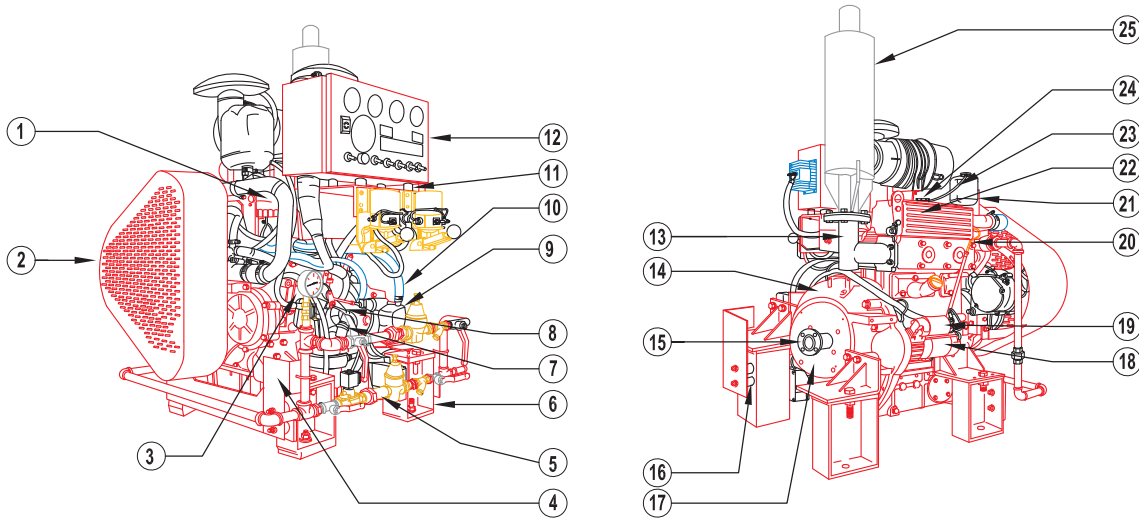


30 HP DIESEL ENGINE



Heat Exchanger Cooled, Naturally Aspirated
2.15 Liter, 4 Cylinder Engine



MATERIAL FEATURES & DETAILS

- | | |
|---|------------------------------|
| 1. fuel filter | 16. vibration pad |
| 2. safety guard front engine | 17. flywheel housing |
| 3. fuel feed pump | 18. starter motor |
| 4. mounting bracket cooling loop | 19. battery starter solenoid |
| 5. cooling loop piping | 20. dipstick gauge |
| 6. mounting bracket engine | 21. coolant expansion tank |
| 7. heater inlet connection | 23. heat exchanger assembly |
| 8. oil pressure sensor | 24. pressure cap coolant |
| 9. heater assembly | 25. muffler |
| 10. heater outlet connection | |
| 11. isolator pad | |
| 12. instrument panel board/terminal box | |
| 13. exhaust outlet connection | |
| 14. magnetic pick up (rpm sensor) | |
| 15. flange fire pump drive | |

MODEL FC 4040-UL

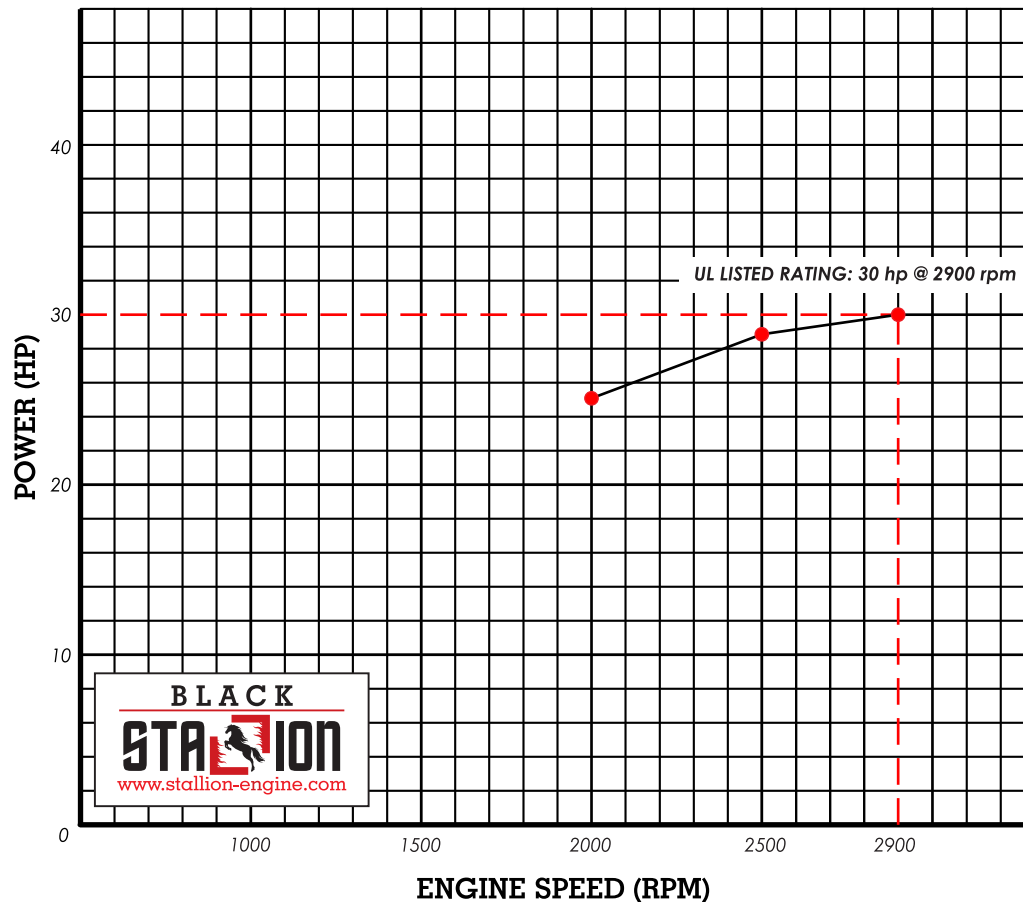
| ITEM | DESCRIPTION |
|------------------------------|---|
| Air Filter | Disposable, Dry Type |
| Alternator | 14V, 35 Amps |
| Coupling | Stub Shaft |
| Fuel Connections | Flexible, Supply and Return Lines |
| Fuel Filter | Spin-On Type w/ Water Separator |
| Fuel Injection System | In-line type, Gear Driven |
| Engine Heater | 230V-AC, 1000 Watts |
| Governor Speed | Constant Speed, Mechanical |
| Heat Exchanger | Water to Water, Shell to Tube type |
| Instrumentation Panel | Tachometer, Hourmeter, Water Temperature, Oil Pressure and Two (2) Voltmeters |
| Lube Oil Filter | Spin-On Type |
| Manual Start Control | On Instrument Panel |
| Overspeed Control | Electronic with Reset and Test on Instrument Panel |
| Raw Water Solenoid Operation | Automatic from Fire Pump Controller and from Engine Instrument Panel |
| Stop Solenoid | 12V-DC Energized to Stop |
| Starters | ONE (1) 12VDC |
| Throttle Control | Adjustable Speed Control, Tamper Proof |



MODEL FC 4040-UL

Heat Exchanger Cooled, Naturally Aspirated
2.15 Liter, 4 Cylinder Engine
30 HP Diesel Engine

PERFORMANCE CURVE



NOTE:
FOR USE IN FIRE PUMP APPLICATIONS ONLY.

ENGINE SPECIFICATION

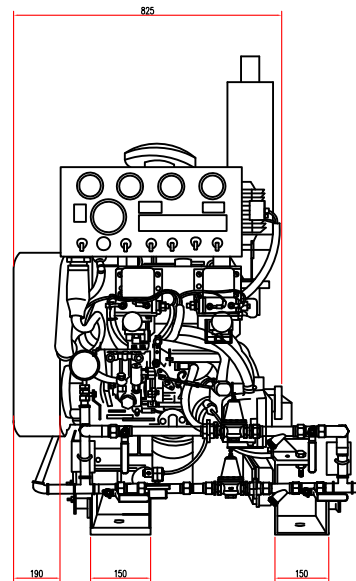
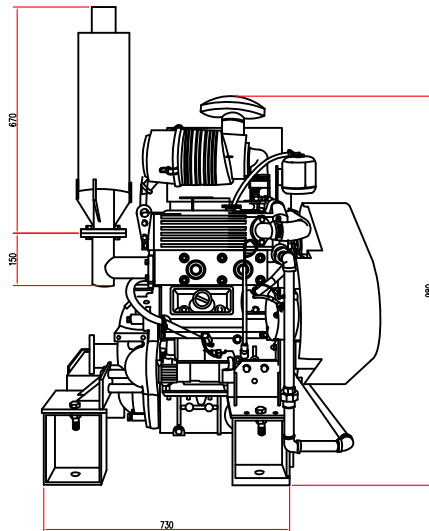
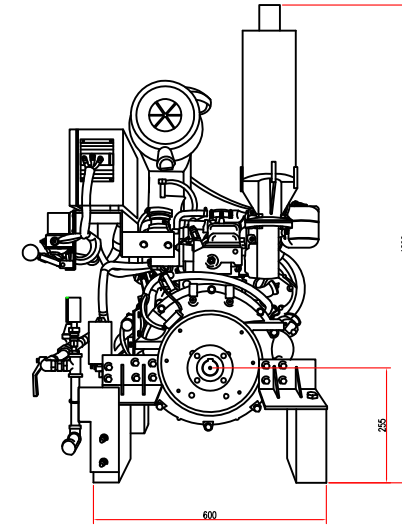
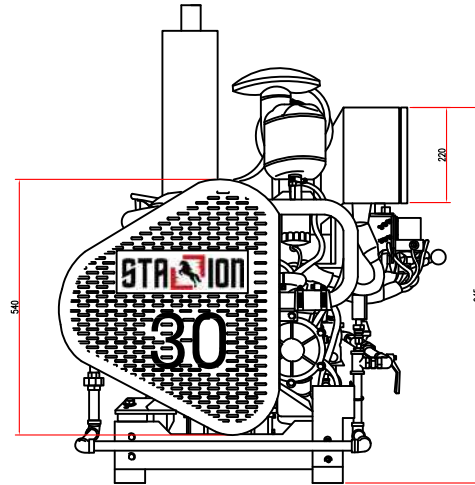
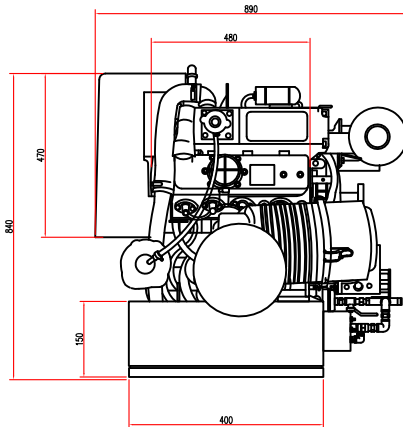
| ITEM | DESCRIPTION |
|--------------------------|--------------------------------------|
| Speed | 2900 RPM |
| Rated Power | 30 HP |
| Number of Cylinders | 4 |
| Aspiration | Naturally Aspirated |
| Rotation* | Clockwise |
| Weight – kg (lb) | 320 kg. (705.45 lb) |
| Compression Ratio | 17 : 1 |
| Displacement | 2156 cc |
| Engine Type | 4 Stroke Cycle - Inline Construction |
| Bore & Stroke | 85 mm X 95 mm |
| Fuel Consumption | 7.4689 Kg./Hr |
| Voltage | 12 VOLTS |
| Exhaust Temperature | 550°C |
| Back Pressure | Not more than 15 Kpa |
| Raw Water Inlet Size | ½ inch |
| Max. Raw Water Pressure | 60 psi |
| Min. Raw Water Flow | 7.5 gpm |
| Water Jacket Heater Size | 1000 W, 240 VAC |

* ROTATION VIEWED FROM HEAT EXCHANGER/FRONT OF ENGINE

- Each engine is factory tested to verify power and performance.
- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.
- Engines are rated at standard SAE conditions of 29.61 in. (752.1 mm) Hg barometer and 77°F (25°C) inlet air temperature (approximates 300 ft (91.4 m) above sea level) by the testing laboratory (see SAE Standard J 1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m)
- A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F (5.6°C) above 77°F (25°C) ambient temperature.

MODEL FC 4040-UL

Heat Exchanger Cooled, Naturally Aspirated
2.15 Liter, 4 Cylinder Engine
30 HP Diesel Engine



| | | | |
|---------------------|------------------------|---------------------|--------------|
| NOMENCLATURE | FC | 4040 | -UL |
| | STALLION BASE MODEL | NO. OF CYLINDERS | RAW HP |
| | | | UL LISTED |
| | | | |

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*NOTE:
DRAWINGS SUBJECT TO CHANGE WITHOUT NOTICE*



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