

# MARINE Commercial N67

# N67 450 N

309 kW

|                 |                            |
|-----------------|----------------------------|
| Rating type B1: | 309 kW (420 HP) @ 3000 rpm |
| Rating type B:  | 272 kW (370 HP) @ 3000 rpm |
| Rating type C:  | 257 kW (350 HP) @ 3000 rpm |
| Rating type D:  | 125 kW (170 HP) @ 2300 rpm |
| Rating type D:  | 215 kW (292 HP) @ 2000 rpm |

## SPECIFICATIONS

|                                                |                                    |
|------------------------------------------------|------------------------------------|
| Thermodynamic cycle                            | Diesel 4 stroke                    |
| Air Feeding                                    | TCA                                |
| Cylinders arrangement                          | 6L                                 |
| Bore x Stroke                                  | millimeters 104 x 132              |
| Total displacement                             | liters 6.7                         |
| 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                                 |

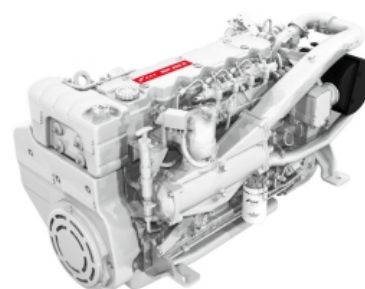
## STANDARD CONFIGURATION

|                                                |                                                        |                                    |
|------------------------------------------------|--------------------------------------------------------|------------------------------------|
| Flywheel housing                               | type                                                   | SAE 3                              |
| Flywheel size                                  | inch                                                   | 11" ½                              |
| 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 - left side                      |
| Fuel prefilter                                 |                                                        | included (loose)                   |
| Fuel pump                                      |                                                        | included                           |
| Oil filter                                     | number                                                 | 1 - right side                     |
| Oil sump                                       |                                                        | aluminium                          |
| Oil vapours blow-by circuit                    |                                                        | rear                               |
| Oil heat exchanger                             |                                                        | built in the crankcase             |
| Oil filler                                     |                                                        | by cylinder head cover             |
| Starter                                        |                                                        | 12V - 3kW                          |
| Alternator                                     |                                                        | 12 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 | 1089 x 780 x 788 |
| Dry Weight             | Kg | 600              |

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## ELECTRICAL SYSTEM

|         |   |       |
|---------|---|-------|
| Voltage | V | 0.012 |
|---------|---|-------|

## 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)<br>NA (Naturally Aspirated)<br>TCA (Turbocharged with aftercooler) | WG (Wastegate) | M (Mechanical)<br>CR (Common Rail)<br>MPI (Multi Point Injection) | EGR (Exhaust Gas Recirculation)<br>SCR (Selective Catalytic Reduction) |

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

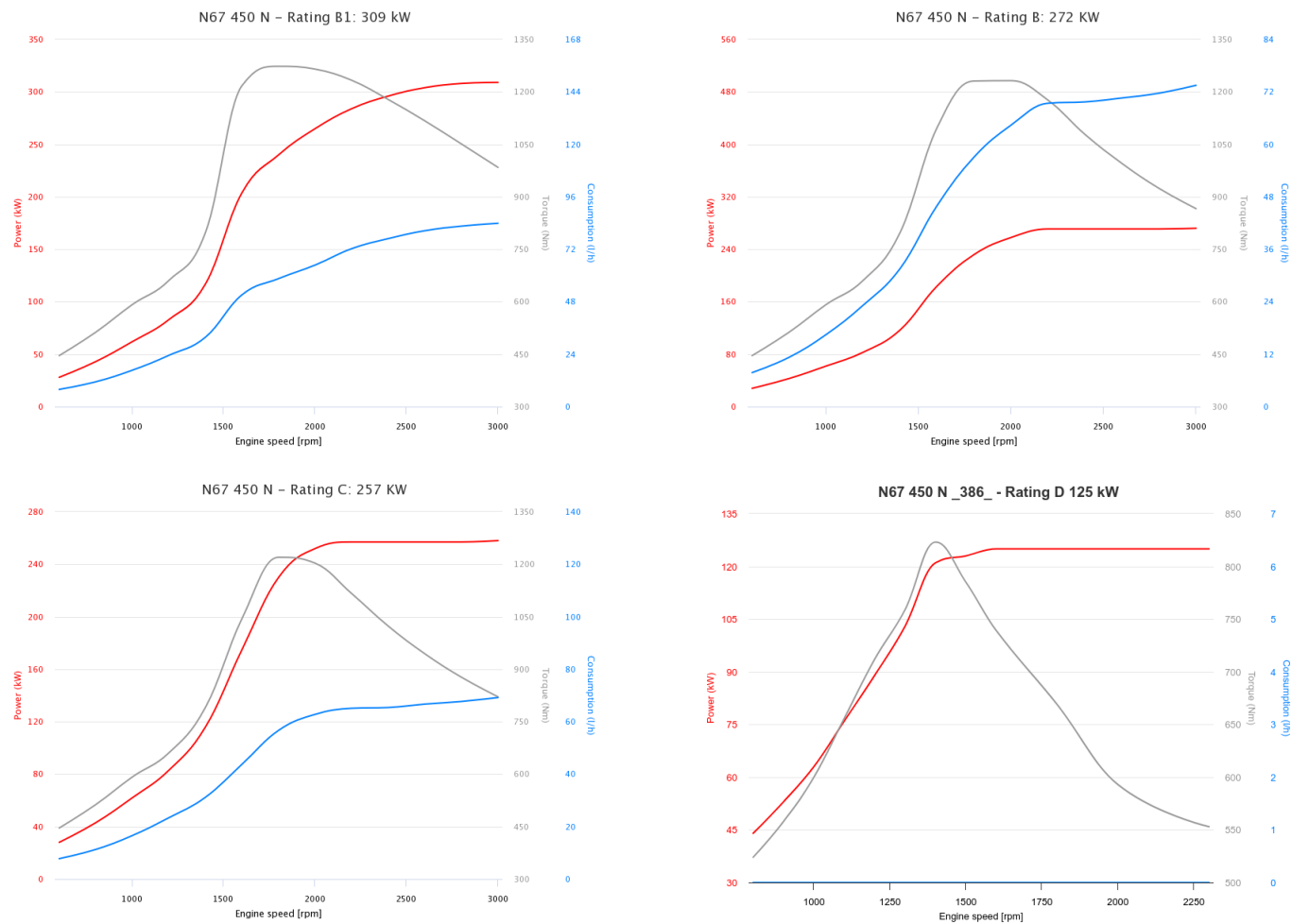
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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



| RATING TYPE                                                                                                    |                   | B1         | B          | C          | D         | D         |
|----------------------------------------------------------------------------------------------------------------|-------------------|------------|------------|------------|-----------|-----------|
| Maximum power [*]                                                                                              | kW (HP)           | 309 (420)  | 272 (370)  | 257 (350)  | 125 (170) | 215 (292) |
| At speed                                                                                                       | rpm               | 3000       | 3000       | 3000       | 2300      | 2000      |
| Maximum no load governed speed at max rating                                                                   | rpm               | 31500      | 3150       | 3150       |           |           |
| Minimum idling speed                                                                                           | rpm               | 600        | 600        | 600        |           |           |
| Mean piston speed at rated speed                                                                               | m/s               | 13.2       | 13.2       | 13.2       |           |           |
| BMEP at max power                                                                                              | bar               |            | 23.5       | 23         |           |           |
| Specific fuel consumption (best value)                                                                         | g/kWh @ rpm       | 228 @ 3000 | 227 @ 3000 | 225 @ 3000 |           |           |
| 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     | = 0.2     |
| Minimum starting temperature without auxiliaries                                                               | °C                | -10°       | -10°       | -10°       | -10°      | -10°      |
| Oil and oil filter maintenance interval for replacement                                                        | hours             | 600        | 600        | 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

| Arrangement | Air Handling                                                                         | Turbocharger   | Injection System                                                  | Exhaust System                                                         |
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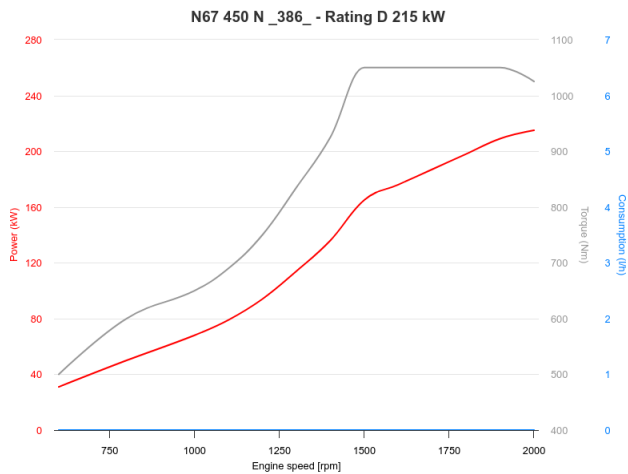
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D Heavy Duty

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COMMERCIAL



LEGEND

| Arrangement | Air Handling                                                                         | Turbocharger   | Injection System                                                  | Exhaust System                                                         |
|-------------|--------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------|------------------------------------------------------------------------|
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