

IFPU-NL109IH FIRE PUMP UNIT



Operating Speed (RPM)					
1470	1760	2200	2600	2800	2940
70(95)	82(111)	100(136)	108(147)	108(147)	109(148)
Ratings are : kW(HP)					



Basic Specifications	
Engine Series	Iveco N45 MNS F40
Engine Type	Diesel 4 stroke, 4 cylinder
Displacement (lt)	4,5
Aspiration	Turbocharger
Battery - mininum capacity	180 Ah (12 V)
Rotation (viewed facing flywheel)	CCW

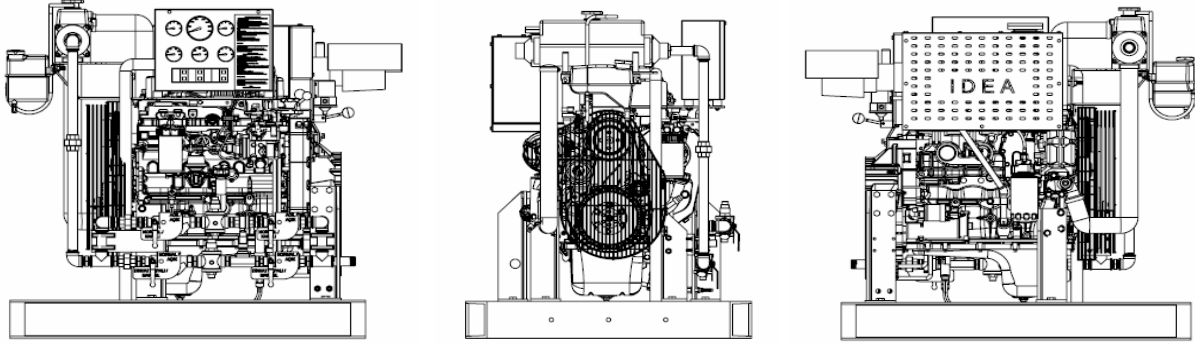
STANDARD SCOPE OF SUPPLY

Air Cleaner ; Direct-mounted , Washable , high resistant for humidity , indoor service with upper protection cover.	Instrument Panel ; Tachometer with hour counter , coolant temperature , Oil Pressure , 2 x DC Voltmeters and Relays
Alternator ; 12V-DC , 90 Amps	Lube Oil Drain Pump
Cooling Loop ; Raw Water Cooling , 1" with two pressure gauge in the water line and by-pass	Lube Oil Filter ; Full flow with By-pass valve
Coupling ; Bare flywheel	Lube Oil Pump ; Gear driven
Exhaust Protection ; Metal Guards on Monifolds and Turbocharger	Manual Start ; On instrument panel
Flywheel Power Take-Off ; 11" ½ , suitable for coupling	Overspeed Control ; Electronic with Reset and Test on Instrument Panel
Flywheel Housing ; SAE #3 , fitted with pick-up	Raw Water Solenoid Operation ; Automatic from Instrument Panel
Fuel Pipes ; Fire Resistant supply and return lines fixed on the engine mounting brackets	Run-Stop Control ; On instrument panel with control position warning light.
Fuel Injection ; Direct Injection , Rotary Pump	Stop Solenoid ; 12V – DC
Fuel Filter ; Primary Filter with Priming Pump	Silencer ; Industrial (loose)
Engine Heater ; 220 V-AC , 900 Watt , IP65 with removeable cover	Speed Governor ; Constant Speed
Heat Exchanger ; Shell & Tube , 4 bars , w/expansion tank	Starter ; 12 V – DC with 2 x Start Contactors with battery cables and terminal posts
	Throttle Control ; Adjustable Speed Control
	Water Pump ; Belt driven with guard

OPTIONAL

Air Cleaner ; Disposable , Drip proof , Outdoor Type	Maintenance Kit
Flexible Coupling	Residential or Critical Silencer (loose)
Exhaust Flex Connection ; SS Flex.150# Flange, 6" or 8"	Subbase extention for controller and pump
	Controller conformed to EN12845 standards

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Engine Ratings Baseline & Selection

Engines are rated at standard ISO3046/1 conditions of 100 kPa atmospheric pressure , 25 °C inlet air temperature and 30 % relative humidity.

The ratings given are gross power ratings at flywheel according to ISO3046 , DIN6271 , BS5514 and SAE J 1349.

A deduction of 3 % from the ratings shall be made for the engines for each 305 mt altitude above 91,4 mt.and a deduction of 1 % from the ratings shall be made for the engines for every 5,6°C above 25°C ambient temperature.

Note : Engines are not to be used for continuous duty.Engines are to be used only for stationary emergency standby fire pump service.

In order to select the engine , the maximum power absorbed by the pump at the top of the appropriate impeller curve is determined and added 10 % margin. The appropriate selection then be made after deduction of fan absorbtion.



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