

SPECIFICATIONS

| | | |
|--|-----------------|------------|
| Thermodynamic cycle | Diesel 4 stroke | |
| Air Feeding | TCA | |
| Cylinders arrangement | 4L | |
| Bore x Stroke | millimeters | 95.8 x 104 |
| Total displacement | liters | 3 |
| Valves per cylinder | number | 4 |
| Cooling System | liquid | |
| Direction of Rotation (viewed facing flywheel) | CCW | |
| Engine management | electronic | |
| Injection System | CR | |

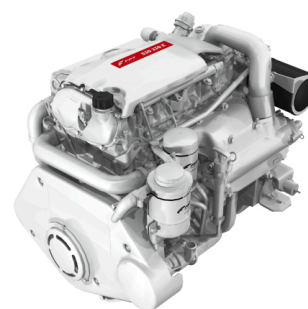
STANDARD CONFIGURATION

| | | |
|--|--|-------|
| Flywheel housing | type | SAE 4 |
| Flywheel size | inch | 8" |
| 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 |
| Fuel prefilter | included (loose) | |
| Fuel pump | included | |
| Oil filter | number | 1 |
| Oil sump | aluminium | |
| Oil vapours blowby circuit | front | |
| Oil heat exchanger | built in the crankcase | |
| Oil filler | on front cover | |
| Starter | 12V - 2.3kW | |
| Alternator | 12 V - 110 A | |
| Engine stop device | by electronic central unit | |
| Wiring harness | with EDC (Electronic Diesel Control) | |
| Painting color | white "ICE" | |

WEIGHT AND DIMENSIONS

| | | |
|------------------------|----|-----------------|
| Dimensions (L x W x H) | mm | 780 x 775 x 753 |
| Dry Weight | Kg | 330 |

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

ELECTRICAL SYSTEM

| | | |
|---------|---|----|
| Voltage | V | 12 |
|---------|---|----|

NOT INCLUDED IN STANDARD CONFIGURATION

| | | |
|--|----|--------|
| Battery - minimum capacity recommended | Ah | 110 Ah |
| Battery - minimum cold cranking capacity recommended | Ah | 800 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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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



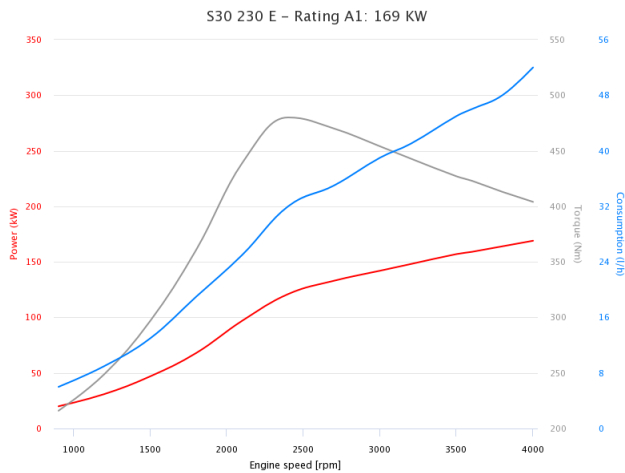
RATING TYPE

A1

| | | |
|---|-------------------|------------|
| Maximum power [*] | kW (HP) | 169 (230) |
| At speed | rpm | 4000 |
| Maximum no load governed speed at max rating | rpm | 4280 |
| Minimum idling speed | rpm | 750 |
| Mean piston speed at rated speed | m/s | 13.9 |
| BMEP at max power | bar | 20.5 |
| Specific fuel consumption (best value) | g/kWh @ rpm | 252 @ 4000 |
| 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 |
| 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



PLEASURE

LEGEND

| | | | | |
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