



MARINE DATA SHEET (PRELIMINARY)

C16 1000

735 kW

**Our efficiency.
Your edge.**

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air handling	TCA
Cylinders arrangement	6L
Bore x Stroke	141 x 170 mm
Total displacement	15.9 liters
Valves per cylinder	4
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Engine management	by ECU (Electronic Control Unit)
Injection System	CR (Common Rail)

STANDARD CONFIGURATION

Flywheel housing	SAE 1
Flywheel size	14"
Air filter	rear side
Turbocharger	2 Waste Gate Single Stage (water cooled) Turbo with Aftercooler (TCA)
Heat exchanger	tube type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	included
Fuel filter	1 Rear Side
Fuel prefilter	included (loose)
Fuel pump	included
Oil filter	2 Left Side
Oil sump	aluminium
Oil vapours blowby circuit	rear
Oil heat exchanger	included
Oil filler	by cylinder head cover
Starter	24 V - 5.5 kW
Alternator	28 V - 120 A
Engine stop device	by ECU (Electronic Control 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) 1.465 x 1.136 x 1.160 mm
Dry Weight	1.690 Kg

* Dimensions 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	120 Ah
Battery - minimum cold cranking capacity recommended	900 Ah

RATING TYPE

		A2	B	C	C
Maximum power [*]	kW(HP)	735 (1000)	662 (900)	600 (815)	478 (650)
At speed	rpm	2300	2300	2300	2300
Maximum no load governed speed at max rating	rpm	2500	2500	2500	2500
Minimum idling speed	rpm	600	600	600	600
Mean piston speed at rated speed	m/s	13.03	13.03	13.03	13.03
BMEP at max power	bar	24.1	21.7	19.7	15.7
Specific fuel consumption at full load (best value)	g/kWh @ rpm	228	-	-	-
Oil consumption at max rating	(% of fuel cons.)	< 0.2	< 0.2	< 0.2	< 0.2
Oil and oil filter maintenance interval for replacement	hours	600	600	600	

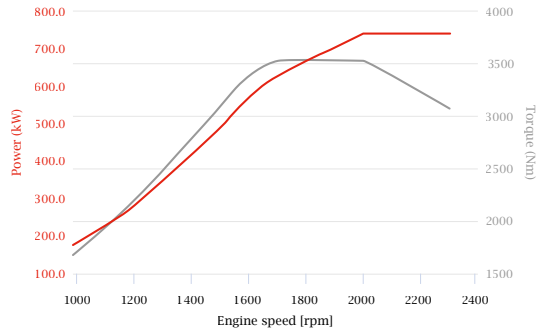
* Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

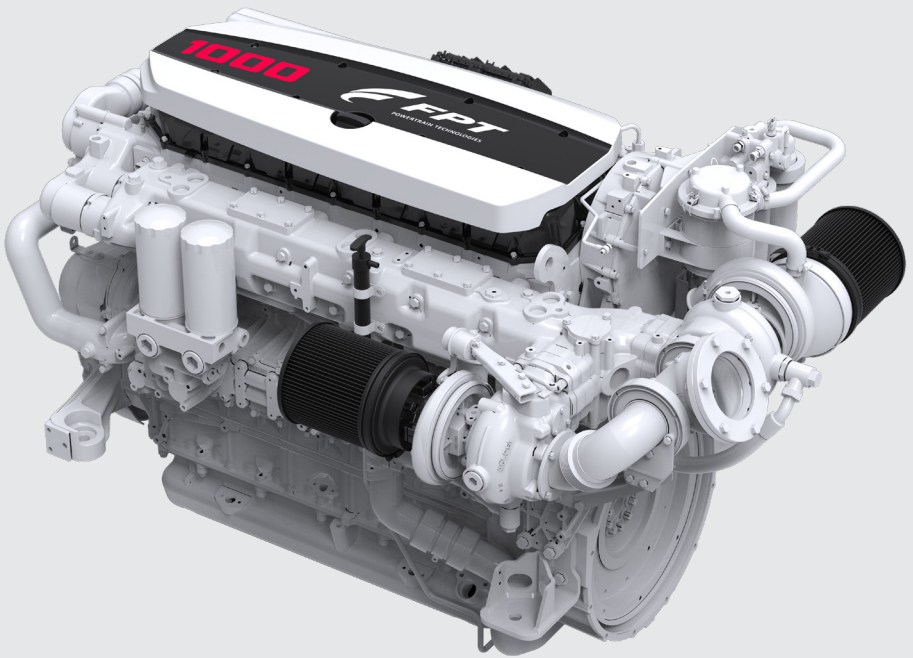
Rating

- | | |
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| <p>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 useage 300 hours per year.</p> <p>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 useage 1000 hours per year.</p> | <p>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.</p> <p>C 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.</p> <p>D Heavy duty.</p> |
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POWER & TORQUE

IMO MARPOL Tier2
EU-RCD Stage II
USA-EPA Tier3
C16 1000 735 kW - Class A2





Rating Type A2/B1: 735 kW (1000 HP) @ 2300 rpm
Rating Type A2/B: 662 kW (900 HP) @ 2300 rpm
Rating Type C: 600 kW (815 HP) @ 2300 rpm
Rating Type C: 478 kW (650 HP) @ 2300 rpm



FPT Industrial S.p.A.

Via Puglia 15, 10156
Torino, Italy

fptindustrial.com

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

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