



# ***Corporate Capabilities Fire Protection***

**Ameriflo Corporation**

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Rossville, TN 38066

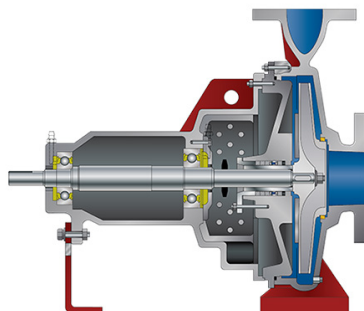
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## 5010 FP-ES End Suction



### Standards

- NFPA 20, UL, FM

### 2 Operating Parameters

- Flow: 50 to 1,500 GPM [11 to 455 m<sup>3</sup>/hr]
- Pressure: 40 to 220 PSI [2.75 to 15.2 bar]
- Speeds: 3550, 2950 RPM

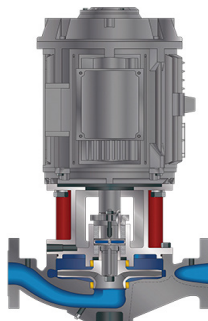
### Size Range

- 1.25x2.5-9 → 3x4-11

### Features

- Francis, enclosed, high efficiency impeller with broad band operating range
- Ductile iron casing/investment cast 304 stainless steel impeller
- Casing has cast integral feet under the volute with self-venting, centerline discharge
- 250 pound RF suction flange and 250 pound RF discharge flange
- Impeller has back pump out vanes to keep packing chamber free of debris
- Suction & discharge gauges standard with 304 stainless steel buffer tubing and ball valves
- Cast integral vortex suppressor located at suction inlet designed to minimize pre-rotation of fluid prior to entering the impeller eye
- Drilled and tapped casing pressure relief valve
- Packing standard
- Replaceable case wear ring standard
- Turned, ground and polished 420 stainless steel shaft & 304 stainless steel sleeve standard
- Grease lubricated power frame with minimum 5,000 hour minimum bearing life
- 7300 series angular contact bearing at the inboard and outboard locations
- Dual oil lip seal construction
- Large oversized data plate mounting bracket
- Can be driven by electric motor or diesel engine

## 5020 FP-VI Vertical Inline



### Standards

- NFPA 20, UL, FM

### Operating Parameters

- Flow: 50 to 1,500 GPM [11 to 455 m<sup>3</sup>/hr]
- Pressure: 40 to 198 PSI [2.75 to 13.7 bar]
- Speeds: 3550, 2950, 1760 RPM

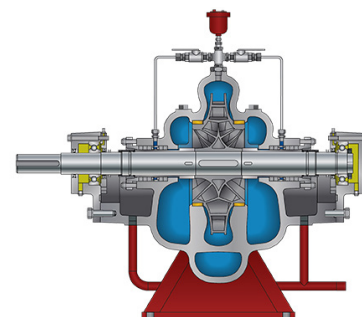
### Size Range

- 2x2-6 → 6x8-16

### Features

- Francis, enclosed, high efficiency impeller with broad band operating range
- Ductile iron casing/investment cast 304 stainless steel impeller
- Casing has cast integral feet under the volute with self-venting, centerline discharge
- 125 pound suction flange and 125 pound discharge flange
- Impeller has back pump out vanes to keep packing chamber free of debris
- Suction & discharge gauges standard with 304 stainless steel buffer tubing and ball valves
- Cast integral vortex suppressor located at suction inlet designed to minimize pre-rotation of fluid prior to entering the impeller eye
- Drilled and tapped casing pressure relief valve
- Packing standard
- Replaceable case wear ring standard
- Turned, ground and polished 304 stainless steel shaft sleeve
- JP-Frame motor for easy mounting
- Large oversized data plate mounting bracket

## 5030 FP-SC Single Stage Split Case



### Standards

- NFPA 20, UL, FM

### Operating Parameters

- Flow: 300 to 8,000 GPM [68 to 1,817 m<sup>3</sup>/hr]
- Pressure: 40 to 367 PSI [2.75 to 25.3 bar]
- Speeds: 3550, 2950, 2600, 2350, 2100, 2000, 1760, 1480 RPM

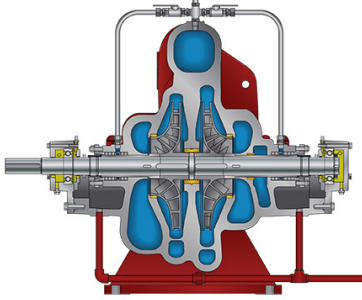
### Size Range

- 3x4-8 → 14x16-26

### Features

- Ductile iron, ribbed casing with 400 PSI pressure ratings
- Double volute casing designed to reduce radial loads
- 250 pound RF suction flange and 250 pound RF discharge flange
- High efficiency impeller design that leads the industry on lower horsepower
- Investment cast, 304 stainless steel impeller
- Turned, ground and polished 420 stainless steel shaft
- 304 stainless steel shaft sleeves, 304 stainless steel glands and 304 stainless steel lantern rings
- 304 stainless steel flush lines with 304 stainless steel ball valves
- 6300 series deep groove bearing at the inboard and outboard locations
- Modular rotating assembly groups minimizes number of parts needed
- Inboard & outboard bearing housings are removable and replaceable without removing the casing top
- Casing top has pry bar locations and jack screws to aid in pump disassembly
- Both stuffing box basins are plumbed to a common single drain point
- Full optional metallurgy support for sea water applications (all bronze, all 2205 & 2507 super duplex stainless steel)
- Large oversized data plate mounting bracket
- Can be driven by electric motor or diesel engine

## 5030 FP-SC(2) Two-Stage Split Case



### Standards

- NFPA 20, UL, FM

### Operating Parameters

- Flow: 500 to 1,500 GPM [114 to 341 m<sup>3</sup>/hr]
- Pressure: 282 to 616 PSI [19.4 to 42.5 bar]
- Speeds: 3550, 2950, 1760 RPM

### Size Range

- 4x5-13(2) → 6x8-20(2)

### Features

- Ductile iron, ribbed casing with 600 PSI pressure ratings
- Double volute casing designed to reduce radial loads with proprietary Aegis buffer chamber that reduces pressure on second stage stuffing box
- 250 pound RF suction flange and 250 pound RF discharge flange
- High efficiency impeller design that leads the industry on lower horsepower
- Investment cast, 304 stainless steel impellers
- Turned, ground and polished 420 stainless steel shaft & 304 stainless steel sleeve standard
- 304 stainless steel shaft sleeves, 304 stainless steel glands and 304 stainless steel lantern rings
- 304 stainless steel flush lines with 304 stainless steel ball valves
- 6300 series deep groove bearing at the inboard and outboard locations
- Modular rotating assembly groups minimizes number of parts needed
- Inboard & outboard bearing housings are removable and replaceable without removing the casing top
- Casing top has pry bar locations and jack screws to aid in pump disassembly
- Both stuffing box basins are plumbed to a common single drain point
- Full optional metallurgy support for sea water applications (all bronze, all 2205 & 2507 super duplex stainless steel)
- Large oversized data plate mounting bracket
- Can be driven by electric motor or diesel engine

## 5040 FP-VT Vertical Turbine



### Standards

- NFPA 20, UL, FM

### Operating Parameters

- Flow: 100 to 7,000 GPM [23 to 1,589 m<sup>3</sup>/hr]
- Pressure: 40 to 377 PSI [2.75 to 26.0 bar]
- Speeds: 2950, 1760, 1480 RPM

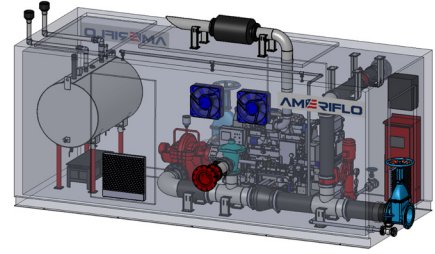
### Size Range

- 6" → 22" Bowl Diameter
- 4" → 16" Discharge Heads

### Features

- 304 stainless steel basket strainer
- Ductile iron bowls with double wear ring construction
- Flanged bowl construction with jackscrew threads for easy assembly and disassembly
- Hydraulically balanced, investment cast, 304 stainless steel impellers
- 420 stainless steel shafting
- 304 stainless steel shaft sleeves between each stage and under each bowl bearing
- Heavy duty bronze bowl bearings between each stage
- Flanged column assemblies (4", 6", 8", 10", 12", 14", & 16") with 420 stainless steel line shaft
- Fabricated steel discharge heads (4", 6", 8", 10", 12", 14", & 16") with heavy duty double bearing stuffing box assembly
- Stuffing box features 304 stainless steel shaft sleeves, 304 stainless steel gland & 304 stainless steel lantern ring
- Full optional metallurgy support for sea water applications (all bronze, all 2205 & 2507 super duplex stainless steel)
- Large oversized data plate mounting bracket
- Can be driven by electric motor or diesel engine

## 50X5 GEN-PAC Booster Systems



### Standards

- NFPA 20, UL, FM

### Operating Parameters

- Flow: 100 to 8,000 GPM [23 to 1,817 m<sup>3</sup>/hr]
- Pressure: 40 to 616 PSI [2.75 to 42.5 bar]
- Speeds: 3550, 2950, 2600, 2350, 2100, 2000, 1760, 1480 RPM

### Size Range

- Any FP-ES, FP-VI, FP-SC or FP-VT
- 1 Electric
- 1 Diesel
- 1 Electric + 1 Diesel
- 2 Electric
- 2 Diesel

### GEN-PAC Options

- Skid Package
- 20 Foot Container
- 40 Foot Container

### Features

- Diverse hydraulic envelope to select from with four (4) different product types (End Suction, Vertical Inline, Split Case & Vertical Turbine)
- Options to select simplex or duplex orientations
- Electric and/or Diesel engine driven pumps
- Incorporated jockey pump systems
- Mounted and wired fire pump and jockey pump controllers for easy system startup
- Complete suction and discharge manifold options allow for easy jobsite installation
- Optional piping allows for flowmeter, city bypass, main relief valve with waste cone and test header connections
- All GEN-PAC system sensing lines are constructed out of 304 stainless steel material
- Full optional metallurgy support for sea water applications (all bronze, all 2205 & 2507 super duplex stainless steel)





# The Future of Fire Protection

## How It All Began EFFICIENCY BY DESIGN

With years of manufacturing experience, Ameriflo has spent considerable time developing what the customer has asked for. The most diverse hydraulic offering in the Fire Protection industry with an emphasis on pump efficiency and systems integration. With GENESYS (GEN-PAC) Booster Systems available in End Suction (ES), Vertical Inline (VI), Split Case (SC) and Vertical Turbine (VT) Ameriflo has the solution you need.

With third party certified flows through 8,000 US GPM and heads to 616 PSI, rest assured that Ameriflo has a solution for your integrated system needs.

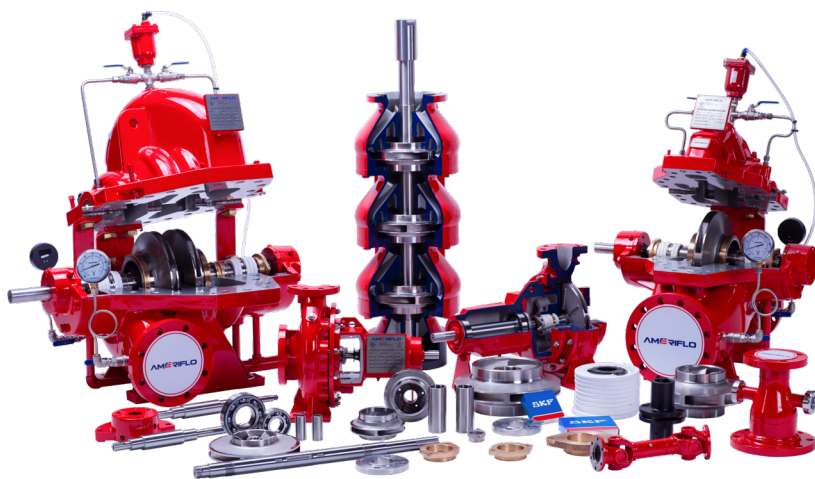
Ameriflo is a global manufacturer of integrated systems with facilities located in several countries and has clients in over 80 countries. The corporate manufacturing headquarters is located in Tennessee, along with a very large testing and training facility for distributor and representative training.

Ameriflo uses computational fluid dynamics (CFD) and 3D Solids Works for designing all GEN-PAC skid systems with detail for all valves, suction & discharge piping and any installed optional accessories specified by the end user. Electric and Diesel engine driven systems are available and can be ordered in a variety of flows and pressures with full optional metallurgy support.

### GEN-PAC Systems Can Be Supplied In A Variety Of Orientations

GEN-PAC skid systems can be supplied in several different constructions. All systems include

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suction and discharge manifolds, mounted controllers, pressure sensing lines for the controllers, optional main relief valve and waste cone loops, flow meter loops and city by-pass loops. GEN-PAC systems can be supplied:

**1E** – 1 electric driven pump in end suction, vertical inline, split case or vertical turbine

**1D** – 1 diesel driven pump in end suction, split case or vertical turbine

**1E+1D** – 1 electric driven pump and 1 Diesel engine driven pump in end suction, split case or vertical turbine

**2E** – 2 electric driven pump in end suction, vertical inline, split case or vertical turbine

**2D** – 2 electric driven pump in end suction, split case or vertical turbine

All GEN-PAC skid assemblies can also be containerized allowing for a very easy plug-and-play installation making things very easy at the job-site. All GEN-PAC skids are modular making them easy to disassemble and ship in a modular format allowing shipment by common trucking carrier. The GEN-PAC container is easy loaded onto standard trucking trailers requiring no oversized loads that require special permitting.

## Communication Is The Key To Our Success

Ameriflo has systems in place making communication with our clients of the utmost priority. Each client has their own customer portal that will allow them to check on all quotations, sales orders and any client case that is generated. These tools put the power in the hands of the client and allow them access to the most current information. This access empowers our clients to respond to their customers in a more timely fashion and secure that next opportunity!

We also have a state-of-the-art software selection package with full configurator, **Ameriflo IQ**, that can be used by simply signing up. E-mail us for additional information.

If you would like more information about what Ameriflo is all about, please contact us.

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