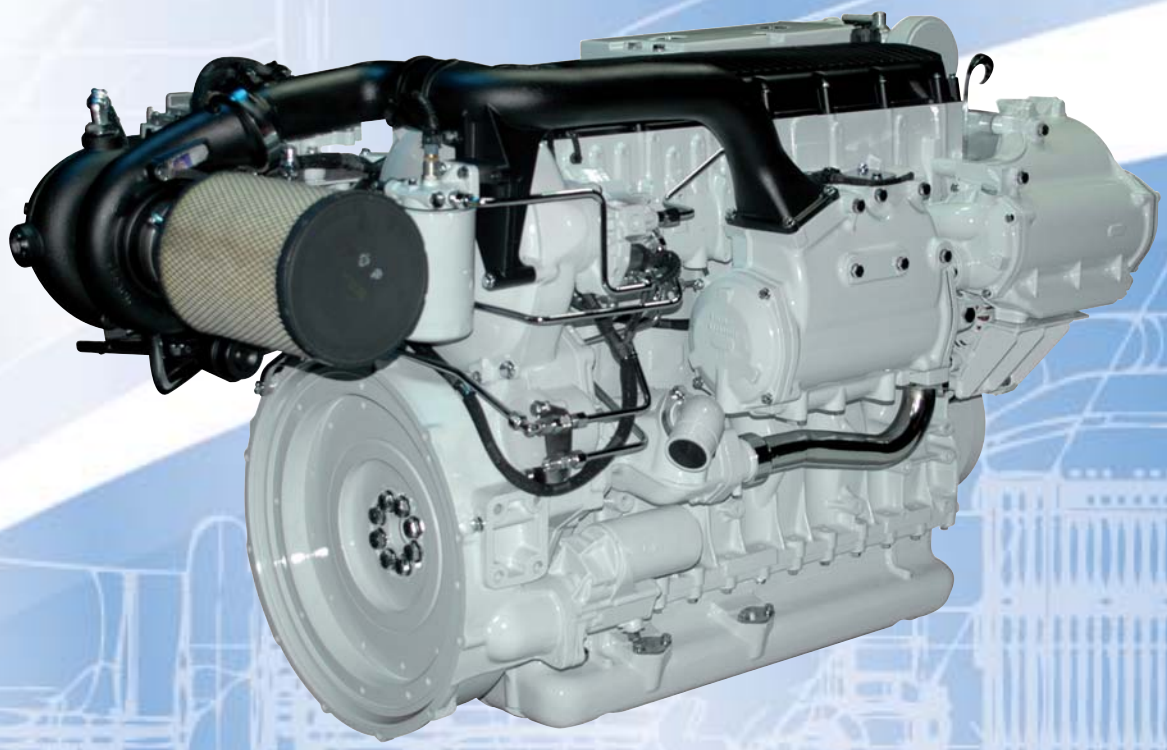
C90 620
C87 ENT M62

6 CYLINDERS IN LINE - DIESEL CYCLE
456 kW (620 HP) @ 2530 rpm (A1)
405 kW (550 HP) @ 2530 rpm (A2)
368 kW (500 HP) @ 2530 rpm (B)
331 kW (450 HP) @ 2530 rpm (C)



MARINE APPLICATIONS

FPT POWERTRAIN TECHNOLOGIES

C87 ENT M62 FOR MARINE APPLICATIONS

Thermodynamic cycle		Diesel 4 stroke
Air intake		TCA
Arrangement		6L
Bore x Stroke	mm	117 X 135
Total displacement	l	8.7
Valves per cylinder		4
Cooling		liquid
Direction of rotation (viewed facing flywheel)		CCW
Engine management		electronic
Injection system		Electronic Common Rail (E.C.R.)

Electrical system

Voltage	V	24

Standard configuration

Flywheel housing	type	SAE 1
Flywheel size	inch	14
Air filter		rear side
Turbocharger		water cooled
Heat exchanger		tube type
Exhaust cooled elbow		–
Water charge tank		included
Fuel filter	n°	1 - right side
Fuel prefilter		1 (loose)
Fuel pump		1 (gear type)
Oil filter	n°	2 - left side
Oil sump		aluminium
Oil vapours blow-by circuit		included
Oil heat exchanger		included
Oil filler		on timing cover
Starting motor		24 V - 5.5 kW
Alternator		28 V - 90 A
Engine stop device		by electronic central unit
Wiring harness		with EDC (Electronic Diesel Control)
Painting	colour	"ICE" white

Not included in the standard configuration

Battery - minimum capacity recommended	2 x 120 Ah
Battery - minimum cold cranking capacity recommended	900 A

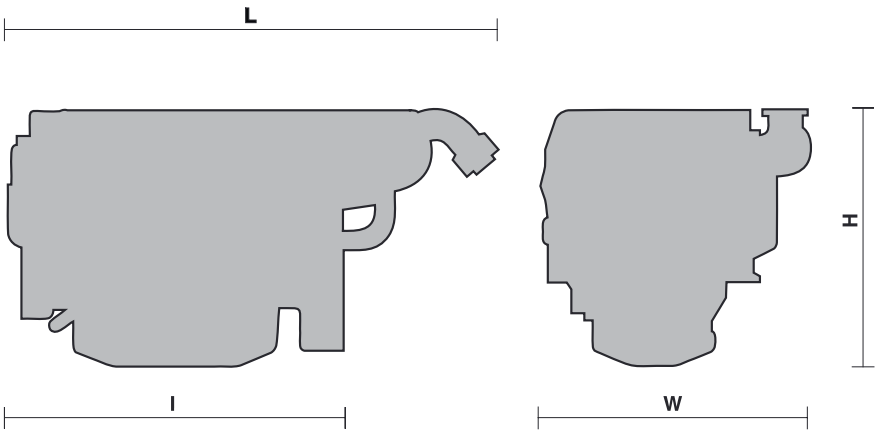
FPT OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.

C87 ENT M62 **FOR MARINE APPLICATIONS**

Rating type		A1	A2	B	C
Maximum power *	kW(HP)	456 (620)	405 (550)	368 (500)	331 (450)
At speed	rpm	2530	2530	2530	2530
Maximum no load governed speed at max rating	rpm	2700	2700	2700	2700
Minimum idling speed	rpm	600	600	600	600
Mean piston speed at rated speed	m/s	11.4	11.4	11.4	11.4
BMEP at max power	kg/cm^2	24.8	22.1	20.1	18.1
Specific fuel consumption at full load (best value)	g/kWh @ rpm		227.5		
Oil consumption at max rating	(% of fuel consumption)		≤ 0.2		
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%.*
Test conditions: *ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30% relative humidity.*

A1 = High performance crafts. **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 useage: - 300 hours per year (A1 service); - 1000 hours per year (A2 service).
B = Light duty. Full throttle operation restricted within 10% of total 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.



I = 1285 mm
L = 1695 mm
W = 780 mm
H = 960 mm
Dry weight (without marine gear) = 940 kg

ENGINE BENEFITS

- **PERFORMANCE:** Ratings, consumption and emissions optimisation due to electrical engine management and Electronic Common Rail system; high specific power; lightness (low weight/power ratio); compactness (low volume/power ratio); high torque at low rpms.
- **SERVICEABILITY:** Control, protection and diagnostic for the main engine components and parameters; widespread and quick service.
- **COST EFFECTIVENESS:** Fuel consumption reduction; maintenance and overhaul intervals extension.
- **ENVIRONMENTALLY FRIENDLY:** Noise, gaseous emissions and vibrations reduction.
- **CUSTOMER ORIENTATION:** Wideness of uses, propulsion certifications and emissions; availability of accessories range.

LOCAL DISTRIBUTOR

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