



***MARINE DATA SHEET***

***C90 410***

**FIXED SPEED AUXILIARY**

**Our efficiency.  
Your edge.**

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air handling	TCA
Cylinders arrangement	6L
Bore x Stroke	117 x 135 mm
Total displacement	8.7 liters
Valves per cylinder	4
Cooling System	Liquid
Direction of Rotation (viewed facing flywheel)	CCW (Counterclockwise)
Engine management	Electronic
Injection System	CR

STANDARD CONFIGURATION

Flywheel housing	SAE 1
Flywheel size	14"
Air filter	Rear side
Turbocharger	Waste Gate (water cooled) Turbo with Aftercooler (TCA)
Cooling type	Heat Exchanger Tube Type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	Included
Fuel filter	1 - right side
Fuel prefilter	Included (loose)
Fuel pump	1 - gear driven
Oil filter	1 - left side
Oil sump	Aluminium
Oil vapours blowby circuit	Included
Oil heat exchanger	Included
Oil filler	By cylinder head cover
Starter	24 V - 5.5 kW
Alternator	28 V - 90 A
Engine stop device	By electronic central unit
Wiring harness	With negative to ground connection
Painting color	Grey RAL 7021

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  
CR Common Rail  
EUI Electronic Unit Injector  
MPI Multi Point Injection

WEIGHT AND DIMENSIONS\*

Dimensions	(L**xWxH) 1289 x 861 x 973 mm
Dry Weight	932 kg

\* Weight and dimensions can be changed according to engine options and configurations  
\*\* Lenght at flywheel

ELECTRICAL SYSTEM

Voltage	24 V
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NOT INCLUDED IN STANDARD CONFIGURATION - BASEFRAME AND GENSET ALTERNATOR  
(SOS DIESEL ENGINE ONLY)

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

RATING TYPE		PRP	PRP	PRP	PRP
Maximum power [*]	kWm	276	242	230	192
At speed	rpm	1800	1800	1500	1500
Minimum idling speed	rpm	600	600	600	600
Specific fuel consumption (rated speed)	g/kWh @ rpm	230 @ 1800	221 @ 1800	220 @1500	220 @ 1500
Oil consumption at max rating	(% of fuel cons.)	0,25%	0,25%	0,25%	0,25%
Minimum starting temperature without auxiliaries	°C	-10°	-10°	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	300	300	300	300

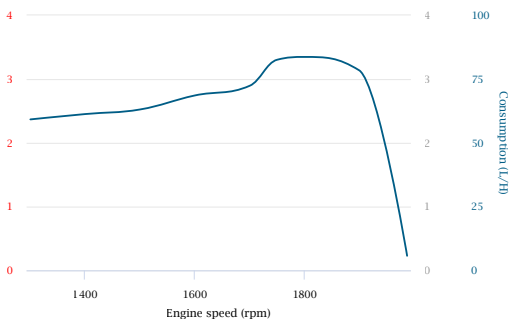
\* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590.  
Power tolerance 5%.

Rating

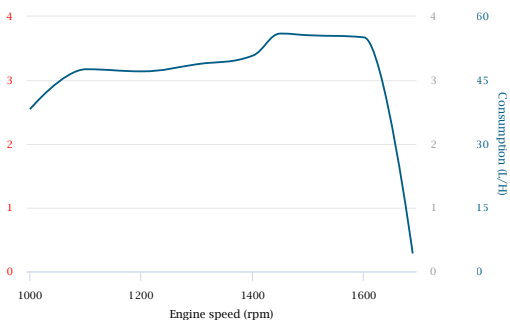
<b>A1</b>	High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 300 hours per year.	<b>C</b>	Medium duty. Full throttle operation <25% of use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 3000 hours per year.
<b>A2/B1</b>	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.	<b>D</b>	Heavy duty. Maximum rating utilization up to 100% of use period, for unlimited hours per year.
<b>B</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.	<b>PRP</b>	Prime Power conforms to ISO 8528.Unlimited hours per year. Maximum mean load factor of 70% of rated power over 24 h of operation. Overload +10% (maximum of 1 h in 12 h, maximum in 25 h per year)

FUEL CONSUMPTION CURVES

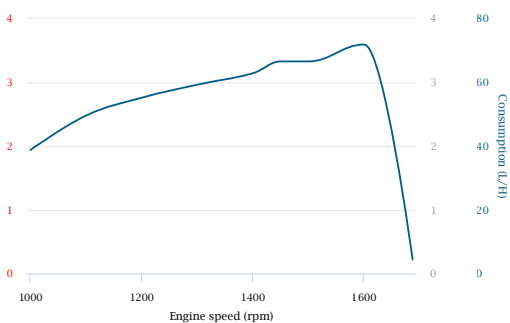
C90 410 Fixed Speed Auxiliary  
Rating PRP - 276 kWm  
Emission Standards:  
- IMO Marpol Tier 2



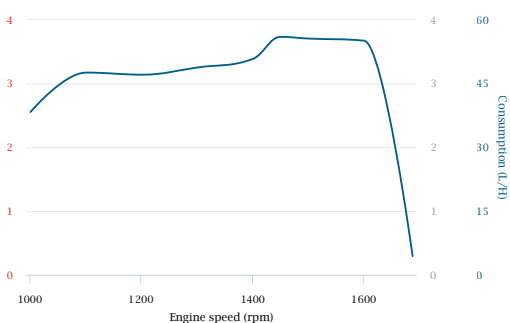
C90 410 Fixed Speed Auxiliary  
Rating PRP - 242 kWm  
Emission Standards:  
- IMO Marpol Tier 2

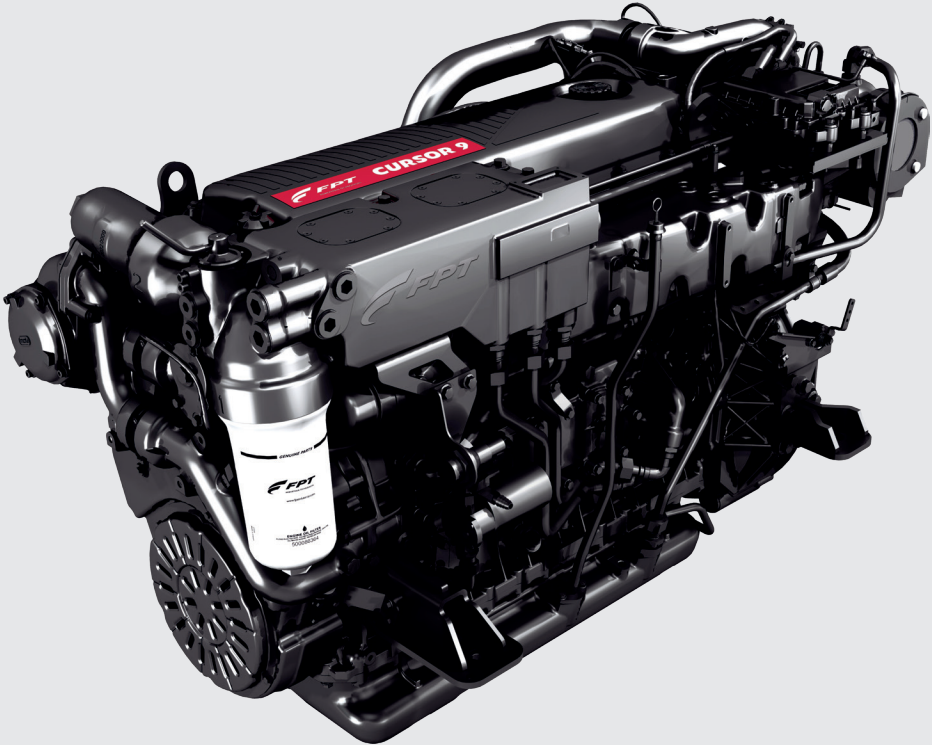


C90 410 Fixed Speed Auxiliary  
Rating PRP - 230 kWm  
Emission Standards:  
- IMO Marpol Tier 2



C90 410 Fixed Speed Auxiliary  
Rating PRP - 192 kWm  
Emission Standards:  
- IMO Marpol Tier 2





Rating type PRP: 276 kWm @ 1800 rpm  
Rating type PRP: 230 kWm @ 1500 rpm  
Rating type PRP: 242 kWm @ 1800 rpm  
Rating type PRP: 192 kWm @ 1500 rpm



FPT Industrial S.p.A.

Via Puglia 15, 10156  
Torino, Italy

[fptindustrial.com](http://fptindustrial.com)

[marketing@  
fptindustrial.com](mailto:marketing@fptindustrial.com)

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