



شركة المصنع السعودي لأجهزة الإطفاء
SAUDI FACTORY FOR FIRE EQUIPMENT Co.

Empowering
a Safer Future for
the Kingdom



Vertical Turbine Fire Pumps

- ❖ for Foam Systems
- ❖ for Deluge Systems
- ❖ for Hydrant Systems
- ❖ for Sprinkler Systems
- ❖ for Hose Reel / Rack Systems

Quality Approvals for Various Products and Services

VER: 00-12/25

The Global Standard in Fire Safety

Since 1983, SFFECO has been the trusted name and a recognized global leader in manufacturing top-tier fire-fighting equipment. We don't just offer products; we provide total fire safety solutions like fire doors, fire cabinets, fire pumps, fire extinguishing systems, etc. Our commitment to excellence is certified by multiple international standards, including ISO 9001 (Quality), ISO 14001 (Environmental), and ISO 45001 (Health & Safety). With state-of-the-art facilities in Riyadh and Dubai, we ensure every product meets rigorous international quality standards.

One-Stop-Shop for Fire Protection

SFFECO is your single source for everything in fire protection and fire-fighting. Represented in over 100 countries through a vast network of dealers, our innovative approach and comprehensive, end-to-end product range deliver the full spectrum of solutions you need. We're dedicated to keeping you safe and updated, constantly integrating the latest fire-fighting technology into our knowledge and services. Choose SFFECO and get certified quality, global reach, and pioneering innovation—all in one place.



Quality Services

SFFECO is deeply committed to ensuring superior performance and accuracy in every product it delivers. This dedication is maintained through continuous, close collaboration with a wide array of stakeholders, including key certification bodies, government regulatory agencies, industry partners, and leading technology associations. This concerted effort focuses on the development and delivery of truly innovative and high-quality fire-fighting solutions. The commitment to excellence is rigorously upheld through extensive product testing and evaluation, alongside a strict, ongoing process for continued product quality compliance, guaranteeing that SFFECO's equipment operates with assured reliability when it matters most.

SFFECO is dedicated to providing fire safety products of the highest quality and performance. We achieve this by working closely with certification bodies, government regulatory agencies, industry partners, and technology associations. This collaboration ensures our innovative products are backed by extensive product testing and evaluation, and maintained through continuous quality compliance.

As global leaders since 1983, SFFECO believes in manufacturing quality products and offering exceptional service standards worldwide. Our primary goal is to reward our customers by keeping their investments safe and secure. Our manufacturing plant has steadily grown and is now equipped with modern hi-tech equipment and staffed by highly skilled professionals. With optimal ISO-certified operations, we consistently roll out products that match global standards to serve the needs of the growing fire safety market.



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End Suction Fire Pumps

UL/FM Approved



General Description

SFFECO Vertical Turbine Fire Pumps are engineered for fire protection systems where the water source is below ground level, such as wells, underground tanks, lakes, or reservoirs. Featuring a vertical configuration and a proven hydraulic design, these pumps deliver a reliable and efficient water supply for a wide range of fire protection applications.

Operating on the centrifugal principle, the motor drives a vertical line shaft connected to multiple impellers within the bowl assembly. Water enters through the suction bell at the base of the pump and flows through successive impeller stages, where its pressure is progressively increased. The pressurized water then travels upward through the column pipe and is discharged through the discharge head into the fire protection system.

Built for durability and long-term performance, SFFECO Vertical Turbine Fire Pumps are manufactured using high-quality, corrosion-resistant materials and are designed to comply with international and national fire protection

standards. Their robust construction ensures dependable operation and a consistent water supply during emergency conditions, while supporting extended service life with proper maintenance.

The discharge head provides structural support for the motor and connects the pump to the discharge piping, directing pressurized water into the system. The column pipe links the discharge head to the bowl assembly, conveying water while enclosing the line shaft that transmits rotational power. The line shaft, typically made of high-strength stainless steel, ensures efficient power transmission with excellent durability and corrosion resistance. The bowl assembly consists of multiple impellers and diffusers that increase water pressure in stages, with impellers commonly made of bronze or stainless steel for optimal hydraulic efficiency. At the bottom, the suction bell enables smooth water entry, reducing turbulence and enhancing overall pump performance.



Fire Pumps

Vertical Turbine [50/60 Hz]



General Features

- ❖ Designed and built as per UL 448 and NFPA20
- ❖ Dynamically Balanced Impeller
- ❖ Constructed in variety of metallurgies
- ❖ Available 50Hz and 60Hz
- ❖ 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



Capacity	200GPM to 2000 GPM
Pressure	40 to 359 PSI
Max. Working Pressure	290 to 395 PSI

Model Dsg.	Rated Capacity (GPM)	UL Listed Rated Net Pressure Range (PSI)	Number of Stages	Approx Speed (RPM)
SFP - 200 - 70VT	200	40 - 289	2 - 12	1480
SFP - 200 - 70VT		48 - 348	2 - 10	1760
SFP - 200 - 30VT		60 - 305	2 - 6	2900
SFP - 200 - 30VT		63 - 323	2 - 6	2980
SFP - 200 - 30VT		64 - 327	2 - 6	3000
SFP - 750 - 70 - VT	250	40 - 248	2 - 10	1480
SFP - 250 - 70VT		40 - 290	2 - 12	1480
SFP - 250 - 70VT		48 - 345	2 - 10	1760
SFP - 250 - 30VT		60 - 299	2 - 6	2900
SFP - 250 - 30VT		63 - 317	2 - 6	2980
SFP - 250 - 30VT		64 - 321	2 - 6	3000
SFP - 750 - 70 - VT		40 - 248	2 - 10	1480
SFP - 750 - 70 - VT		48 - 351	2 - 10	1760

Model Dsg.	Rated Capacity (GPM)	UL Listed Rated Net Pressure Range (PSI)	Number of Stages	Approx Speed (RPM)
SFP - 300 - 70VT	300	40 - 290	2 - 12	1480
SFP - 300 - 70VT		47 - 341	2 - 10	1760
SFP - 300 - 30VT		58 - 295	2 - 6	2900
SFP - 300 - 30VT		61 - 312	2 - 6	2980
SFP - 300 - 30VT		62 - 316	2 - 6	3000
SFP - 750 - 70- VT		40 - 247	2 - 10	1480
SFP - 750 - 70- VT	48 - 351	2 - 10	1760	
SFP - 400 - 70VT	400	40 - 283	2 - 12	1480
SFP - 400 - 70VT		46 - 336	2 - 10	1760
SFP - 400 - 30VT		54 - 285	2 - 6	2900
SFP - 400 - 30VT		57 - 302	2 - 6	2980
SFP - 400 - 30VT		58 - 306	2 - 6	3000
SFP - 750 - 70- VT		40 - 244	2 - 10	1480
SFP - 750 - 70- VT	46 - 349	2 - 10	1760	
SFP - 450 - 70VT	450	40 - 279	2 - 12	1480
SFP - 450 - 70VT		45 - 333	2 - 10	1760
SFP - 450 - 30VT		52 - 279	2 - 6	2900
SFP - 450 - 30VT		56 - 296	2 - 6	2980
SFP - 450 - 30VT		56 - 300	2 - 6	3000
SFP - 750 - 70- VT		40 - 241	2 - 10	1480
SFP - 750 - 70- VT	44 - 347	2 - 10	1760	
SFP - 500 - 70VT	500	40 - 276	2 - 12	1480
SFP - 500 - 70VT		44 - 331	2 - 10	1760
SFP - 500 - 30VT		49 - 273	2 - 6	2900
SFP - 500 - 30VT		53 - 290	2 - 6	2980
SFP - 500 - 30VT		54 - 294	2 - 6	3000
SFP - 750 - 70- VT		40 - 236	2 - 10	1480
SFP - 750 - 70- VT	44 - 343	2 - 10	1760	
SFP - 750- 70- VT	750	40 - 320	2 - 10	1760
SFP - 1500- 80- VT		42 - 254	2 - 8	1480
SFP - 750- 70VT		40 - 253	2 - 12	1480
SFP - 750- 70VT		40 - 309	2 - 10	1760
SFP - 750- 80VT		43 - 306	2 - 10	1480
SFP - 750- 80VT		62 - 359	2- 8	1760
SFP - 750- 30VT		72 - 79	2	2900
SFP - 750- 30VT		108 - 119	3	2900
SFP - 750- 30VT		144 - 159	4	2900
SFP - 750- 30VT		180 - 198	5	2900
SFP - 750- 30VT		216 - 238	6	2900
SFP - 750- 30VT		150 - 166	4	2950
SFP - 750- 30VT		187 - 207	5	2950
SFP - 750- 30VT		225 - 249		2950
SFP - 750- 30VT	83-87	2	3000	
SFP - 750- 30VT	117 - 130	3	3000	
SFP - 750- 30VT	167 - 173	4	3000	
SFP - 1000- 70VT	1000	56	3	1480
SFP - 1000- 70VT		73	4	1480
SFP - 1000- 70VT		88	5	1480
SFP - 1000- 70VT		112	6	1480
SFP - 1000- 70VT		131	7	1480
SFP - 1000- 70VT		145	8	1480
SFP - 1000- 70VT		160	9	1480
SFP - 1000- 70VT		187	10	1480
SFP - 1000- 70VT		203	11	1480
SFP - 1000- 70VT		218	12	1480
SFP - 1000- 70VT		102	6	1450

Model Dsg.	Rated Capacity (GPM)	UL Listed Rated Net Pressure Range (PSI)	Number of Stages	Approx Speed (RPM)	
SFP - 1000-70VT	1000	117	7	1450	
SFP - 1000-70VT		174	10	1450	
SFP - 1000-70VT		189	11	1450	
SFP - 1000-70VT		57	2	1760	
SFP - 1000-70VT		80	3	1760	
SFP - 1000-70VT		106	4	1760	
SFP - 1000-70VT		133	5	1760	
SFP - 1000-70VT		160	6	1760	
SFP - 1000-70VT		189	7	1760	
SFP - 1000-70VT		218	8	1760	
SFP - 1000-70VT		247	9	1760	
SFP - 1000-70VT		276	10	1760	
SFP - 1000-70VT		58	2	1780	
SFP - 1000-70VT		87	3	1780	
SFP - 1000-70VT		116	4	1780	
SFP - 1000-70VT		145	5	1780	
SFP - 1000-70VT		175	6	1780	
SFP - 1000-70VT		204	7	1780	
SFP - 1000-70VT		233	8	1780	
SFP - 1000-70VT		262	9	1780	
SFP - 1000-70VT		291	10	1780	
SFP - 1000-80VT			40 - 287	2 - 10	1480
SFP - 1000-80VT			59-343	2 - 8	1760
SFP - 1000-90VT			57 - 328	2 - 7	1480
SFP - 1000-90VT			85 - 337	2 - 5	1760
SFP - 1500-80- VT			40 - 244	2 - 8	1480
SFP - 1500-80- VT			58 - 355	2 - 8	1760
SFP - 2000-90- VT			58 - 239	2 - 5	1480
SFP - 1250-80VT		1250	40 - 273	2 - 10	1480
SFP - 1250-80VT			54 - 330	2 - 8	1760
SFP - 1250-90VT			55 - 317	2 - 7	1480
SFP - 1250-90VT			80 - 329	2 - 5	1760
SFP - 1500-80- VT			40 - 225	2 - 8	1480
SFP - 1500-80- VT	54 - 341		2 - 8	1760	
SFP - 2000-90- VT	56 - 230		2 - 5	1480	
SFP - 2000-90- VT	80 - 335		2 - 5	1760	
SFP - 1500-80VT	1500		84 - 254	4 - 10	1480
SFP - 1500-80VT			60 - 76	3	1480
SFP - 1500-80VT		49 - 312	2 - 8	1760	
SFP - 1500-90VT		52 - 309	2 - 7	1480	
SFP - 1500-90VT		78 - 314	2 - 5	1760	
SFP - 1500-80- VT		58 - 317	2 - 8	1760	
SFP - 2000-90- VT		52 - 225	2 - 5	1480	
SFP - 2000-90- VT		78 - 325	2 - 5	1760	
SFP - 2000-90- VT		72 - 312	2 - 5	1760	
SFP - 2000-90VT		2000	71 - 82	2	1480
SFP - 2000-90VT	100 - 123		3	1480	
SFP - 2000-90VT	133 - 165		4	1480	
SFP - 2000-90VT	167 - 288		5 - 7	1480	
SFP - 2000-90VT	96 - 118		3	1450	
SFP - 2000-90VT	128 - 157		4	1450	
SFP - 2000-90VT	72 - 302		2 - 5	1760	

- Notes:**
- ❖ All Pumps are hydrostatically tested to minimum of 150% of its maximum working pressure and can with stand double the max. working pressure
 - ❖ All Pumps have clock-wise rotation when viewed from the driver side
 - ❖ All pumps are horizontal single stage pumps
 - ❖ "The rated speed marked on the pump can vary within +/- 4% of the listed / approved rated speed example: 3000RPM pump can be driven with 2900 RPM drives."
 - ❖ UL listed pumps compliant to NFPA 20 design and installation requirements.



Since 1983, SFFECO has been a trusted name in fire protection, known for innovation and quality worldwide.

With state-of-the-art facilities in Riyadh and Dubai, we deliver a complete range of firefighting solutions that meet international standards.

Our innovative approach and comprehensive product portfolio make SFFECO the one-stop destination for reliable fire protection products and services.

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