

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	4
Cooling System	Liquid	
Direction of Rotation (viewed facing flywheel)	CCW (Counterclockwise)	
Engine management	Electronic	
Injection System	CR	

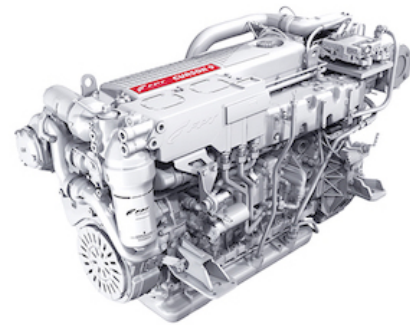
STANDARD CONFIGURATION

Flywheel housing	type	SAE 1
Flywheel size	inch	14"
Air filter	Rear side	
Turbocharger	Waste Gate (water cooled) Turbo with Aftercooler (TCA)	
Heat 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	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"	

WEIGHT AND DIMENSIONS

Dimensions (L x W x H)	mm	1288 x 863 x 962
Dry Weight	Kg	950

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

ELECTRICAL SYSTEM

Voltage	V	24 V
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NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	120 Ah
Battery - minimum cold cranking capacity recommended	Ah	900 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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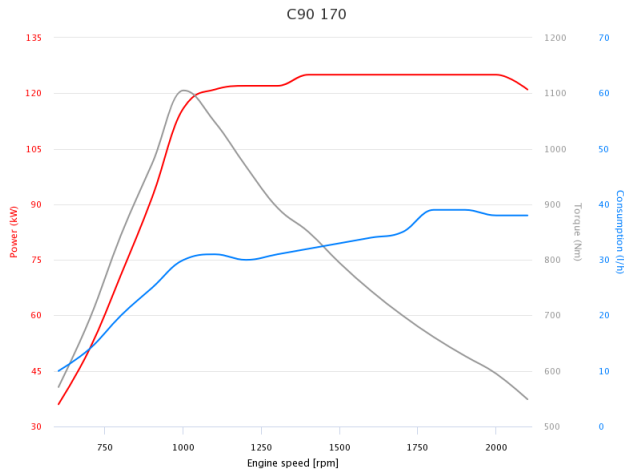
RATING TYPE

D

Maximum power [*]	kW (HP)	125 (170)
At speed	rpm	2000
Maximum no load governed speed at max rating	rpm	2200
Minimum idling speed	rpm	600
Mean piston speed at rated speed	m/s	8.8
BMEP at max power	bar	11.3
Specific fuel consumption (best value)	g/kWh @ rpm	207@1200
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.)	0.25
Minimum starting temperature without auxiliaries	°C	-10°
Oil and oil filter maintenance interval for replacement	hours	600

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

POWER & TORQUE



COMMERCIAL

LEGEND

Arrangement

- L (in line)
- V (90° "V" configuration)

Air Handling

- TC (Turbocharged)
- NA (Naturally Aspirated)
- TCA (Turbocharged with aftercooler)

Turbocharger

- WG (Wastegate)
- VGT (Variable Geometry Turbocharger)
- TST (Twin Stage Turbocharger)

Injection System

- M (Mechanical)
- CR (Common Rail)
- EUI (Electronic Unit Injector)
- MPI (Multi Point Injection)

Exhaust System

- EGR (Exhaust Gas Recirculation)
- SCR (Selective Catalytic Reduction)

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D Heavy Duty

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MARINE

Commercial

CURSOR 9

C90 380

301 kW

Rating type C: 301 kW (410 HP) @ 2000 rpm
 Rating type D: 279 kW (380 HP) @ 2000 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	4
Cooling System	liquid	
Direction of Rotation (viewed facing flywheel)	CCW	
Engine management	by EDC (Electronic Diesel Control)	
Injection System	CR	

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 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	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	1288 x 863 x 962
Dry Weight	Kg	950

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 120 Ah
Battery - minimum cold cranking capacity recommended	Ah	900 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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 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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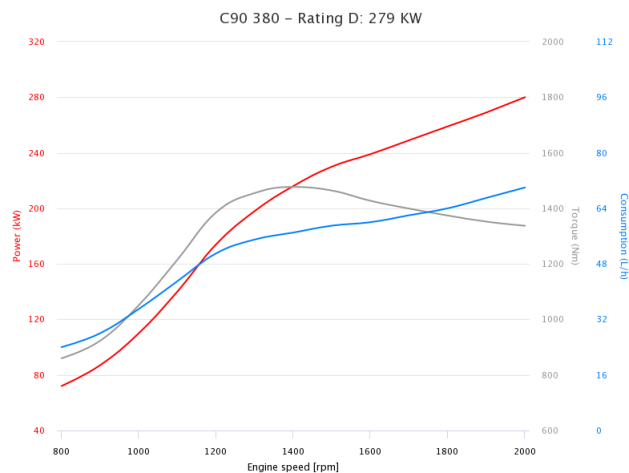
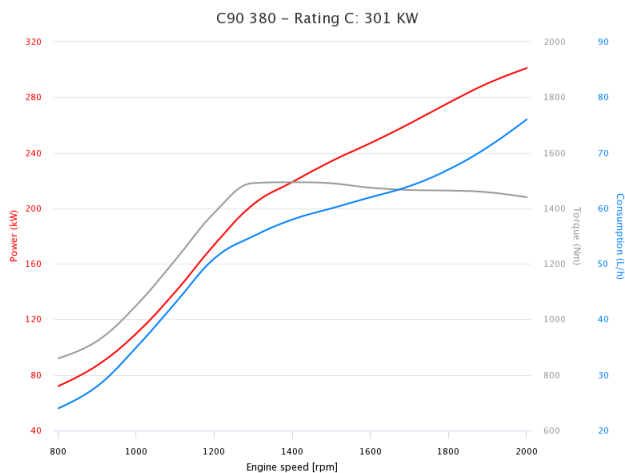


RATING TYPE

		C	D
Maximum power [*]	kW (HP)	301 (410)	279 (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 (best value)	g/kWh @ rpm	214,9	210,3
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	-10°	-10°
Oil and oil filter maintenance interval for replacement	hours	500	500

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

POWER & TORQUE



COMMERCIAL

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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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 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	

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 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	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	1288 x 868 x 962
Dry Weight	Kg	940

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



COMMERCIAL

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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 120 Ah
Battery - minimum cold cranking capacity recommended	Ah	900 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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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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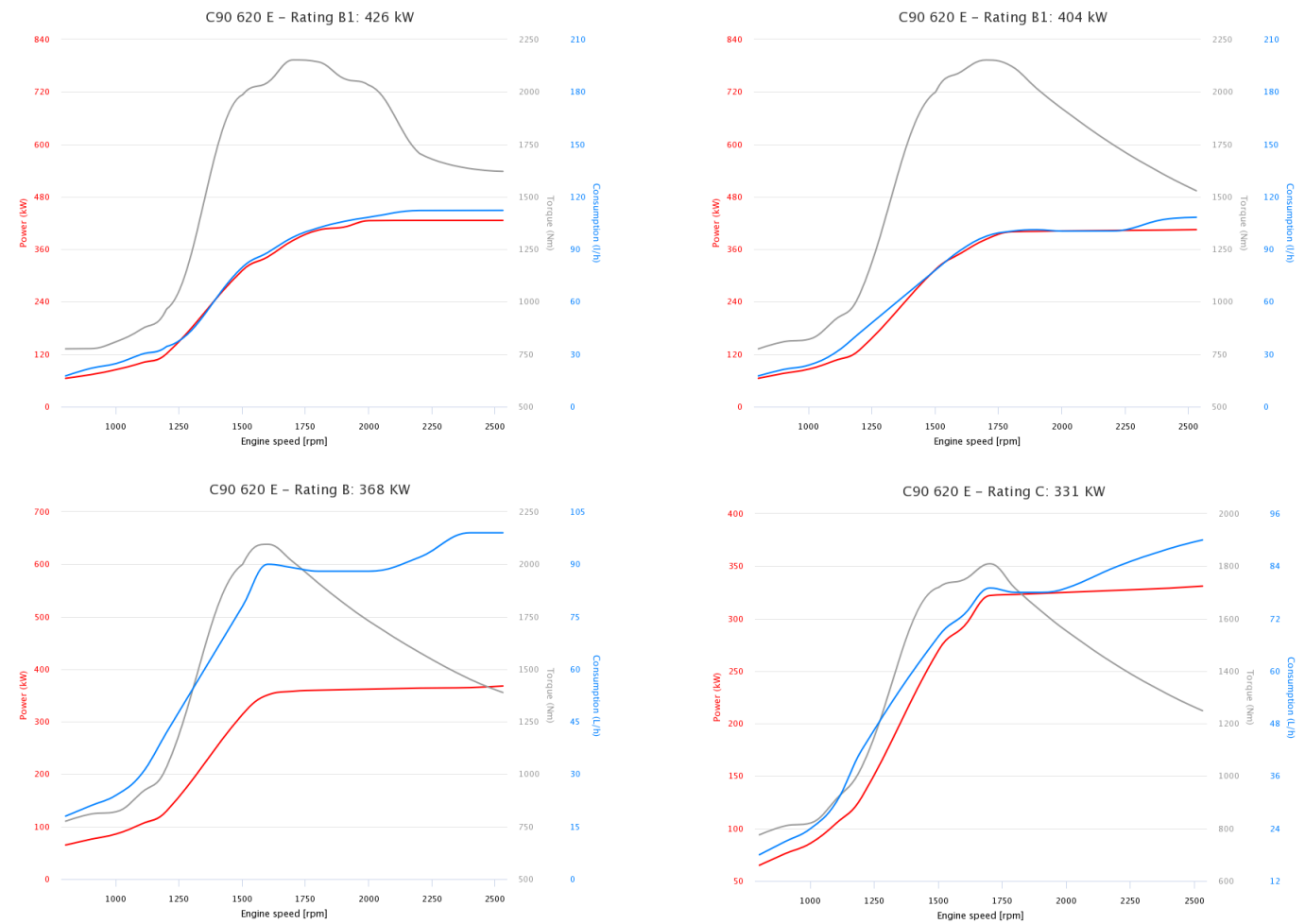


RATING TYPE

		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	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)		✓	✓	✓	✓
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	= 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



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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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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