MARINE
Commercial
CURSOR 9

C90 620 E
426 kW

Rating type B1:	426 kW (580 HP) @ 2530 rpm
Rating type B1:	404 kW (550 HP) @ 2530 rpm
Rating type B:	368 kW (500 HP) @ 2530 rpm
Rating type C:	331 kW (450 HP) @ 2530 rpm

SPECIFICATIONS

Thermodynamic cycle		Diesel 4 stroke
Air Feeding		TCA
Cylinders arrangement		6L
Bore x Stroke	millimeters	117 x 135
Total displacement	liters	8.7
Valves per cylinder	number	0.004
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Engine management		by EDC (Electronic Diesel Control)
Injection System		CR

WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	mm	1288 x 868 x 962
Dry Weight	Kg	940

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

COMMERCIAL

STANDARD CONFIGURATION

Flywheel housing	type	SAE 1
Flywheel size	inch	14"
Air filter		rear side
Turbocharger		Waste Gate (water cooled) Turbo with Aftercooler (TCA)
Heat excharger		tube type
Exhaust gas water mixer - Exhaust cooled elbow		-
Water charge tank		included
Fuel filter	number	1 - right side
Fuel prefilter		included (loose)
Fuel pump		1 - gear driven
Oil filter	number	2 - left side
Oil sump		aluminium
Oil vapours blow-by circuit		included
Oil heat exchanger		included
Oil filler		by cylinder head cover
Starter		24V - 5.5kW
Alternator		28 V - 90 A
Engine stop device		by electronic central unit
Wiring harness		with negative to ground connection
Painting color		white “ICE”

ELECTRICAL SYSTEM

Voltage	V	0.024

NOT INCLUDED IN STANDARD CONFIGURATION

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

Do you want to know more? CONTACT US

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TC (Turbocharged)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
	NA (Naturally Aspirated)		CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)		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

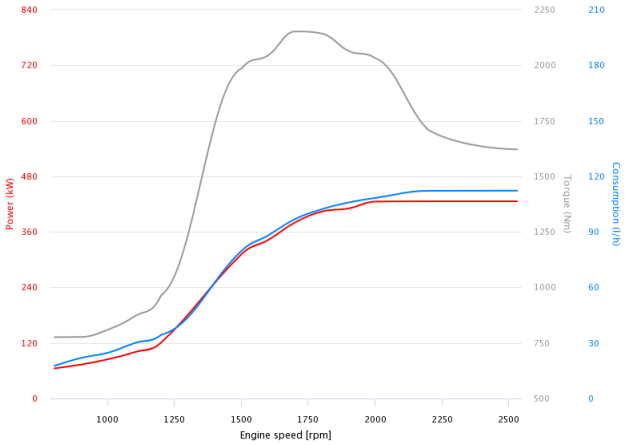
SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

RATING TYPE		B1	B1	B	C
Maximum power [*]	kW (HP)	426 (580)	404 (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
BMEP at max power	bar	23	22.1	20.1	18.1
Specific fuel consumption (best value)	g/kWh @ rpm	226	224,6	226,3	228.6
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.)	= 0.2	= 0.2	= 0.2	= 0.2
Minimum starting temperature without auxiliaries	°C	-10°	-10°	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	300	300	300	300

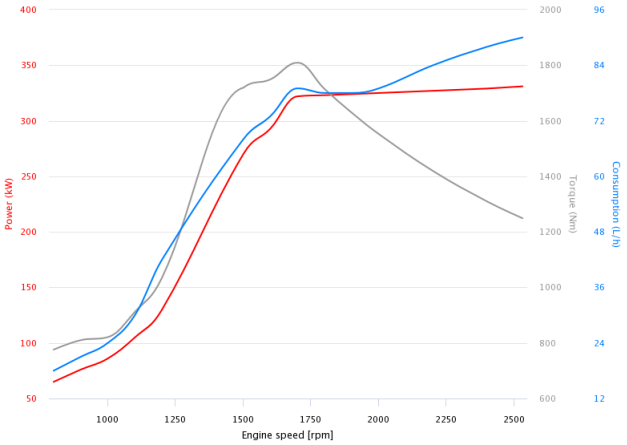
* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

POWER & TORQUE

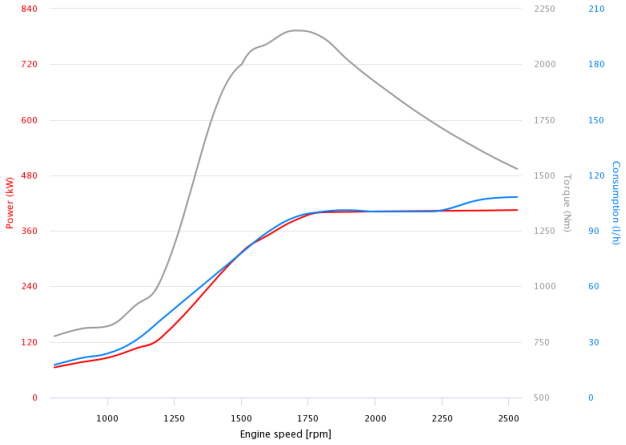
C90 620 E – Rating B1: 426 kW



C90 620 E – Rating C: 331 KW



C90 620 E – Rating B1: 404 kW



COMMERCIAL

LEGEND

Arrangement
L (in line)

Air Handling
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NA (Naturally Aspirated)
TCA (Turbocharged with aftercooler)

Turbocharger
WG (Wastegate)

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