FIRE PUMP SYSTEMS

www.sffecoglobal.com
SFFECO with its more than 30 years of experience has always been a progressive organization that has remained in the forefront of the fire fighting industry with innovative, re-engineered and unique products.

SFFECO in its state-of-the-art manufacturing plants in RIYADH & DUBAI works in close connections with renowned governmental and certification bodies to provide key answers to the challenges faced by the society.

SFFECO brings together over 3-Decades of expertise and experience in form of Design, Consultancy, Testing, Commissioning, Maintenance & Refurbishment of fire protection and fire fighting systems.
MANUFACTURING
Each pump undergoes required inspection, tests and production control during the assembly process and records are logged for the same, before being delivered to our customers.

TESTING FACILITY
SFFECO has established a fully equipped state of the art, UL/FM and NFPA 20 compliant Pump Testing facility with advance testing and calibration devices that enable us to accurately inspect and test the operation of each Centrifugal Stationary Fire Pump to the required level of compliance standard.

PERFORMANCE TESTS
Each pump produced, undergoes performance tests as follows

a) OPERATION TEST
Performance curves are plotted showing the Efficiency, Brake-Horsepower (kW), and Total Head developed at shutoff, at rated capacity, at 150 percent of rated capacity, and at selected intermediate capacities between shutoff and maximum capacities exceeding 150% of rated capacity.

b) HYDROSTATIC TEST
Each pump is tested hydrostatically for not less than 5 minutes. The test pressure is to be upto 2 times the maximum working pressure of the pump, but in no case less than 250 psi (1724 kPa) to ensure no rupture or leakage through the castings at the test pressure.

c) IMPELLER BALANCING
The impellers of each pump are dynamically balanced to the G6.3 balance quality grade in accordance with the requirements for pump impellers in the Standard for Mechanical Vibration – Balance Quality
CENTRIFUGAL FIRE PUMPS

END SUCTION

50/60 HZ

Top Centerline Discharge
Foot Supported Casing
Back Pullout Design
Self-Venting Design
Efficiently Designed Shaft
Frame-Mounted Design
Small Footprint Ideal for Retrofit
Dynamically Balanced Impeller
Heavy Duty With Heavy Wall Thickness
100% Hydrostatic & Performance Tested
Back Pump Out Vanes

CAPACITY: 50 GPM TO 750 GPM
PRESSURES: 68 TO 216 PSI
MAX WORKING PRESSURE: 225 TO 250 PSI
SPEED: 2900, 3000, AND 3500 RPM

UL LISTED & FM APPROVED PUMPS
Compliant to NFPA 20 Design & Installation Requirements.


<table>
<thead>
<tr>
<th>Model Disp.</th>
<th>Rated Capacity (GPM)</th>
<th>Size</th>
<th>UL Listed</th>
<th>FM Approved</th>
<th>Max Working Pressure (PSI)</th>
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<tr>
<td>SFP 50-20 EM</td>
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Notes:
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can with stand Double the Max. Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
3. All Pumps are Horizontal single stage Pumps.
4. The rated speed marked on the pump can vary within +/-4% of the listed/approved rated speed example: 3000 RPM pump can be driven with 2900 RPM Drivers.
### CENTRIFUGAL FIRE PUMPS

**SPLIT CASE 50/60 HZ**

**Volute Type Thru-Bore Casing**  
**Frame-Mounted Design**  
**Small Footprint Ideal for Retrofit**  
**Dynamically Balanced Double Suction Impeller**  
**Heavy Duty With Heavy Wall Thickness**  
**100% Hydrostatic & performance Tested**

**CAPACITY**: 150 GPM TO 2000 GPM  
**PRESSURES**: 88 TO 335 PSI  
**MAX WORKING PRESSURE**: 220 TO 405 PSI  
**SPEED**: 2900, 3000, 3500 AND 3600 RPM

Available in ELECTRIC MOTOR and DIESEL ENGINE Driven Configuration  
Suitable for Commercial, Industrial and Buildings applications.

**UL LISTED & FM APPROVED PUMPS**  
Compliance to NFPA 20 Design & Installation Requirements.

**Wide Range of Flows and Pressures**

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<table>
<thead>
<tr>
<th>Model Dsg</th>
<th>Flow (GPM)</th>
<th>Approx Speed (RPM)</th>
<th>Head Bar - (PSI) UL Listing</th>
<th>Head Bar - (PSI) FM Approved</th>
<th>Size (in.)</th>
<th>Max Working Pressure (PSI)</th>
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</tbody>
</table>

**Notes:**  
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can with stand Double the Max. Working Pressure.  
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.  
3. All Pumps are horizontal single stage Pumps.  
4. The rated speed marked on the pump can vary within +/-4% of the listed/ approved rated speed example : 3000 RPM pump can be driven with 2980 RPM Drivers.*
Designed and built as per UL 448 AND NFPA20
- Dynamically Balanced Impeller
- Constructed in variety of metallurgies
- Available in 50 Hz and 60 Hz Drivers with gear boxes at electrical and diesel speed
- Designed for easy maintenance
- Open line shaft
- Packaged systems available
- Self-Venting Design eliminates vapor lock
- Efficiently Designed Shaft
- Heavy wall thickness
- Sealing arrangement is packing design
- Modular Construction
- Space-saver design

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Rated Capacity (GPM)</th>
<th>Rated Net Pressure Range (PSI)</th>
<th>Approx Speed (RPM)</th>
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<tr>
<td>SFP-750-70-VT</td>
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<td>SFP-750-70-VT</td>
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<td>SFP-750-70-VT</td>
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<td>1500</td>
<td>58 – 355</td>
<td>1760</td>
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</table>

**Notes:**
1. All Pumps are Hydrostatically Tested to minimum of 150% of its Maximum Working Pressure and can withstand Double the Max.Working Pressure.
2. All Pumps have Clock-Wise Rotation when viewed from the Driver Side.
3. All Pumps are horizontal single stage Pumps.
4. "The rated speed marked on the pump can vary within +/-4% of the listed/approved rated speed example: 3000 RPM pump can be driven with 2900 RPM Drivers."
All Fire Pump Controllers are factory assembled, wired, tested as a unit and comply to all requirements of the latest edition of NFPA-20 (Centrifugal Fire Pumps) and NFPA-70 (National Electrical Code). Controllers are listed by Underwriters Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, CSA, and Standard for Industrial Control Equipment (CUL) and approved by Factory Mutual (FM). All controllers are Y2K compliant.

This component plays a vital role in fire pumps as it controls the entire system. It is selected as per customer choice if any, otherwise it can be either TORNATECH, FIRETROL, HUBBLE LEXINGTON OR JOSLYN CLARKE.

DIESEL TANKS
All Sffeco Steel Above ground Tanks for flammable and combustible Liquid are assembled and tested to all requirements as follows

* ANSI/UL-142 – Compliant.
* Installation standard compliance to NFPA 30, NFPA 30A and NFPA 31

PRIMARY CONTAINMENT TANKS
1. Horizontal Cylindrical Construction (Capacity Upto 75000 Gallon)
2. Vertical Cylindrical Construction (Capacity Upto 60000 Gallon)
3. Rectangular Construction (Capacity Upto 550 Gallon)

SECONDARY CONTAINMENT TANKS
1. Horizontal Cylindrical Construction (Capacity Upto 75000 Gallon)
2. Vertical Cylindrical Construction (Capacity Upto 60000 Gallon)

NOTE: UL LISTED TANKS ARE AVAILABLE UP ON CLIENT REQUEST.

FIRE PUMP CONTROLLERS
- ELECTRIC PUMP CONTROL
- DIESEL PUMP CONTROL
- JOCKEY PUMP CONTROL
- ALARM PANEL

All Fire Pump Controllers are factory assembled, wired, tested as a unit and comply to all requirements of the latest edition of NFPA-20 (Centrifugal Fire Pumps) and NFPA-70 (National Electrical Code). Controllers are listed by Underwriters Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, CSA, and Standard for Industrial Control Equipment (CUL) and approved by Factory Mutual (FM). All controllers are Y2K compliant.

This component plays a vital role in fire pumps as it controls the entire system. It is selected as per customer choice if any, otherwise it can be either TORNATECH, FIRETROL, HUBBLE LEXINGTON OR JOSLYN CLARKE.

JOCKEY PUMP
Jockey pumps are small, motor driven pumps used in conjunction with main fire pumps to compensate for minor leaks in the fire protection system and automatically maintain stand-by pressure. This reduces wear on the main pump and controller caused by unnecessary, frequent operation. Jockey Pump controllers are available for across the-line starting.
SFFECO is an established well reputed manufacturer of Premium Custom Engine Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in accordance to NFPA 20 requirements with Listed & Approved Drivers.

SFFECO offers listed Centrifugal Fire Pump Skids that meet every fire protection need.

- Driven by Listed & Approved Diesel Engines.
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated C-Channel Structure constructed to provide proper alignment of Pump with Diesel Engine or Pump.
- Compact skid Design with Small Foot-Print for Retrofit.
- High standard of Quality in material Construction finish and Workmanship.

SFFECO maintains its standard with using it’s proudly own listed & approved Black Stallion Diesel Engines and Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Listed Diesel Engine of any specific brand as per customers requirement.
SFFECO is an established well reputed manufacturer of Premium Custom Motor Driven Centrifugal Fire Pump Skids. We specialized in designing and developing packages in accordance to NFPA 20 requirements with Listed & Approved Drivers.

SFFECO offers listed Centrifugal Fire Pump Skids that meet every fire protection need.

- Driven by Listed & Approved Fire Pump Electric Motors.
- Well aligned and Coupled for Direct Operation.
- Skid Packages are Pre-Tested and Inspected thoroughly before release to customers.
- One piece base plate with Anchor Bolt holes.
- Engineered, coated, hot rolled mild steel to resist corrosion and abrasion.
- Heavy Fabricated Steel base plate rigidly constructed to provide proper alignment of pump & motor.
- Compact skid Design with Small Foot-Print for Retrofit.
- High standard of Quality in material Construction finish and Workmanship.

SFFECO maintains its standard with using it’s proudly own listed & approved WEG High Efficiency Fire Pump Motors and Centrifugal Fire Pumps to package Heavy Duty and High Quality Compact Skids.

Our Listed and Approved Fire Pumps can also be coupled with any other Listed Diesel Engine of any specific brand as per customers requirement.
FIRE PUMP ORDER FORM
TECHNICAL DATA

GENERAL INFORMATION
CLIENT NAME:__________________________________________________________

PROJECT:________________________________________LOCATION:_____________________

PURCHASE ORDER NO.:________________________WORK ORDER NO.:____________________

CENTRIFUGAL PUMP DETAILS
☐ END SUCTION PUMP  ☐ HORIZONTAL SPLIT CASE PUMP  ☑ VERTICAL TURBINE PUMP

FLOW: please specify GPM  PRESSURE: please specify BAR (psi)  SPEED: please specify RPM

PUMP MODEL NO.: please specify  DUTY POINT CURVE NO.: SDC please specify

MOTOR DRIVER DETAILS

MOTOR POWER please specify HP  MOTOR DRIVEN SKID NO.: please specify

VOLTAGE: please specify V  please specify Ph  please specify Hz  please specify RPM

STARTER CONNECTION:
☐ DIRECT ON-LINE (DOL)  ☐ START DELTA (Y-Δ)  ☐ OTHERS: please specify

MOTOR PROTECTION:
☐ OPD (IP 23)  ☐ TEFC (IP 55)  BRAND: please specify

ELECTRIC MOTOR CONTROLLER:
BRAND: please specify  CONTROLLER MODEL NO.: please specify

PROTECTION: ☑ NEMA 2  ☐ OTHERS: please specify

TYPE: ☑ GPA  ☑ GPY  ☑ GPL  ☑ OTHERS: please specify

OTHER SPECIFIC REQUIREMENTS:

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________
ENGINE DRIVER DETAILS

ENGINE POWER: please specify HP please specify RPM
STARTER VOLTAGE: ☑ 12 VDC ☑ 24 VDC
BRAND: please specify ENGINE MODEL NO.: please specify
DIESEL DRIVEN SKID NO.: please specify
DIESEL ENGINE CONTROLLER:
BRAND: please specify CONTROLLER MODEL NO.: please specify
TYPE: ☑ GPD PROTECTION: ☑ NEMA 2 ☑ OTHERS: please specify
OTHER SPECIFIC REQUIREMENTS:

JOCKEY PUMP DETAILS

BRAND: please specify JOCKEY MODEL NO.: please specify
POWER: please specify HP VOLTAGE: please specify V please specify Ph please specify Hz
FLOW: please specify GPM PRESSURE: please specify BAR (psi) SPEED: please specify RPM
JOCKEY PUMP CONTROLLER:
BRAND: please specify CONTROLLER MODEL NO.: please specify
TYPE: ☑ JP3 PROTECTION: ☑ NEMA 2 ☑ OTHERS: please specify
OTHER SPECIFIC REQUIREMENTS:

ACCESSORIES

STANDARD ACCESSORIES:
Included in all SFFECO UL Listed Fire Pump Systems
- Discharge and Suction Gauges
- Air Release Valve (Split Case Pump Only)
- Casing Relief Valve
- Battery
- Battery Cable and Clamps
- Flexible Fuel Hoses
- Diesel Tank and Accessories
  - Ball Valve
  - Fuel Level Gauge
  - SFFECO Tank Breather

OPTIONAL ACCESSORIES:
- Flow Meter
- Main Relief Valve
- Waste Cone
- Check Valve
- Discharge TEE
- Flexible Connector
- Eccentric Reducer
- Concentric Reducer
- Hose Valves with Cap and Chain
- Ball Drip Valve
- Isolating Valve
  - OS&Y Gate Valve
  - Butterfly Valve

If flow and pressure is not known; please send the brief description of application (hazard).
Pump location, connection system (hydrant, sprinkler.. Etc), as well as the maximum height to generate and recommend the suitable pump for the application.
P.O.Box 261318
Jebel Ali Freezone
Dubai, U.A.E

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