N45 100

PLEASURE - Diesel 70 kW(100 HP) @ 2800 rpm (A1)

66,5 kW(90 HP) @ 2800 rpm (B) 63 kW(85 HP) @ 2800 rpm (C)

NEF series

| SPECIFICATIONS | |
|--|-----------------|
| Thermodynamic Cycle | Diesel 4 stroke |
| Air Handling | NA |
| Arrangement | 4L |
| Bore x Stroke (mm) | 104 X 132 |
| Total Displacement (I) | 4,5 |
| Valves per cylinder (n°) | 2 |
| Cooling System | liquid |
| Direction of Rotation (viewed facing flywheel) | CCW |
| Engine management | mechanical |
| InjectionSystem | MPI |

| STANDARD CONFIGURATION | |
|--|---------------------------|
| Flywheel housing (type) | SAE 3 |
| Flywheel size (inch) | 10 |
| Air Filter | left side |
| Turbocharger | Naturally Aspirated (NA) |
| Heat Excharger | tube type |
| Exhaust gas water mixer - Exhaust cooled elbow | - |
| Water charge tank | included |
| Fuel filter (n°) | 1 |
| Fuel prefilter | included (loose) |
| Fuel Pump | included |
| Lift pump | - |
| Oil filter (n°) | 1 |
| Oil sump | cast iron |
| Oil vapours blow-by circuit | on valve cover |
| Oil heat exchanger | built in the crankcase |
| Oil filler | by cylinder head cover |
| Starter | 12V - 3kW |
| Alternator | 12V - 90A with W |
| Alternator | contact |
| Engine stop device | electrical excitation |
| Wiring harness | with negative to |
| | ground connection |
| Painting color | white "ICE" |



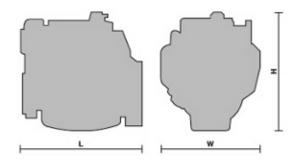
| ELECTRICAL SYSTEM | |
|--|----|
| Voltage | 12 |
| | |
| NOT INCLUDED IN CTANDARD CONFIGURATION | |

NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended [*] (Ah) 180

Battery - minimum cold cranking capacity recommended [*] (A) 800

WEIGHT AND DIMENSIONS



L = 811 W = 700 H = 836 Dry Weight (without marine gear)= Kg 450

Legend

Arrangement Air Handling Turbocharger InjectionSystem

L (in line) TAA (Turbocharged with aftercooler) TC (Turbocharged) NA (Naturally Aspirated) Turbocharger) Turbocharg

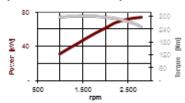
FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM

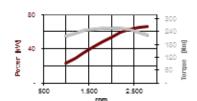


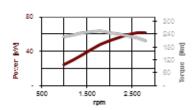


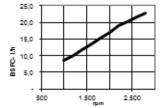
| RATING TYPE | A1 | A2 | В | C |
|---|-------------------|----|--------------------|------------------|
| Maximum power (kW(HP)@rpm) | 70 (100) @ 2800 | - | 66,5 (90) @ 2800 | 63 (85) @ 2800 |
| High idle speed (rpm) | 3100 | - | 3100 | 3100 |
| Low idle speed (rpm) | ± 650 | | ± 650 | ± 650 |
| Mean piston speed at rated speed (m/s) | 12,3 | - | 12,3 | 12,3 |
| BMEP at max power (kg/cm) | 8,6 | - | 7,2 | 7,2 |
| Specific fuel consumption at full load (best value) (g/kWh @ rpm) | 230 @ 1800 | - | 230 @ 1800 | 230 @ 1800 |
| Oil consumption at max rating (% of fuel cons.) | | | ≤ 0.1 | |
| Minimum starting temperature without auxiliaries (°C) | | | -10 ° | |
| Oil and oil filter maintenance interval for replacement [***] (hours) | | | 600 | |

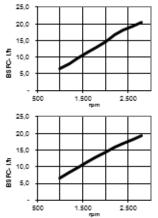
^{*} Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.











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. 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. 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. 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. Heavy Duty

| FEATURES | BENEFITS |
|--|--|
| INJECTION SYSTEM The NEF Series mechanical fuel injection system is characterized by advanced components ensuring high/continuous power and torque performance also at lower rpm, reliability, low fuel consumption and exhaust gas emissions, low servicing costs. | HIGH TORQUE AND POWER PERFORMANCEMINIMUM FUEL CONSUMPTION AND EXHAUST GAS EMISSION |
| TECHNÖLOGICAL INNOVATION Features achieved using innovative technologies and production processes such as: advanced injection system, ladder frame cylinder block, fracture split connecting rods, rear gear-train timing system. | ENGINE EFFICIENCY AND STIFFNESSVIBRATION & NOISE REDUCTION |
| TECHNOLOGICAL SOLUTIONS FOR SERVICING To reduce maintenance operations and improve engine life and reliability, the Electronic Common Rail NEF Series adopts plateaux machined cylinder walls and oil cooled pistons by J-iets. | REDUCED MAINTENANCE, LONGER ENGINE LIFE AND RELIABILITY |
| SOLUTIONS FOR LOW OPERATING COSTS High functional engine design and solutions for long intervals in oil and filters replacement (up to 600 h). | REDUCED MAINTENANCE NEEDS AND OPERATING COST |
| MARINIZATION Functional engine lay-out, design and specific settings focused on marine duties. Optimized engine and turbo-charging cooling systems. | MARINE LAY-OUT AND SETTINGSSAFETY AND PROTECTION ON BOARD |
| COMPONENT INTEGRATION Improved technical solutions such as: integrated oil cooler, integrated oil pump and water pump, blow-by system. | LEAKAGE PREVENTION |
| OPTION LIST Wide range of accessories including keel cooling version availability, monitoring systems, international emission certifications as IMO MARPOL, 2004/26/EC, CCNR, EPA Recreational & Commercial and propulsion homologation as RINA. | CUSTOMER ORIENTATION |
| SERVICEABILITY & MAINTENABILITY Widespread worldwide service network. | QUICK AND ACCURATE SERVICE SUPPORT |

FPT INDUSTRIAL OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE



