



NAFFCO
PASSION TO PROTECT

AUSTRALIA PUMPS



FIRE PUMP SETS-SINGLE DIESEL SETS

NAFFCO SINGLE DIESEL ENGINE PUMP SETS

Capabilities & Benefits:

- Built and Tested in Compliance with AS 2941
- Fully designed, assembled, and tested to meet the requirements of Australian Standard AS 2941 for fire protection systems.
- Purpose-Built for Firefighting Applications. Specifically engineered to deliver dependable performance in critical fire emergency situations.
- Reliable and Robust Performance High-efficiency design ensures long life, durability, and reliable operation under extreme conditions.
- Fully Factory-Assembled and Tested. Each unit is delivered pre-assembled, aligned, and tested, ready for plug-and-play installation.

Includes:

- Diesel Engine – NAFFCO Fire Driver
- Pump Type – Horizontal Split-Case or End Suction (as per project requirement)
- Diesel Controller – NAFFCO make
- Jacking Pump and Controller – Mounted on the same skid
- Suction & Discharge Manifolds, Valves, Interconnecting Plug & Play Wire Looms
- Fuel Tank & Batteries

Optional Configurations Available

- Weatherproof Cabinet Enclosures
- Galvanized or Stainless Steel Base Frames

Fast Delivery & Scalable Supply

Stock availability and modular production ensure quick turnaround and flexible quantities for projects of any size.





FIRE PUMP SETS-DUAL DIESEL SETS

NAFFCO DUAL DIESEL ENGINE PUMP SETS

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Includes:

- Diesel Engine – NAFFCO Fire Driver
- Pump Type – Horizontal Split-Case or End Suction (as per project requirement)
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- Jacking Pump and Controller – Mounted on the same skid
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FIRE PUMP SET- SINGLE ELECTRIC SETS

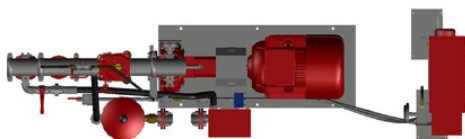
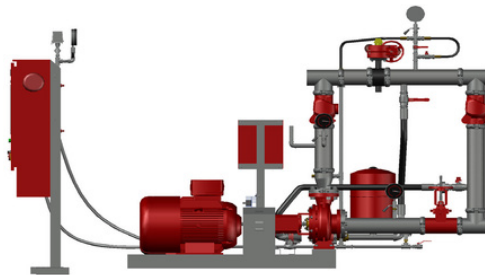
NAFFCO SINGLE ELECTRIC FIRE PUMP SET

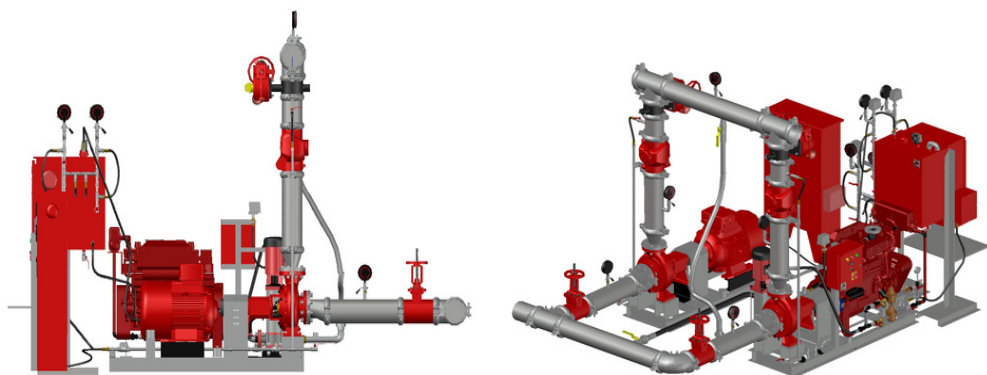
Features & Benefits:

- AS 2941 Compliant Designed, built, and fully tested in accordance with Australian Standard AS 2941 for fire protection systems.
- Electric Motor-Coupled Fire Pump. High-performance fire pump directly coupled with an electric motor for reliable and efficient operation.
- Factory Wired & Tested with Controller Delivered pre-wired and tested with NAFFCO's fire pump controller to ensure quick commissioning and compliance.
- Compact and Easy to Install Space-saving design, ideal for limited-space installations.
- Simplified setup with plug-and-play configuration.

Complete System Package Includes:

- suction and discharge manifolds, valves, and all essential accessories.
- Factory-assembled and aligned
- Purpose Built for Fire Protection
- Engineered specifically for building fire protection systems in line with Australian compliance and safety requirements.



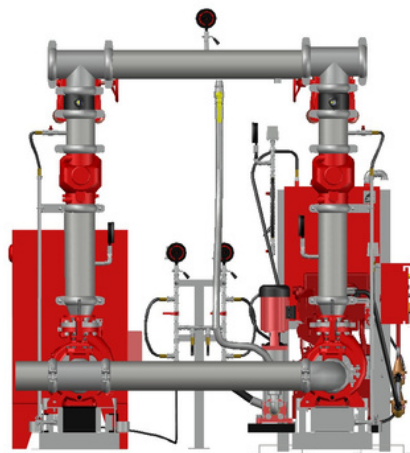
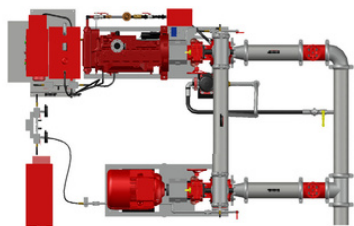


FIRE PUMP SET- DIESEL/ ELECTRIC SETS

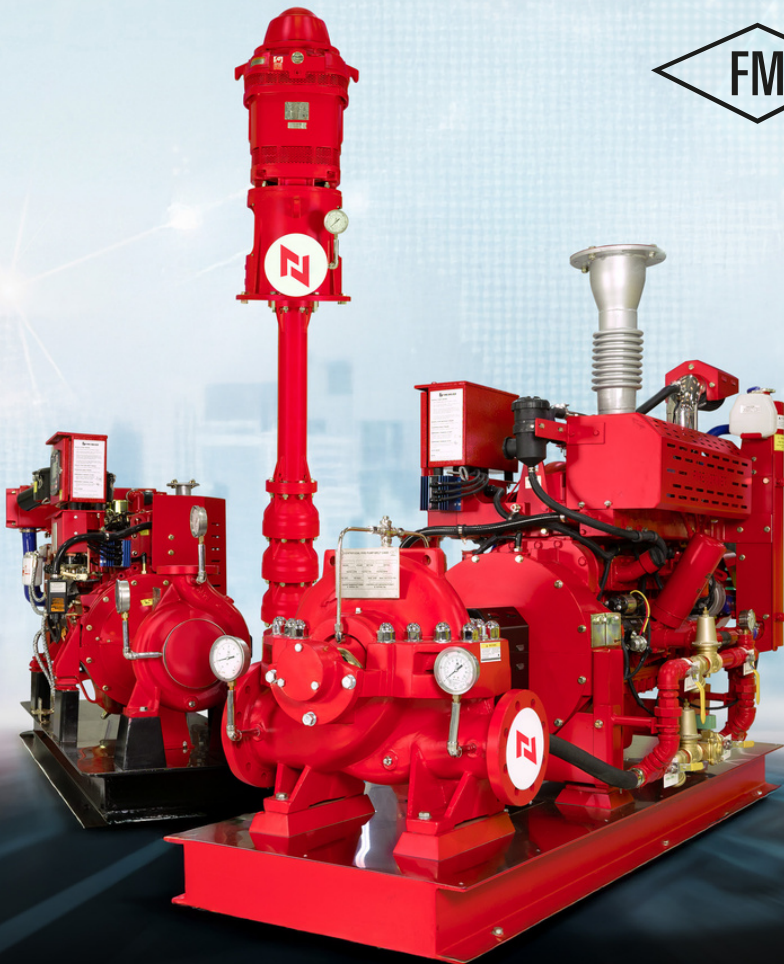
- AS 2941 Compliant Designed, built, and fully tested in accordance with Australian Standard AS 2941 for fire protection systems.
- Electric Motor-Coupled Fire Pump & Diesel engine coupled with Fire pump High-performance fire pump directly coupled with an electric motor & Diesel engine for reliable and efficient operation.
- Factory Wired & Tested with Controller Delivered pre-wired and tested with NAFFCO's fire pump controller to ensure quick commissioning and compliance.
- Compact and Easy to Install Space-saving design, ideal for limited-space installations. Simplified setup with plug-and-play configuration.
- Complete System Package Includes suction and discharge manifolds, valves, and all essential accessories. Factory-assembled and aligned
- Purpose-Built for Fire Protection Engineered specifically for building fire protection systems in line with Australian compliance and safety requirements.
- Diesel Engine – NAFFCO Fire Driver
- Electric motor-National Naffco
- Pump Type – Horizontal Split-Case or End Suction (as per project requirement)
- Diesel Controller – NAFFCO make
- Jacking Pump and Controller – Mounted on the same skid
- Suction & Discharge Manifolds, Valves, Interconnecting Plug & Play Wire Looms
- Fuel Tank & Batteries

Optional Configurations Available:

- Weatherproof Cabinet Enclosures
- Galvanized or Stainless Steel Base Frames
- Fast Delivery & Scalable Supply
- Stock availability and modular production ensure quick turnaround and flexible quantities for projects of any size.



FIRE PUMPS



FIRE PUMP SET- ENCLOSURES-SINGLE

Our single fire pump enclosures are engineered to meet the strict requirements of Australian standards ensuring safety, durability, and reliable operation in all fire protection applications. Designed with precision, these enclosures safeguard fire pumps against environmental exposure while enabling ease of access for operation and maintenance.



Key Features:

- Standards Compliance – Fully compliant with Australian standard.
- Robust Construction – Heavy-duty, powder-coated steel or aluminum enclosure designed for outdoor installation.
- Optimized Ventilation – Engineered intake and exhaust louvers maintain proper cooling airflow for diesel engines.
- Secure Access – Lockable hinged doors and removable panels provide safe and convenient access for inspection and servicing.
- Spill & Drain Management – Bunded base or drainage system to contain fuel, oil, or water leakage.
- Lighting & Power – Internal LED lighting and power outlets for improved visibility and operator convenience.
- Integrated Piping Package – Supplied with complete suction and discharge manifold, factory-assembled and tested for performance.
- Sealed exhaust system complete with rain cap
- Completely Weatherproof – Designed to withstand harsh outdoor conditions, ensuring year-round reliability.
- Fully Wired Enclosure – Pre-wired control and power connections for seamless site installation.
- Heavy-Duty Base Frame – Rigid skid-mounted base frame ensures stability and long-term durability.
- Maintenance Efficiency – Large service doors and organized layout enable faster inspections, minimizing downtime.

FIRE PUMP SET- ENCLOSURES-DUAL

Our Dual fire pump enclosures are engineered to meet the strict requirements of Australian standards ensuring safety, durability, and reliable operation in all fire protection applications. Designed with precision, these enclosures safeguard fire pumps against environmental exposure while enabling ease of access for operation and maintenance.



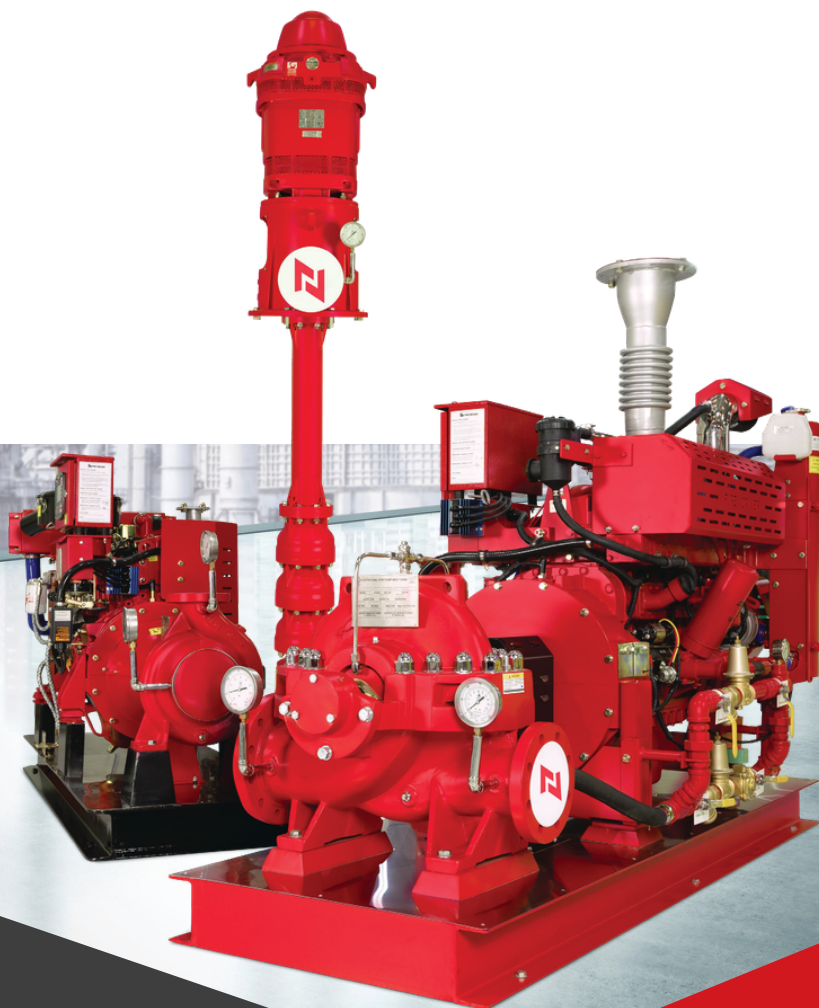
Key Features:

- Standards Compliance – Fully compliant with Australian standard.
- Robust Construction – Heavy-duty, powder-coated steel or aluminum enclosure designed for outdoor installation.
- Optimized Ventilation – Engineered intake and exhaust louvres maintain proper cooling airflow for diesel engines.
- Secure Access – Lockable hinged doors and removable panels provide safe and convenient access for inspection and servicing.
- Spill & Drain Management – Bunded base or drainage system to contain fuel, oil, or water leakage.
- Lighting & Power – Internal LED lighting and power outlets for improved visibility and operator convenience.
- Integrated Piping Package – Supplied with complete suction and discharge manifold, factory-assembled and tested for performance.
- Sealed exhaust system complete with rain cap
- Completely Weatherproof – Designed to withstand harsh outdoor conditions, ensuring year-round reliability.
- Fully Wired Enclosure – Pre-wired control and power connections for seamless site installation.
- Heavy-Duty Base Frame – Rigid skid-mounted base frame ensures stability and long-term durability.
- Maintenance Efficiency – Large service doors and organized layout enable faster inspections, minimizing downtime.



NAFFCO
PASSION TO PROTECT

FIRE PUMP PRODUCTS



END SUCTION FIRE PUMPS

NAFFCO's UL and/or FM approved fire pumps provide you with a reliable solution for your fire firefighting pump needs by combining the stringent quality measures of UL and/or FM and NFPA standards with our proven experience in the fire protection field.

We can offer you a complete package of services starting from engineering assistance to field start-up and periodic maintenance.

Each pump set is tested at our factory, prior to dispatch, as per NFPA standards. These pumps are covered by a warranty of one year subject to standard terms and conditions.



FEATURES

- Performance characteristics as per NFPA 20
- Complete unit responsibility.
- Complete in-house fabrication capabilities.
- Hydrostatic testing facilities.
- Operation run test as per NFPA 20.
- Horizontal End Suction pumps for capacities up to 2500 USGPM
- Drivers: Electric motor drive or diesel engine drive.
- Electrical testing capabilities for motors and controllers connected to fire pumps as per NFPA standards.
- Capable to supply additional accessories wherever required.

PUMP CASING The casing is designed for back pull-out which permits the removal of complete rotor unit without removing suction and discharge pipe. The casing is of robust design with integrally cast feet, vertical top centerline discharge with axial suction incorporating cast inlet vane to give best flow to impeller eye.



IMPELLER The impeller is double shrouded type and dynamically balanced. It is hydraulically balanced and positively driven by a shaft key and axially locked between sleeve and impeller nut.

BEARINGS

Driven end / non-driven end bearings are grease lubricated deep groove ball bearing.

SERIES: NF-E, PERFORMANCE RATINGS: COMPREHENSIVE RANGE

Flow Rate (Min. - Max.)	50 - 2500 US GPM**
Pressure Ratings (Min. - Max.)	3.4 - 15.4 BAR**
Speed Ratings (Min. - Max.)	2900 - 3550 RPM**

** These values only indicate overall range available in this series. For the availability of any specific ratings and details of its certification, please contact factory

HORIZONTAL SPLIT CASE FIRE PUMPS

NAFFCO's UL and/or FM approved fire pumps provide you with a reliable solution for your fire firefighting pump needs by combining the stringent quality measures of UL and/or FM and NFPA standards with our proven experience in the fire protection field.

We can offer you a complete package of services starting from engineering assistance to field start-up and periodic maintenance.
Each pump set is tested at our factory, prior to dispatch, as per NFPA standards. These pumps are covered by a warranty of one year subject to standard terms and conditions.

FEATURES

- Performance characteristics as per NFPA 20
- Complete unit responsibility.
- Complete in-house fabrication capabilities.
- Hydrostatic testing facilities.
- Operation run test as per NFPA 20.
- Horizontal Split case pumps for capacities up to 8000 USGPM*
- Drivers: Electric motor drive or diesel engine drive.
- Electrical testing capabilities for motors and controllers connected to fire pumps as per NFPA standards.
- Capable to supply additional accessories wherever required.

PUMP CASING

The casing is axially split, which permits removal of the complete rotor without moving either piping or driver. Pumps generating high heads have double volutes to reduce radial forces, ensuring minimal shaft deflection and low bearing loads. Replaceable wear rings protect the casing at the impeller running clearances.

IMPELLER

The closed impeller has double suction design which gives practically zero axial forces. Each impeller is dynamically balanced according to ISO 1940-1 standard.



BEARINGS

Grease lubricated high quality bearings are provided on both sides.

SERIES: NF-S, PERFORMANCE RATINGS: COMPREHENSIVE RANGE

Flow Rate (Min. - Max.)	300 - 8000 US GPM**
Pressure Ratings (Min. - Max.)	5.4 - 33.3 BAR**
Speed Ratings (Min. - Max.)	1470 - 3550 RPM**

* For Selected Capacities with optional material suitable for Sea Water Application is also available, contact factory for more info.
These values only indicates overall range available in this series. For the availability of any specific ratings and details of its certification, please **
.contact factory



Fire Driver diesel engines are specifically designed and manufactured for firefighting applications according to UL 1247 standard. Fire pump engines are required to start immediately based on the system demand signals without any hindrance and these engines have been consistently proven reliable in meeting this criterion. The better torque characteristics of these engines ensure reliable operation in emergency conditions. These engines are UL listed and comply with the requirements for diesel engine drives as detailed in NFPA 20. These engines go through stringent quality checks and are run tested for their performance ratings at the factory prior to dispatch, only those engine that pass through stringent quality checks are supplied to our valuable customers

FEATURES

- Reliable performance
- Easily serviceable type construction
- Accurate instrumentation facilities
- Reduce noise level
- Dependable controlling systems
- Better fuel efficiency – Economic fuel Consumption rate
- Efficient lubrication system
- Cooling system designed for optimum heat transfer
- Air intake system constructed for efficient air cold weather
- Longer engine life
- Heavy duty construction

DIESEL ENGINE RANGES (SERIES : FD - H / FD - R / FD - HN / FD - Hi / FD - HT)

Power Ratings	18 – 1207 HP*
Speed Ratings	1470 – 3000 RPM

* These values only indicate the overall range available in this series.
For the availability of any specific ratings and details of its certification,
.please contact the factory



VERTICAL MULTISTAGE PUMPS

NF-VL / NF-VLS / NF-VL-T / NF-VLS-T is a vertical multistage in-line pump series with all wetted parts made of stainless steel. It is suitable for a variety of different applications involving various liquids from potable water to industrial effluent and cover a wide range of flow and pressure requirements.

The major features of this series pumps are efficient operation, low noise, compact structure, light weight, easy to service, good seal performance etc. Its high head low capacity performance range makes it especially suitable for using as a pressure maintenance pump (Jockey Pump) in firefighting applications and it meets NFPA 20 requirements for Jockey Pumps. Each pump set is tested in our factory, prior to dispatch, to confirm that the performance is achieved per the specified requirements.

FEATURES

- Reliable Performance
- Stringent Test
- Easy to Service
- Quality Materials
- Efficient Operation
- Longer Service Life

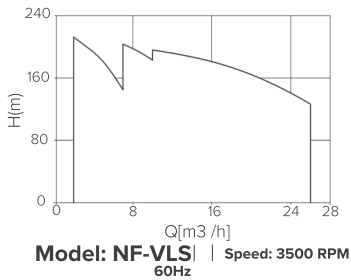
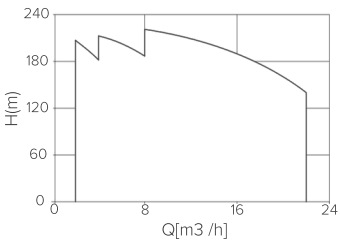
ELECTRIC MOTOR DATA

Enclosure	V18 ("C" Type Face at Drive End) < 4 kW V1 ("D" Type Flange at Drive End) > 5.5 kW Shaft Down, No Feet
Standard	IEC 60034
Voltage	380-415 V 460 V
Phase	3
Frequency	50 / 60 Hz
Insulation Class	F
Enclosure IP Rating	IP55
Efficiency Class	Eff. 2
Noise Level	85 dB(A) @ 1 m.
Ambient Temperature	Standard: 40°C High: 50°C with 0.95 & 55°C with 0.92 derating factors
Altitude	Standard: 1000 m High: 2250 m with 0.95 & 3500 m with 0.88 derating factors
Motor Coupling	Rigid Coupled to Pump

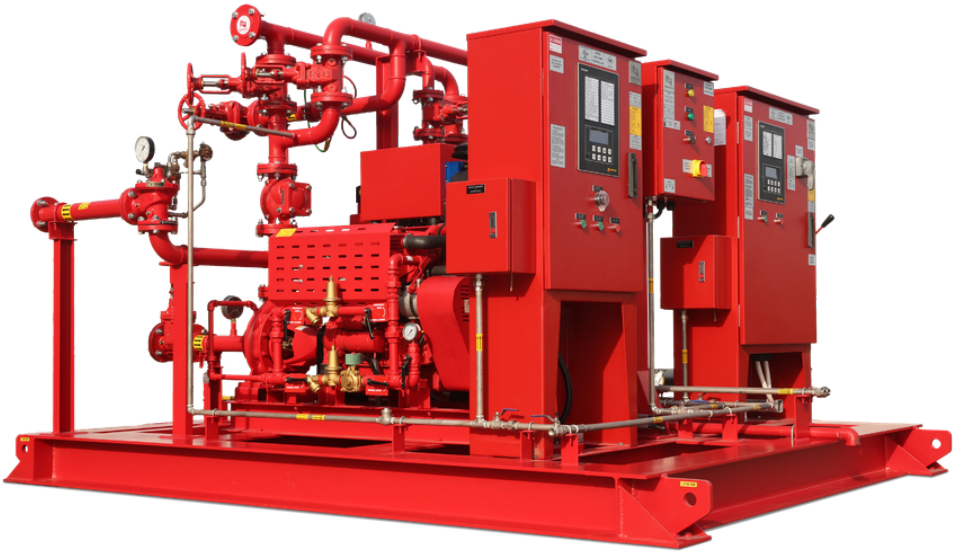
PUMP DATA

Pump Design Test Standard	ISO 9906
Nozzle Connections Nozzle	Flanged
Connection	EN 1092-2
Design Standard	
ANSI/HI 2.1-2.2 Designation	Vertical in-line casing diffuser pump (VS8)
Pump Bearing Lubrication	Pumped Liquid
Shaft Shape (for securing impeller on to the shaft)	Double-D
Mechanical Seal	Cartridge Type

* For higher ratings please contact factory.



INDUSTRIAL PACKAGED FIRE PUMP SETS



PACKAGE:

NAFFCO packaged fire pump system consists of pumps, drivers, controllers and accessories mounted on a common base frame. High quality UL / FM certified components are used in these systems. This engineering packaged pump units meets various requirements for such pumps sets as detailed in Packaged Fire Pump Assemblies section of NFPA 20. All necessary wiring between controllers and drivers are done at factory prior to shipment. The automatic air release valve, casing relief valve, suction gauge & discharge gauge are mounted on fire pumps and other accessories are mounted on pre-constructed interconnecting piping as required by NFPA 20.

Pressure sensing lines are pre-installed on Electric, Diesel, and Jockey Controllers as per NFPA 20 requirements. These systems are subjected to rigorous performance tests at factory as per UL, FM & NFPA standards to ensure proper performance of the system as per the design requirements. For completing the installation of these pre-engineered 'ready to install' packages the installing contractor only needs to grout the structural base, connect the suction & discharge pipes and incoming power.

ADVANTAGES

- Easy to install fire pump set at site.
- Easy to commission.
- Reduced installation time.
- Pre-wired electrical connections.
- Less space requirement.
- All (pumps, drivers & controllers) on single base.

SECURITY

- Single manufacturing source.
- Single unit responsibility
- 100% system operational integrity.
- 100% secure system.
- Convenience in procuring spare parts .
- All major components are listed products.
- Complying with NFPA 20

TESTING FACILITY

- Individual components test facility.
- Pump performance test.
- Pump hydrostatic test.
- Complete package test with automatic operation.
- String test.
- Driver load test.
- Simulating field test.

FIRE PUMP HOUSE UNITS

*THE PACKAGED SYSTEM:

NAFFCO Fire Pump House Units are designed as per customers' specification and NFPA 20 requirements. Complete fire pump set assembly is fixed inside an intermodal container or prefabricated pump house with all fire pump related standard accessories, valves and fittings and pump testing instruments. In addition to these fire pump set components the container/pump house also includes lighting and necessary fire protection equipment for the pump house such as a standalone heat detector and fire extinguishers. All internal wiring and piping is done at factory and external connectors are provided external to the side of the container that enables easy piping connections and gland plate is welded on the bottom edge at one side of the container/pump house for power supply cable entry at field. All the major fire pump components such as Fire Pumps, Drivers, Controllers, Valves, Pressure Gauges and Flow Meter are UL and / or FM Certified as required by the NFPA 20 standard. Only high quality components and fittings are used in order to ensure reliable performance and long life. Only suction and discharge piping, diesel engine exhaust line, test line return, drain pipe and power input connections need to be made at field. The complete package is thoroughly tested and inspected prior to dispatch.

** Actual components may vary subject to individual project requirements and commercial offer. We reserve the right to change the specifications without any prior notice.*

PRE-FABRICATED PUMP HOUSE WITH ALL SYSTEMS RELATED TO FIRE PUMP OPERATION PRE-INSTALLED IN IT.



** Only those NFPA 20 requirements will be complied that are possible within the space limitations of pump house design.*

* THE STANDARD COMPONENTS INCLUDED IN THESE HOUSED FIRE PUMP SYSTEMS ARE AS FOLLOWS:

- | | | |
|---|--|--|
| <ul style="list-style-type: none">• Electric Pump• Electric Motor• Diesel Engine• Diesel Pump• Jockey Pump• Gate Valve – Suction• Gate Valve – Discharge• Gate Valve – Test Header• Non Return Valves (Fire Pumps)• Flow Meter• Internal Exhaust Pipe Line• External cable entry provision• Electric Fire Pump Controller• Diesel Fire Pump Controller | <ul style="list-style-type: none">• Jockey Pump Controller• Pressure Sensing Line• Drain Pipe Lines• Pump Shaft Drain• Floor Drain• Battery• Pressure Gauge on Discharge• Header• Fuel Tank with Drip Tray• Fuel Tank Air Vent Pipe Line• Non Return Valve (Jockey)• Gate Valve – Discharge• Suction Pressure Gauge• Discharge Pressure Gauge | <ul style="list-style-type: none">• Discharge Header• Emergency Light• Interior Weather Proof Lights• CO₂ – 5 Kg• DCP – 6 Kg• ADCP – 6 Kg• Sprinkler System with ZCV.• Casing Relief Valve.• Ventilation Fans with Louvers• Sand trap Louvers• Suction Pipe Line• Discharge Pipe Line• Complete Internal Conduit Wiring |
|---|--|--|

ADVANTAGES

- | | | |
|--|---|---|
| <ul style="list-style-type: none">• Comparably less project site space requirement• Easy field installation• Shortened installation time• Reduced on-site labor cost• Trouble free commissioning• Optimum inside free space allocation• Single unit responsibility• Single manufacturing source | <ul style="list-style-type: none">• Pre-connected internal piping• Complete equipment on single base• Perfect system operational integrity• In-built auxiliary systems as per NFPA standard• Convenience in obtaining parts and services• Certified major components• Assured compliance with NFPA 20 | <ul style="list-style-type: none">• Eliminates on-site assembly of components• Long lasting pump house enclosure• Superior quality painting of pump house• High strength lifting lugs• Extensive range of component selections• Wide variety of configurations |
|--|---|---|

FUEL TANKS

NAFFCO certified primary containment tank offers you a reliable solution for your fuel storage requirements. Design and fabrication of these tanks are done as per UL standard (UL 142), and installation and use shall be in accordance with NFPA 30. Each tank is subjected to thorough structural inspections and leakage test as specified by the design standard.

The tanks that successfully pass the inspection and test are labeled as per UL specifications confirming their UL certification. These cylindrical, horizontally mounted, tanks are provided with necessary fittings and openings to facilitate quality service at field. All tanks are provided with openings for filling, connecting to diesel engine fuel system, fuel return line connection and drain. Lifting lug, provided on the top center of the tank, facilitates easy transportation and installation. These tanks are also provided with opening for connecting to a direct reading fuel level gauge that is supplied as part of standard fire pump package.

FEATURES

- Meets NFPA 30 requirements.
- Sized as specified by NFPA 20 for fire pump applications.
- Designed and Fabricated in accordance with UL 142 (Steel Aboveground Tanks for Flammable and Combustible Liquids) standard.
- Tested for tightness against leakage.
- Top quality fittings and fabrication materials.
- Sturdy lifting lug and legs.
- Vent opening to prevent build-up of pressure or vacuum inside the tank during filling, emptying or due to atmospheric temperature changes.
- Approved welding process.



** Construction of the tanks above 750 US Gallons will be different from the above picture.*

Applicable welding processes are Gas Metal Arc Welding (GMAW) and/or Shielded Metal Arc Welding (SMAW). Shell, Dish Head and Lift Lug material is carbon steel, ASTM A36 and legs shall be of carbon steel pipe, with a minimum height of 500 mm. The actual height of the tank leg will vary depending up on the size of the tank.

FUEL TANK CAPACITY

Type	Cylindrical, Horizontal
Fuel Tank Size	50 - 750 US Gallons
	1000 - 2000 US Gallons **

** Above ground tanks for capacities up to 9000 US Gallons and above are also available. Please contact factory.*

*With Pad Plate & ladder ***

FITTINGS

Item	Description	Material	Quantity
1	½" Nipple	Carbon Steel	2
2	½" NPT Ball Valve	Brass	1
3	½" NPT Plug	Carbon Steel	1
4	4" Nipple	Carbon Steel	1
5	2" Nipple	Carbon Steel	2



DIESEL ENGINE

HEAT EXCHANGER COOLED DIESEL ENGINES

FDA SERIES Fire pump has to start immediately based on demand requirements; NAFFCO brand diesel engines have a reputation for consistent starts and lowest operation and maintenance costs.

Fire drive diesel engines are specifically designed and manufactured for fire fighting applications according to AS 2941 standard.

The better torque characteristics of these engines ensure reliable operation in emergency conditions. These engines comply with the requirements for diesel engine drives as detailed in AS 2941 standard.

These engines go through stringent quality checks and are run tested for their performance ratings at the factory prior to dispatch, only those engine that pass through our stringent quality checks will be supplied to our valuable customers.

FEATURES

- 22 Hp - 420 Hp
- Easy maintenance Highly reliable and advanced diesel engines
- Durable and long lasting Rugged Construction built for heavy-duty purpose.
- Reduced noise emission levels to avoid additional acoustic enclosures
- Cooling system designed as per AS 2941 standard for optimal heat transfer there by maintain the diesel engine in optimum conditions.
- Conforms to AS 2941 standards
- Best economic fuel consumption rate. A very effective and efficient air intake system

A large range of Engines are available from 35 HP to 405 HP that can match fire pump requirement

12 & 24 v

Heat Exchanger

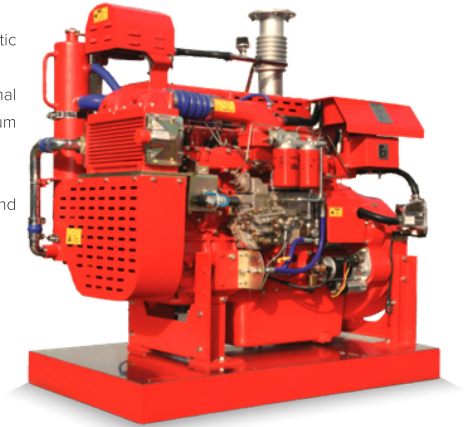
Industrial and Residential Muffler available

Emergency Starting Mechanism

Dual Battery Electrical Starting System

Cooling System Designed as per NFPA 20

Instrumentation Panel



“Heavy-Duty, Rugged Construction & Reliable Operation”

OUR PROJECTS



OUR PROJECTS



Storage King Granville 1 Woodville Rd, Granville NSW 2142



OAKDALE LOT 4A and 4B JOB ADDRESS. 2 Cuprum close Kemps Creek



Serving Over 100 Countries Worldwide

NAFFCO AUSTRALIA

In line with Naffco Australia policy for continuous product development, Naffco Australia has the right to change specifications without prior notice.

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visit our website for further details www.naffco.com