

# MARINE

## Commercial

### CURSOR 13

# C13 500

382 kW

Rating type C: 382 kW (520 HP) @ 2000 rpm

Rating type D: 367 kW (500 HP) @ 2000 rpm

## SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke	
Air Feeding	TCA	
Cylinders arrangement	6L	
Bore x Stroke	millimeters	135 x 150
Total displacement	liters	12.9
Valves per cylinder	number	4
Cooling System	liquid	
Direction of Rotation (viewed facing flywheel)	CCW	
Engine management	by EDC (Electronic Diesel Control)	
Injection System	EUI	

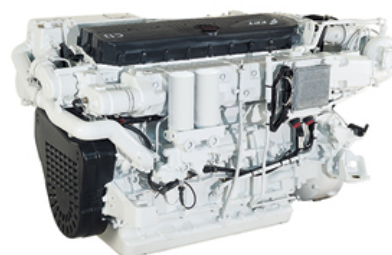
## STANDARD CONFIGURATION

Flywheel housing	type	SAE 1
Flywheel size	inch	14"
Air filter	rear side	
Turbocharger	Fixed Geometry (water cooled) Turbo with Aftercooler (TCA)	
Heat exchanger	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	24 V - 90 A	
Engine stop device	by electronic central unit	
Wiring harness	with negative to ground connection	
Painting color	white "ICE"	

## WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	mm	1465 x 1000 x 1058
Dry Weight	Kg	1345

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



COMMERCIAL

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## ELECTRICAL SYSTEM

Voltage	V	24
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## NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	2 x 180 Ah
Battery - minimum cold cranking capacity recommended	Ah	1200 Ah

Do you want to know more?

## LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TC (Turbocharged)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	NA (Naturally Aspirated)	VGT (Variable Geometry Turbocharger)	CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)	TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)	
			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

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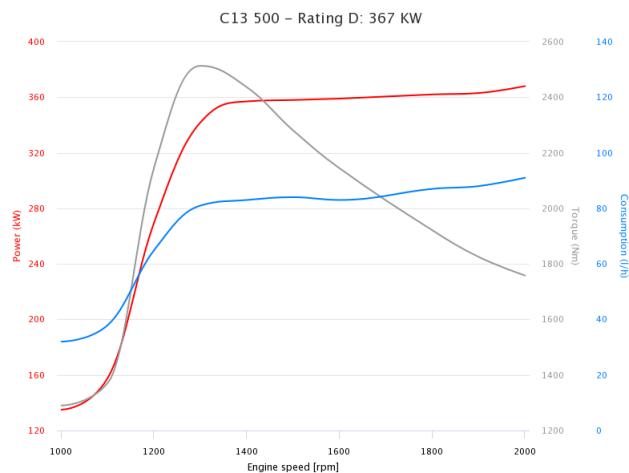
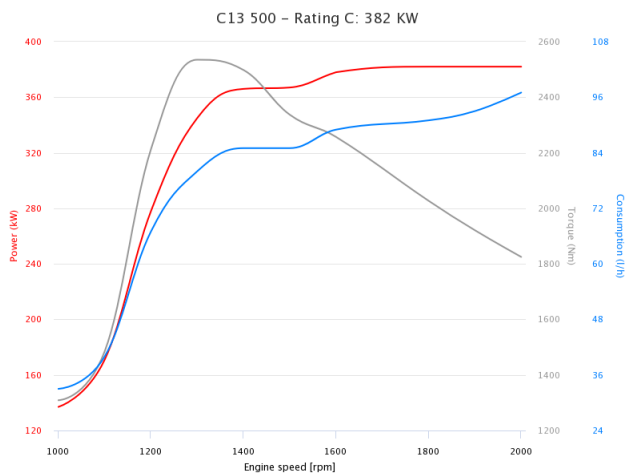


## RATING TYPE

		C	D
Maximum power [*]	kW (HP)	382 (520)	367 (500)
At speed	rpm	2000	2000
Maximum no load governed speed at max rating	rpm	2170	2170
Minimum idling speed	rpm	600	600
Mean piston speed at rated speed	m/s	10	10
BMEP at max power	bar	25.2	25
Specific fuel consumption (best value)	g/kWh @ rpm	195 @ 1400	195 @ 1400
IMO Marpol Tier 2 (IMO Annex VI Technical Code 2008)		✓	✓
RCD Stage 2 (2013/53/EC)		-	-
IWW 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
Minimum starting temperature without auxiliaries	°C	-15°	-15°
Oil and oil filter maintenance interval for replacement	hours	600	600

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

## POWER & TORQUE



COMMERCIAL

### LEGEND

<b>Arrangement</b>	<b>Air Handling</b>	<b>Turbocharger</b>	<b>Injection System</b>	<b>Exhaust System</b>
L (in line)	TC (Turbocharged)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	NA (Naturally Aspirated)	VGT (Variable Geometry Turbocharger)	CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)	TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

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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

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# MARINE

## Commercial

### CURSOR 13

# C13 825 E

551 kW

Rating type B1: 551 kW (750 HP) @ 2400 rpm  
 Rating type B: 478 kW (650 HP) @ 2400 rpm  
 Rating type C: 441 kW (600 HP) @ 2400 rpm

## SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke	
Air Feeding	TCA	
Cylinders arrangement	6L	
Bore x Stroke	millimeters	135 x 150
Total displacement	liters	12.9
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	EUI	

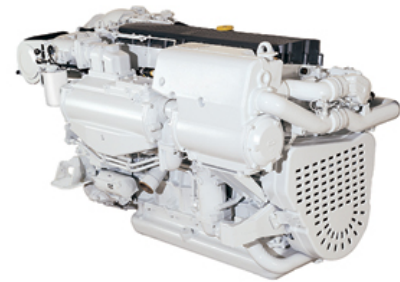
## STANDARD CONFIGURATION

Flywheel housing	type	SAE 1
Flywheel size	inch	14"
Air filter	rear side	
Turbocharger	e Gate (water cooled) Turbo in parallel with Aftercooler (TCA)	
Heat exchanger	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	0.002
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"	

## WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	mm	1465 x 1000 x 1058
Dry Weight	Kg	1395

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



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## ELECTRICAL SYSTEM

Voltage	V	0.024
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## NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	2 x 180 Ah
Battery - minimum cold cranking capacity recommended	Ah	1200 Ah

Do you want to know more?

## LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TC (Turbocharged)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	NA (Naturally Aspirated)	VGT (Variable Geometry Turbocharger)	CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)	TST (Twin Stage Turbocharger)	EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

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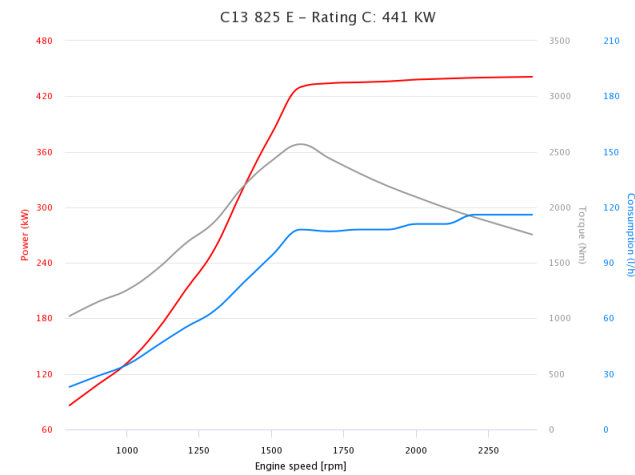
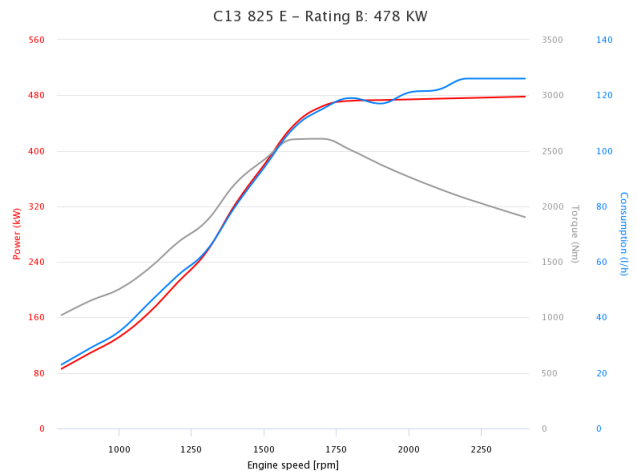
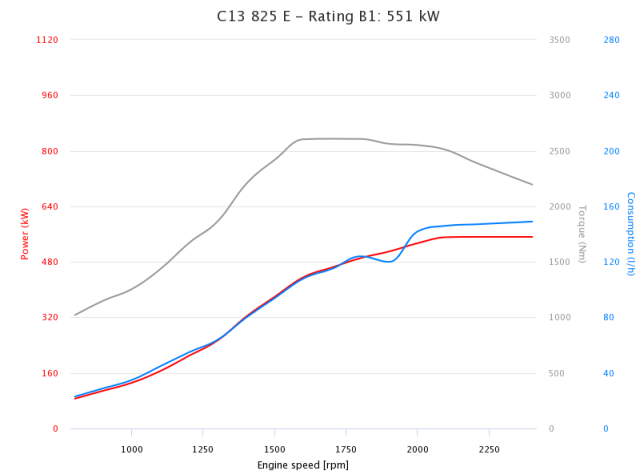


# RATING TYPE

		B1	B	C
Maximum power [*]	kW (HP)	551 (750)	478 (650)	441 (600)
At speed	rpm	2400	2400	2400
Maximum no load governed speed at max rating	rpm		2580	2580
Minimum idling speed	rpm		600	600
Mean piston speed at rated speed	m/s		12	12
BMEP at max power	bar		17.8	16.4
Specific fuel consumption (best value)	g/kWh @ rpm	227	220.7 @ 2400	221.6 @2400
IMO Marpol Tier 2 (IMO Annex VI Technical Code 2008)		✓	✓	✓
RCD Stage 2 (2013/53/EC)		✓	✓	✓
IWW 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
Minimum starting temperature without auxiliaries	°C	-10°	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	600	600	600

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

# POWER & TORQUE



### LEGEND

<b>Arrangement</b>	<b>Air Handling</b>	<b>Turbocharger</b>	<b>Injection System</b>	<b>Exhaust System</b>
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