

NEF series

SPECIFICATIONS

Thermodynamic Cycle	Diesel 4 stroke
Air Handling	TAA
Arrangement	6L
Bore x Stroke (mm)	102 X 120
Total Displacement (l)	5,9
Valves per cylinder (n°)	4
Cooling System	liquid
Direction of Rotation (viewed facing flywheel)	CCW
Engine management	by EDC (Electronic Diesel Control)
InjectionSystem	ECR

STANDARD CONFIGURATION

Flywheel housing (type)	SAE 3
Flywheel size (inch)	11 ½
Air Filter	rear side
Turbocharger	Fixed Geometry (water cooled) Turbo with Aftercooler (TAA)
Heat Exchanger	tube type
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	included
Fuel filter (n°)	1 - left side
Fuel prefilter	included (loose)
Fuel Pump	included
Lift pump	-
Oil filter (n°)	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	12V - 90A
Engine stop device	by electronic central unit
Wiring harness	with negative to ground connection
Painting color	white "ICE"



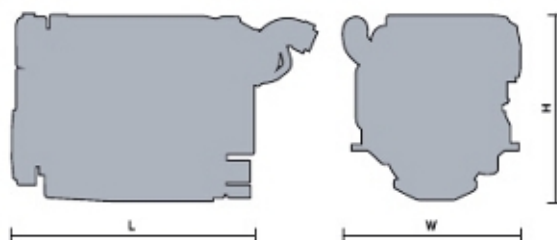
ELECTRICAL SYSTEM

Voltage	12
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NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended [*] (Ah)	120
Battery - minimum cold cranking capacity recommended [*] (A)	900

WEIGHT AND DIMENSIONS



L = 1072
W = 739
H = 778
Dry Weight (without marine gear)= Kg 595

Legend

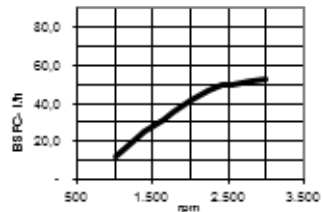
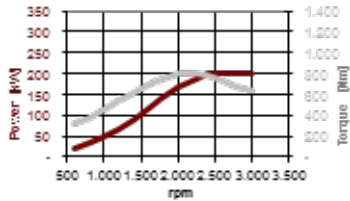
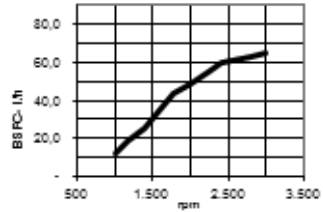
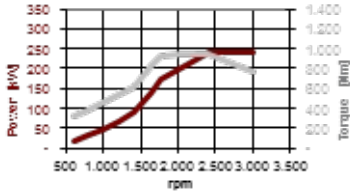
Arrangement Air Handling Turbocharger InjectionSystem

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	B	C	D
Maximum power (kW(HP))@rpm	243 (330) @ 3000	199 (270) @ 3000	-
High idle speed (rpm)	3150	3150	-
Low idle speed (rpm)	± 600	± 600	± -
Mean piston speed at rated speed (m/s)	-	-	-
BMEP at max power (kg/cm)	-	-	-
Specific fuel consumption at full load (best value) (g/kWh @ rpm)	-	-	-
Oil consumption at max rating (% of fuel cons.)	-	-	-
Minimum starting temperature without auxiliaries (°C)	-	-	-
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%.



- 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 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

FEATURES	BENEFITS
SPECIFIC FEATURES The NEF professional range features state-of-the-art diesel technologies (common rail, electronic systems, 4 valves/cylinder), thus ensuring high performance, lightness, compactness, design, low environmental impact (low smoke, noise and vibration) for light/medium duties commercial boats up to 12 metres.	HIGH TORQUE AND POWER PERFORMANCE MINIMUM FUEL CONSUMPTION AND EXHAUST GAS EMISSION
TECHNOLOGICAL INNOVATION Features achieved using innovative technologies and production processes such as: Electronic Common Rail, ladder frame cylinder block, fracture split connecting rods, rear gear-train timing system.	ENGINE EFFICIENCY AND STIFFNESS VIBRATIONS & 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-jets.	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 AND OPERATING COSTS
MARINIZATION Functional engine lay-out, design and specific settings focused on marine duties. Optimized engine and turbocharging cooling systems.	MARINE LAY-OUT & SETTINGS SAFETY 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 availability including electronic remote control, monitoring systems, international emission standards as IMO MARPOL, 2003/44/EC, 2004/26/EC, EPA Recreational & Commercial and propulsion homologation as RINA. Specific for pleasure duty, stern drive and POD drive availability completes and optimizes the NEF Series application for a wide range of boat types and propulsion solution.	CUSTOMER ORIENTATION
SERVICEABILITY & MAINTENABILITY Easier engine servicing thanks to advanced diagnostic equipment & 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

