



***MARINE DATA SHEET***

***C90 380***

**301 kW**

**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
Engine management	by EDC (Electronic Diesel Control)
Injection System	ECR

## STANDARD CONFIGURATION

Flywheel housing	SAE 3
Flywheel size	14"
Air filter	rear side
Turbocharger	Waste Gate (water cooled) Turbo with Aftercooler (TCA)
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	2 - 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	white "ICE"

## 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  
ECR Electronic Common Rail  
EUI Electronic Unit Injector  
MPI Multi Point Injection

## WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1288 x 868 x 961 mm
Dry Weight	940 Kg

\* Maximum can be changed according to engine options

\*\* Length at flywheel

## ELECTRICAL SYSTEM

Voltage	24 V
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## NOT INCLUDED IN STANDARD CONFIGURATION

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

## RATING TYPE

		C	D
Maximum power [*]	kW(HP)	301 (410)	280 (380)
At speed	rpm	2000	2000
Maximum no load governed speed at max rating	rpm	2200	2200
Minimum idling speed	rpm	600	600
Mean piston speed at rated speed	m/s	9	9
BMEP at max power	bar	21.2	19.6
Specific fuel consumption at full load (best value)	g/kWh @ rpm	214,9	210,3
Oil consumption at max rating	(% of fuel cons.)	= 0.2	= 0.2
Minimum starting temperature without auxiliaries	°C	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	500	500

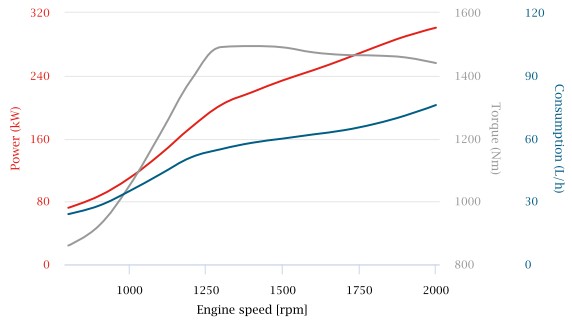
\* Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

## Rating

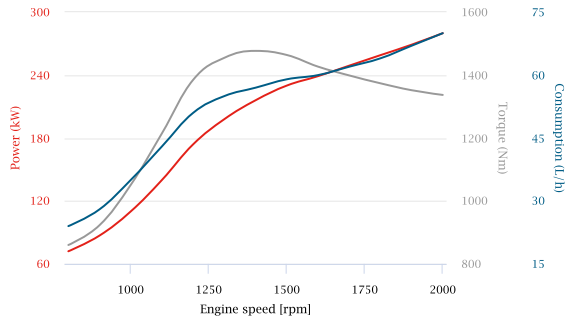
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|---|--|
| <p><b>A1</b> High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm &lt;90% of rated speed setting. Maximum useage 300 hours per year.</p> <p><b>A2=B1</b> Pleasure/commercial vessels. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm &lt;90% of rated speed setting. Maximum useage 1000 hours per year.</p> | <p><b>B</b> Light duty. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm &lt;90% of rated speed setting. Maximum useage 1500 hours per year.</p> <p><b>C</b> Medium duty. Full throttle operation &lt;25% of use period. Cruising speed at engine rpm &lt;90% of rated speed setting. Maximum useage 3000 hours per year.</p> <p><b>D</b> Heavy duty.</p> |
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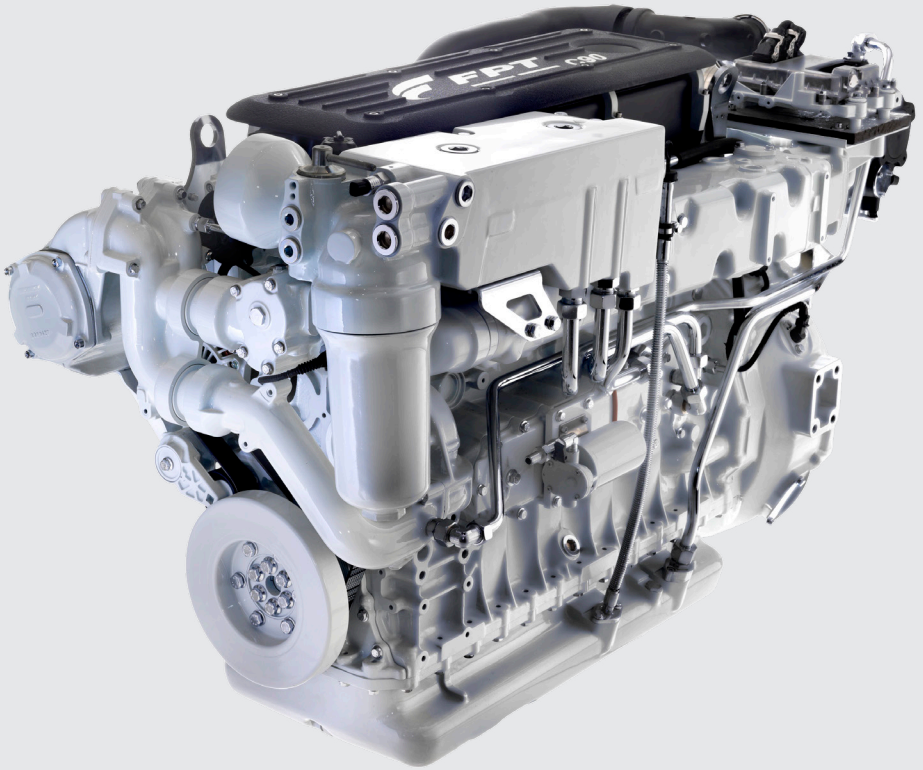
POWER & TORQUE

IMO MARPOL Tier2,  
IMO MARPOL CHINA  
EU-IWV Stage IIIA,  
EU-CCNR Stage II |  
C90 380 301 kW -  
Class C 301 kW



IMO MARPOL Tier2,  
IMO MARPOL CHINA  
EU-IWV Stage IIIA,  
EU-CCNR Stage II |  
C90 380 301 kW -  
Class D 280 kW





Rating type C: 301 kW (410 HP) @ 2000 rpm  
Rating type D: 280 kW (380 HP) @ 2000 rpm



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