arrangement
L (in line)
V (90° "V" configuration)

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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