

# 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                                 |           |

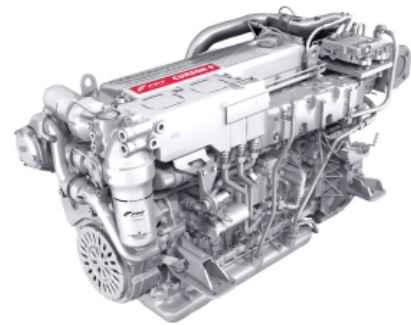
## STANDARD CONFIGURATION

|  |  |                |
|--|--|----------------|
| 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

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## ELECTRICAL SYSTEM

|         |   |       |
|---------|---|-------|
| Voltage | V | 0.024 |
|---------|---|-------|

## 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 Turbocharge)         | 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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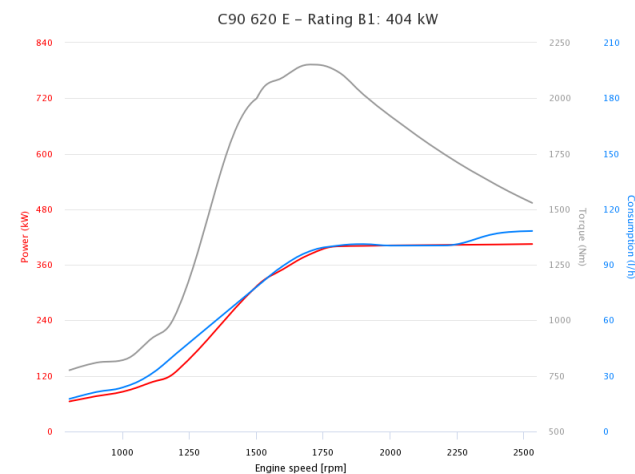
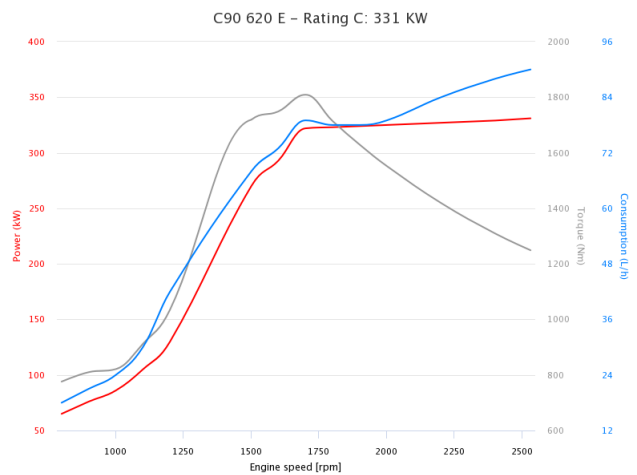
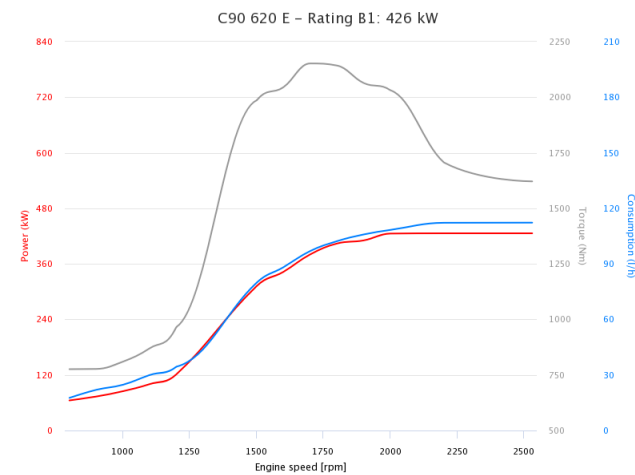


# RATING TYPE

|   |                   | 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



COMMERCIAL

### LEGEND

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