



Certificate of Compliance

This certificate is issued for the following:

Centrifugal Fire Pumps (Horizontal, End Suction Type)

(see attached listing)

Prepared for:

Saudi Factory for Fire Equipment Co
2nd Industrial Area Al-Kharj Rd
PO Box 58469
Riyadh 11515, Saudi Arabia

Approval Standard: FM 1319 (December 2020)

Approval Identification: PR464706

Approval Granted: April 20, 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group





Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
FP 50-20 EM	50	190	68-88	470-605	2900	2	1 1/4	1
SFP 50-20 EH	50	190	102-129	705-890	3500	2	1 1/4	1
SFP 50-26 EM	50	190	115-133	795-915	2900	2	1 1/4	1
SFP 50-26 EH	50	190	168-195	1160-1345	3500	2	1 1/4	1
SFP 50-20 EM-2G	50	190	74-93	510-640	2900	2.5	2	1
SFP 50-20 EM-2G	50	190	79-99	545-685	3000	2.5	2	1
SFP 100-50 EH	100	380	106-130	730-895	3500	2 1/2	2	1
SFP 100-20 EM-2G	100	380	72-92	495-635	2900	2.5	2	1
SFP 100-20 EM-2G	100	380	77-98	530-675	3000	2.5	2	1
SFP 150-20 EH	150	580	104-129	715-890	3500	2 1/2	2	1
SFP 150-20 EHA	150	580	104-129	715-890	3500	2.5	2	1
SFP 150-20 EM-2G	150	580	71-90	490-620	2900	2.5	2	1
SFP 150-20 EM-2G	150	580	76-97	525-670	3000	2.5	2	1
SFP 150-65 EM-2G	150	580	80-93	550-640	2900	3	2.5	1
SFP 150-65 EM-2G	150	580	86-99	595-685	3000	3	2.5	1
SFP 150-32 EM-2G	150	580	95-142	655-980	2900	3	2	1
SFP 150-32 EM-2G	150	580	102-153	705-1055	3000	3	2	1
SFP 150-20 EHA	150	580	104-129	715-890	3500	2.5	2	1
SFP 150-20 EHA	150	580	104-129	715-890	3500	2.5	2	1
SFP 200-20 EH	200	755	98-124	675-855	3500	2 1/2	2	1
SFP 200-65 EM	200	755	115-136	795-940	2900	3	2 1/2	1
SFP 200-20 EHA	200	755	98-124	675-855	3500	2.5	2	1
SFP 200-65 EM-2G	200	755	79-91	545-625	2900	3	2.5	1
SFP 200-65 EM-2G	200	755	85-98	585-675	3000	3	2.5	1



Member of the FM Global Group



Certificate of Compliance

Product	Rated Capacity, (gal/min)	Rated Capacity, (dm ³ /min)	Rated Net Head at Rated Capacity, psi	Rated Net Head at Rated Capacity, kPa	Rated Speed, r/min	Suction Inlet, dia., in.	Discharge Outlet, dia., in.	Stage(s)
SFP 200-32 EM-2G	200	755	89-139	615-960	2900	3	2	1
SFP 200-32 EM-2G	200	755	96-149	660-1025	3000	3	2	1
SFP 200-20 EHA	200	755	98-124	675-855	3500	2.5	2	1
SFP 200-20 EHA	200	755	98-124	675-855	3500	2.5	2	1
SFP 250-20 EH	250	945	105-125	725-860	3500	3	2 1/2	1
SFP 250-26 EM	250	945	112-134	770-925	2900	3	2 1/2	1
SFP 250-65 EM-2G	250	945	77-90	530-620	2900	3	2.5	1
SFP 250-32 EM-2G	250	945	82-132	565-910	2900	3	2	1
SFP 250-65 EM-2G	250	945	83-97	570-670	3000	3	2.5	1
SFP 250-42 EM-2G	250	945	87-146	600-1005	2900	4	2.5	1
SFP 250-32 EM-2G	250	945	89-143	615-985	3000	3	2	1
SFP 250-42 EM-2G	250	945	94-156	650-1075	3000	4	2.5	1
SFP 300-20 EH	300	1135	102-123	705-850	3500	3	2 1/2	1
SFP 300-26 EM	300	1135	108-130	745-895	2900	3	2 1/2	1
SFP 300-65 EM-2G	300	1135	76-90	525-620	2900	3	2.5	1
SFP 300-65 EM-2G	300	1135	81-96	560-660	3000	3	2.5	1
SFP 300-42 EM-2G	300	1135	85-143	585-985	2900	4	2.5	1
SFP 300-42 EM-2G	300	1135	91-154	625-1060	3000	4	2.5	1
SFP 400-26 EM	400	1515	108-133	745-915	2900	4	3	1
SFP 400-80 EH	400	1515	115-195	795-1345	3500	4	3	1
SFP 400-32 EM	400	1515	162-197	1115-1360	2900	4	3	1
SFP 400-26 EH	400	1515	165-198	1140-1365	3500	4	3	1
SFP 400-42 EM-2G	400	1515	79-141	545-970	2900	4	2.5	1
SFP 400-42 EM-2G	400	1515	86-151	595-1040	3000	4	2.5	1
SFP 400-25 EM-2G	400	1515	86-139	595-960	2900	5	3	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP 400-25 EM-2G	400	1515	93-149	640-1025	3000	5	3	1
SFP 400-31 EM-2G	400	1515	134-218	925-1505	2900	5	3	1
SFP 400-54 EM-2G	400	1515	137-215	945-1480	2900	5	4	1
SFP 400-31 EM-2G	400	1515	143-234	985-1615	3000	5	3	1
SFP 400-54 EM-2G	400	1515	147-230	1015-1585	3000	5	4	1
SFP 450-26 EM	450	1705	105-132	725-910	2900	4	3	1
SFP 450-80 EH	450	1705	111-195	765-1345	3500	4	3	1
SFP 450-32 EM	450	1705	159-195	1095-1345	2900	4	3	1
SFP 450-26 EH	450	1705	162-197	1115-1360	3500	4	3	1
SFP 450-42 EM-2G	450	1705	78-137	540-945	2900	4	2.5	1
SFP 450-42 EM-2G	450	1705	84-148	580-1020	3000	4	2.5	1
SFP 450-25 EM-2G	450	1705	86-138	595-950	2900	5	3	1
SFP 450-25 EM-2G	450	1705	91-148	625-1020	3000	5	3	1
SFP 450-31 EM-2G	450	1705	131-217	905-1495	2900	5	3	1
SFP 450-54 EM-2G	450	1705	136-214	940-1475	2900	5	4	1
SFP 450-31 EM-2G	450	1705	141-232	970-1600	3000	5	3	1
SFP 450-54 EM-2G	450	1705	146-229	1005-1580	3000	5	4	1
SFP 500-26 EM	500	1895	104-131	715-905	2900	4	3	1
SFP 500-80 EH	500	1895	110-194	760-1340	3500	4	3	1
SFP 500-12 EM	500	1895	113-139	780-960	2900	5	4	1
SFP 500-13 EM	500	1895	126-216	870-1490	2900	5	4	1
SFP 500-32 EM	500	1895	156-194	1075-1340	2900	4	3	1
SFP 500-26 EH	500	1895	161-195	1110-1345	3500	4	3	1
SFP 500-20 EM-2G	500	1895	69-84	475-580	2900	6	5	1
SFP 500-20 EM-2G	500	1895	73-90	505-620	3000	6	5	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP 500-25 EM-2G	500	1895	83-136	575-935	2900	5	3	1
SFP 500-25 EM-2G	500	1895	90-146	620-1005	3000	5	3	1
SFP 500-20 EH-2G	500	1895	100-121	670-835	3500	6	5	1
SFP 500-20 EH-2G	500	1895	105-128	725-885	3600	6	5	1
SFP 500-26 EM-2G	500	1895	118-136	815-940	2900	6	5	1
SFP 500-26 EM-2G	500	1895	126-146	870-1005	3000	6	5	1
SFP 500-31 EM-2G	500	1895	129-217	890-1495	2900	5	3	1
SFP 500-54 EM-2G	500	1895	136-214	940-1475	2900	5	4	1
SFP 500-31 EM-2G	500	1895	139-232	960-1600	3000	5	3	1
SFP 500-42 EM-2G	500	1895	143	985	3000	4	2.5	1
SFP 500-54 EM-2G	500	1895	146-229	1005-1580	3000	5	4	1
SFP 500-26 EH-2G	500	1895	168-199	1160-1370	3500	6	5	1
SFP 500-26 EH-2G	500	1895	178-210	1225-1450	3600	6	5	1
SFP 750-26 EM	750	2840	108-136	745-940	2900	5	4	1
SFP 750-32 EM	750	2840	117-214	805-1475	2900	5	4	1
SFP 750-20 EM-2G	750	2840	65-81	450-560	2900	6	5	1
SFP 750-20 EM-2G	750	2840	70-87	485-600	3000	6	5	1
SFP 750-20 EH-2G	750	2840	97-120	670-825	3500	6	5	1
SFP 750-20 EH-2G	750	2840	103-127	710-875	3600	6	5	1
SFP 750-26 EM-2G	750	2840	116-135	800-930	2900	6	5	1
SFP 750-26 EM-2G	750	2840	125-145	860-1000	3000	6	5	1
SFP 750-54 EM-2G	750	2840	131-208	905-1435	2900	5	4	1
SFP 750-54 EM-2G	750	2840	141-223	970-1540	3000	5	4	1
SFP 750-26 EH-2G	750	2840	167-198	1150-1365	3500	6	5	1
SFP 750-26 EH-2G	750	2840	177-210	1220-1450	3600	6	5	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP 1000-20 EM-2G	1000	3785	60-78	415-540	2900	6	5	1
SFP 1000-20 EM-2G	1000	3785	65-84	450-580	3000	6	5	1
SFP 1000-20 EH-2G	1000	3785	92-116	635-800	3500	6	5	1
SFP 1000-20 EH-2G	1000	3785	98-123	675-850	3600	6	5	1
SFP 1000-26 EM-2G	1000	3785	113-133	780-915	2900	6	5	1
SFP 1000-26 EM-2G	1000	3785	121-143	835-985	3000	6	5	1
SFP 1000-54 EM-2G	1000	3785	122-200	840-1380	2900	5	4	1
SFP 1000-54 EM-2G	1000	3785	132-215	910-1480	3000	5	4	1
SFP 1000-26 EH-2G	1000	3785	164-196	1130-1350	3500	6	5	1
SFP 1000-26 EH-2G	1000	3785	174-208	1200-1435	3600	6	5	1



Member of the FM Global Group



Certificate of Compliance

This certificate is issued for the following:

Centrifugal Fire Pumps Split-Case Type (Axial or Radial)

(see attached listing)

Prepared for:

Saudi Factory for Fire Equipment Co
2nd Industrial Area Al-Kharj Rd
PO Box 58469
Riyadh 11515, Saudi Arabia

Approval Standard: FM 1311 (December 2020)

Approval Identification: PR464706

Approval Granted: 20 April 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'D.B. Fuller', is written over a horizontal line.

David B. Fuller

VP, Manager – Fire Protection

FM Approvals

1151 Boston-Providence Turnpike

Norwood, MA 02062



Member of the FM Global Group





Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP150-28SM	150	580	101-156	695-1075	2900	5	3	1
SFP150-28SM	150	580	108-167	745-1150	3000	5	3	1
SFP150-35SM	150	580	125-224	860-1545	2900	5	3	1
SFP150-35SM	150	580	133-240	915-1655	3000	5	3	1
SFP150-25SH	150	580	114-208	785-1435	3500	6	4	1
SFP150-25SH	150	580	121-220	835-1515	3600	6	4	1
SFP150-SN31SH	150	580	226-316	1560-2180	3500	6	4	1
SFP150-SN31SH	150	580	234-327	1615-2255	3565	6	4	1
SFP150-40SM	150	580	206-289	1420-1995	2900	6	4	1
SFP150-40SM	150	580	221-310	1525-2135	3000	6	4	1
SFP200-28SM	200	755	101-156	695-1075	2900	5	3	1
SFP200-28SM	200	755	108-167	745-1150	3000	5	3	1
SFP200-35SM	200	755	124-224	855-1545	2900	5	3	1
SFP200-35SM	200	755	133-240	915-1655	3000	5	3	1
SFP200-25SH	200	755	114-207	785-1425	3500	6	4	1
SFP200-25SH	200	755	121-219	835-1510	3600	6	4	1
SFP200-SN31SH	200	755	226-317	1560-2185	3500	6	4	1
SFP200-SN31SH	200	755	234-329	1615-2270	3565	6	4	1
SFP200-40SM	200	755	206-289	1420-1995	2900	6	4	1
SFP200-40SM	200	755	220-309	1515-2130	3000	6	4	1
SFP250-28SM	250	945	101-156	695-1075	2900	5	3	1
SFP250-28SM	250	945	108-167	745-1150	3000	5	3	1
SFP250-35SM	250	945	123-223	850-1540	2900	5	3	1
SFP250-35SM	250	945	132-239	910-1650	3000	5	3	1
SFP250-25SH	250	945	114-207	785-1425	3500	6	4	1



Member of the FM Global Group



Certificate of Compliance

Product	Rated Capacity, (gal/min)	Rated Capacity, (dm ³ /min)	Rated Net Head at Rated Capacity, psi	Rated Net Head at Rated Capacity, kPa	Rated Speed, r/min	Suction Inlet, dia., in.	Discharge Outlet, dia., in.	Stage(s)
SFP250-25SH	250	945	121-219	835-1510	3600	6	4	1
SFP250-SN31SH	250	945	226-317	1560-2185	3500	6	4	1
SFP250-SN31SH	250	945	234-329	1615-2270	3565	6	4	1
SFP250-40SM	250	945	206-288	1420-1985	2900	6	4	1
SFP250-40SM	250	945	220-308	1515-2125	3000	6	4	1
SFP300-28SM	300	1135	100-156	690-1075	2900	5	3	1
SFP300-28SM	300	1135	107-167	740-1150	3000	5	3	1
SFP300-35SM	300	1135	122-222	840-1530	2900	5	3	1
SFP300-35SM	300	1135	131-237	905-1635	3000	5	3	1
SFP300-25SH	300	1135	114-206	785-1420	3500	6	4	1
SFP300-25SH	300	1135	121-219	835-1510	3600	6	4	1
SFP300-SN31SH	300	1135	226-316	1560-2180	3500	6	4	1
SFP300-SN31SH	300	1135	234-328	1615-2260	3565	6	4	1
SFP300-40SM	300	1135	206-286	1420-1970	2900	6	4	1
SFP300-40SM	300	1135	220-307	1515-2115	3000	6	4	1
SFP400-28SM	400	1515	98-155	675-1070	2900	5	3	1
SFP400-28SM	400	1515	105-166	725-1145	3000	5	3	1
SFP400-35SM	400	1515	120-219	825-1510	2900	5	3	1
SFP400-35SM	400	1515	129-234	890-1615	3000	5	3	1
SFP400-25SH	400	1515	113-206	780-1420	3500	6	4	1
SFP400-25SH	400	1515	120-218	825-1505	3600	6	4	1
SFP400-SN31SH	400	1515	225-314	1550-2165	3500	6	4	1
SFP400-SN31SH	400	1515	233-326	1605-2250	3565	6	4	1
SFP400-40SM	400	1515	206-285	1420-1965	2900	6	4	1
SFP400-40SM	400	1515	221-305	1525-2105	3000	6	4	1
SFP450-28SM	450	1705	96-155	660-1070	2900	5	3	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP450-28SM	450	1705	104-166	715-1145	3000	5	3	1
SFP450-25SH	450	1705	113-206	780-1420	3500	6	4	1
SFP450-25SH	450	1705	120-218	825-1505	3600	6	4	1
SFP450-SN31SH	450	1705	224-313	1545-2160	3500	6	4	1
SFP450-SN31SH	450	1705	233-325	1605-2240	3565	6	4	1
SFP450-40SM	450	1705	205-284	1415-1960	2900	6	4	1
SFP450-40SM	450	1705	220-304	1515-2095	3000	6	4	1
SFP450-37SM-2G	450	1705	220-293	1515-2020	2900	6	4	1
SFP450-37SM-2G	450	1705	236-315	1625-2170	3000	6	4	1
SFP500-31SM	500	1895	130-197	895-1360	2900	6	4	1
SFP500-31SM	500	1895	139-212	960-1460	3000	6	4	1
SFP500-28SM	500	1895	94-154	650-1060	2900	5	3	1
SFP500-28SM	500	1895	102-165	705-1140	3000	5	3	1
SFP500-25SH	500	1895	113-205	780-1415	3500	6	4	1
SFP500-25SH	500	1895	120-217	825-1495	3600	6	4	1
SFP500-SN31SH	500	1895	224-312	1545-2150	3500	6	4	1
SFP500-SN31SH	500	1895	232-324	1600-2235	3565	6	4	1
SFP500-40SM	500	1895	204-284	1405-1960	2900	6	4	1
SFP500-40SM	500	1895	219-304	1510-2095	3000	6	4	1
SFP500-32SM	500	1895	119-198	820-1365	2900	6	4	1
SFP500-32SM	500	1895	128-212	885-1460	3000	6	4	1
SFP500-37SM-2G	500	1895	216-296	1490-2040	2900	6	4	1
SFP500-37SM-2G	500	1895	233-314	1605-2165	3000	6	4	1
SFP750-31SM	750	2840	127-196	875-1350	2900	6	4	1
SFP750-31SM	750	2840	136-210	940-1450	3000	6	4	1
SFP750-EL31SH	750	2840	190-290	1310-2000	3500	6	4	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP750-EL31SH	750	2840	196-299	1350-2060	3555	6	4	1
SFP750-25SH	750	2840	106-199	730-1370	3500	6	4	1
SFP750-25SH	750	2840	113-211	780-1455	3600	6	4	1
SFP750-SN31SH	750	2840	218-309	1505-2130	3500	6	4	1
SFP750-SN31SH	750	2840	227-321	1565-2215	3565	6	4	1
SFP750-40SM	750	2840	199-281	1370-1935	2900	6	4	1
SFP750-40SM	750	2840	214-301	1475-2075	3000	6	4	1
SFP750-29SM	750	2840	148-182	1020-1255	2900	8	5	1
SFP750-29SM	750	2840	159-196	1095-1350	3000	8	5	1
SFP750-12SH	750	2840	148-266	1020-1835	3500	8	5	1
SFP750-12SH	750	2840	157-281	1080-1935	3600	8	5	1
SFP750-32SM	750	2840	111-194	765-1340	2900	6	4	1
SFP750-32SM	750	2840	120-208	825-1435	3000	6	4	1
SFP750-37SM-2G	750	2840	202-276	1395-1905	2900	6	4	1
SFP750-37SM-2G	750	2840	218-298	1505-2055	3000	6	4	1
SFP1000-31SM	1000	3780	124-190	855-1310	2900	6	4	1
SFP1000-31SM	1000	3780	133-204	915-1405	3000	6	4	1
SFP1000-EL31SH	1000	3780	187-289	1290-1995	3500	6	4	1
SFP1000-EL31SH	1000	3780	193-298	1330-2055	3555	6	4	1
SFP1000-40SM	1000	3785	191-272	1315-1875	2900	6	4	1
SFP1000-40SM	1000	3785	206-292	1420-2015	3000	6	4	1
SFP1000-29SM	1000	3785	143-181	985-1250	2900	8	5	1
SFP1000-29SM	1000	3785	154-194	1060-1340	3000	8	5	1
SFP1000-12SH	1000	3785	146-264	1005-1820	3500	8	5	1
SFP1000-12SH	1000	3785	155-280	1070-1930	3600	8	5	1
SFP1000-30SM	1000	3785	98-172	675-1185	2900	8	5	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP1000-30SM	1000	3785	103-180	710-1240	2960	8	5	1
SFP1000-36SM	1000	3785	163-278	1125-1915	2900	8	5	1
SFP1000-36SM	1000	3785	165-280	1138-1930	2910	8	5	1
SFP1000-15SH	1000	3785	152-205	1050-1415	3500	8	5	1
SFP1000-15SH	1000	3785	160-217	1105-1495	3600	8	5	1
SFP1000-36SM-2G	1000	3785	180-290	1240-2000	2900	8	5	1
SFP1000-36SM-2G	1000	3785	194-310	1340-2135	3000	8	5	1
SFP1250-EL31SH	1250	4730	178-287	1225-1980	3500	6	4	1
SFP1250-EL31SH	1250	4730	184-296	1270-2040	3555	6	4	1
SFP1250-29SM	1250	4730	137-177	945-1220	2900	8	5	1
SFP1250-29SM	1250	4730	148-191	1020-1315	3000	8	5	1
SFP1250-12SH	1250	4730	207-264	1425-1820	3500	8	5	1
SFP1250-12SH	1250	4730	219-279	1510-1925	3600	8	5	1
SFP1250-30SM	1250	4730	94-170	650-1170	2900	8	5	1
SFP1250-30SM	1250	4730	98-177	675-1220	2960	8	5	1
SFP1250-36SM	1250	4730	155-278	1070-1915	2900	8	5	1
SFP1250-36SM	1250	4730	156-280	1075-1930	2910	8	5	1
SFP1250-15SH	1250	4730	150-205	1035-1415	3500	8	5	1
SFP1250-15SH	1250	4730	159-217	1095-1495	3600	8	5	1
SFP1250-36SM-2G	1250	4730	171-281	1180-1935	2900	8	5	1
SFP1250-36SM-2G	1250	4730	184-302	1270-2080	3000	8	5	1
SFP1250-29SM-2G	1250	4730	95-156	655-1075	2900	8	6	1
SFP1250-29SM-2G	1250	4730	103-167	710-1150	3000	8	6	1
SFP1500-30SM	1500	5680	88-167	605-1150	2900	8	5	1
SFP1500-30SM	1500	5680	92-174	635-1200	2960	8	5	1
SFP1500-36SM	1500	5680	153-275	1055-1895	2900	8	5	1



Member of the FM Global Group



Certificate of Compliance

Product	Rated Capacity, (gal/min)	Rated Capacity, (dm ³ /min)	Rated Net Head at Rated Capacity, psi	Rated Net Head at Rated Capacity, kPa	Rated Speed, r/min	Suction Inlet, dia., in.	Discharge Outlet, dia., in.	Stage(s)
SFP1500-36SM	1500	5680	154-277	1060-1910	2910	8	5	1
SFP1500-15SH	1500	5680	149-206	1025-1420	3500	8	5	1
SFP1500-15SH	1500	5680	158-218	1090-1505	3600	8	5	1
SFP1500-29SM-2G	1500	5680	100-155	690-1070	2900	8	6	1
SFP1500-29SM-2G	1500	5680	106-167	730-1150	3000	8	6	1
SFP1500-61SL6-2G	1500	5680	143-168	985-1160	1760	12	10	1
SFP1500-61SL6-2G	1500	5680	149-176	1025-1215	1800	12	10	1
SFP 1500-61SL5-2G	1500	5680	99-164	685-1130	1480	12	10	1
SFP 1500-61SL5-2G	1500	5680	102-168	705-1160	1500	12	10	1
SFP2000-15SH	2000	7570	145-203	1000-1400	3500	8	5	1
SFP2000-15SH	2000	7570	154-215	1060-1480	3600	8	5	1
SFP2000-29SM-2G	2000	7570	95-152	655-1050	2900	8	6	1
SFP2000-29SM-2G	2000	7570	103-163	710-1125	3000	8	6	1
SFP2000-61SL6-2G	2000	7570	136-166	940-1145	1760	12	10	1
SFP2000-61SL6-2G	2000	7570	143-173	985-1195	1800	12	10	1
SFP 2000-61SL5-2G	2000	7570	94-162	650-1115	1480	12	10	1
SFP 2000-61SL5-2G	2000	7570	97-166	670-1145	1500	12	10	1
SFP2500-29SM-2G	2500	9465	89-145	615-1000	2900	8	6	1
SFP2500-29SM-2G	2500	9465	96-156	660-1075	3000	8	6	1
SFP2500-61SL6-2G	2500	9465	133-163	915-1125	1760	12	10	1
SFP2500-61SL6-2G	2500	9465	139-170	960-1170	1800	12	10	1
SFP 2500-61SL5-2G	2500	9465	90-158	620-1090	1480	12	10	1
SFP 2500-61SL5-2G	2500	9465	93-162	640-1115	1500	12	10	1
SFP3000-61SL6-2G	3000	11,355	125-156	860-1075	1760	12	10	1
SFP3000-61SL6-2G	3000	11,355	132-164	910-1130	1800	12	10	1
SFP 3000-61SL5-2G	3000	11,355	105-153	725-1055	1480	12	10	1



Member of the FM Global Group



Certificate of Compliance

<i>Product</i>	<i>Rated Capacity, (gal/min)</i>	<i>Rated Capacity, (dm³/min)</i>	<i>Rated Net Head at Rated Capacity, psi</i>	<i>Rated Net Head at Rated Capacity, kPa</i>	<i>Rated Speed, r/min</i>	<i>Suction Inlet, dia., in.</i>	<i>Discharge Outlet, dia., in.</i>	<i>Stage(s)</i>
SFP 3000-61SL5-2G	3000	11,355	108-157	745-1080	1500	12	10	1
SFP3500-61SL6-2G	3500	13,250	120-148	825-1020	1760	12	10	1
SFP3500-61SL6-2G	3500	13,250	126-156	870-1075	1800	12	10	1
SFP 3500-61SL5-2G	3500	13,250	114-144	785-995	1480	12	10	1
SFP 3500-61SL5-2G	3500	13,250	118-148	815-1020	1500	12	10	1



Member of the FM Global Group



Certificate of Compliance

This certificate is issued for the following:

Centrifugal Fire Pumps (Vertical Shaft, Turbine Type)

Models: SFP-200-70VT, SFP-250-70VT, SFP-300-70VT, SFP-400-70VT, SFP-450-70VT, SFP-500-70VT, SFP-750-70VT, SFP-750-80VT, SFP-1000-70VT, SFP-1000-80VT, SFP-1000-90VT, SFP-1250-80VT, SFP-1250-90VT, and SFP-2000-90VT
(see attached listing)

Prepared for:

Saudi Factory for Fire Equipment Co
2nd Industrial Area Al-Kharj Rd
PO Box 58469
Riyadh 11515, Saudi Arabia

Approval Standard: FM 1312 (December 2020)

Approval Identification: PR464705

Approval Granted: 20 April 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in dark ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group





Certificate of Compliance

Product	Rated Capacity, gal/min	Rated Capacity, dm ³ /min	Rated Net Head at Rated Capacity, psi	Rated Net Head at Rated Capacity, (kPa)	Rated Speed, r/min	Manufacturer Size, in.	Manufacturer Size, mm	Stages
SFP-200-70VT	200	755	40-289	275-1995	1480	6	152	2-12
SFP-200-70VT	200	755	64-348	440-2400	1760	6	152	2-10
SFP-250-70VT	250	945	40-289	275-1995	1480	6	152	2-12
SFP-250-70VT	250	945	64-345	440-2380	1760	6	152	2-10
SFP-300-70VT	300	1135	40-289	275-1995	1480	6	152	2-12
SFP-300-70VT	300	1135	64-341	440-2350	1760	6	152	2-10
SFP-400-70VT	400	1515	40-283	275-1950	1480	6	152	2-12
SFP-400-70VT	400	1515	62-336	430-2315	1760	6	152	2-10
SFP-450-70VT	450	1705	40-279	275-1925	1480	6	152	2-12
SFP-450-70VT	450	1705	61-333	420-2295	1760	6	152	2-10
SFP-500-70VT	500	1895	40-276	275-1905	1480	6	152	2-12
SFP-500-70VT	500	1895	60-331	415-2280	1760	6	152	2-10
SFP-750-70VT	750	2840	40-253	275-1745	1480	6	152	2-12
SFP-750-80VT	750	2840	43-306	295-2110	1480	8	203	2-10
SFP-750-70VT	750	2840	53-309	365-2130	1760	6	152	2-10
SFP-750-80VT	750	2840	58-359	400-2475	1760	8	203	2-8
SFP-1000-80VT	1000	3785	40-287	275-1980	1480	8	203	2-10
SFP-1000-90VT	1000	3785	40-328	275-2260	1480	10	253	1-7
SFP-1000-90VT	1000	3785	40-337	275-2325	1760	10	253	1-5
SFP-1000-80VT	1000	3785	53-343	365-2365	1760	8	203	2-8
SFP-1000-70VT	1000	3785	213	1470	1450	6	152	12
SFP-1000-70VT	1000	3785	224	1545	1480	6	152	12
SFP-1000-70VT	1000	3785	283	1950	1760	6	152	10
SFP-1000-70VT	1000	3785	291	2005	1780	6	152	10
SFP-1250-80VT	1250	4730	40-269	275-1855	1480	8	203	2-10
SFP-1250-90VT	1250	4730	40-317	275-2185	1480	10	253	1-7
SFP-1250-90VT	1250	4730	40-329	275-2270	1760	10	253	1-5
SFP-1250-80VT	1250	4730	48-330	330-2275	1760	8	203	2-8
SFP-1500-90VT	1500	5680	40-309	275-2130	1480	10	253	1-7
SFP-1500-90VT	1500	5680	40-314	275-2165	1760	10	253	1-5
SFP-1500-80VT	1500	5680	45-312	310-2150	1760	8	203	2-8
SFP-1500-80VT	1500	5680	49-254	340-1750	1480	8	203	2-10
SFP-2000-90VT	2000	7570	40-274	275-1890	1450	10	253	1-7
SFP-2000-90VT	2000	7570	40-288	275-1985	1480	10	253	1-7
SFP-2000-90VT	2000	7570	40-302	275-2080	1760	10	253	1-5



Member of the FM Global Group



Fixed Extinguishing Systems | Clean Agents | [Clean Agent Fire Extinguishing Systems](#)

SFFECO 500 PSI Engineered FK-5-1-12 Fire Extinguishing System

Product Description

System Designation:	500 PSI FK-5-1-12
System Type:	Engineered Clean Agent Fire Extinguishing System
Agent Identification:	FK-5-1-12
Minimum and Maximum Agent Storage Temperatures:	Balanced Systems: 32 to 130°F (0 to 54.4°C) Unbalanced Systems: 60 to 80°F (16 to 27°C)
Types of Nozzles Available:	180°, 360°
Minimum and Maximum Nozzle Heights:	1.0 to 16.0 ft (0.33 to 4.87 m)
Maximum Area of Coverage for Nozzle Type:	360°: 1600 ft ² (148.65 m ²); Maximum Radial Coverage (Distance to Farthest Corner): 28.28 ft (8.62 m) 180°: 1600 ft ² (148.65 m ²); Maximum Radial Coverage (Distance to Farthest Corner): 44.72 ft (13.63 m)
Minimum Design Concentrations for Hazard Class:	Class A: 4.5% Class B: 5.85% (for liquids other than heptane, see system manual)
Flow Calculation Software:	Sffeco Flow Calculation Software SFF_v4.00.857.467
Design, Installation, Operation, and Maintenance Manual(s):	Sffeco Engineered FK-5-1-12 (500 PSI) Clean Agent Fire Suppression System Design, Installation, Operation, and Maintenance Manual, SF-95112-M, Rev 0.0, April 1st, 2021 Sffeco Clean Agent FK-5-1-12 Fill Manual, SF-95112-FM Rev 0.0, April 1st 2021
Limitations or Exceptions to Approval:	Limitations as defined in the software and manuals listed above
Approved Filling Stations:	Saudi Factory for Fire Equipment Co 2nd Industrial Area Al-Kharj Rd Po Box 58469 Riyadh, 11515 Saudi Arabia

Details

Category	Clean Agent Fire Extinguishing Systems
Class of Work	5612 - Exting Agent, Liquefied Gas

Company

Saudi Factory for Fire Equipment Co
2nd Industrial Area Al-Kharj Rd,
PO Box 58469, Riyadh 11515,
Saudi Arabia
<http://sffeco.com>



Certification Type	FM Approved
Agent Type	FK-5-1-12
Listing Country	Saudi Arabia



Fixed Extinguishing Systems | Clean Agents | **Clean Agent Fire Extinguishing Systems**

SFFECO 360 PSI Engineered HFC-227ea Fire Extinguishing System

Product Description

System Designation:	360 PSI HFC-227ea
System Type:	Engineered Clean Agent Fire Extinguishing System
Agent Identification:	HFC-227ea
Minimum and Maximum Agent Storage Temperatures:	Balanced Systems: 32 to 122°F (0 to 50°C) Unbalanced Systems: 60 to 80°F (16 to 27°C)
Types of Nozzles Available:	180°, 360°
Minimum and Maximum Nozzle Heights:	1.0 to 16.0 ft (0.33 to 4.87 m)
Maximum Area of Coverage for Nozzle Type:	360°: 1600 ft ² (148.65 m ²); Maximum Radial Coverage (Distance to Farthest Corner): 28.28 ft (8.62 m) 180°: 1600 ft ² (148.65 m ²); Maximum Radial Coverage (Distance to Farthest Corner): 44.72 ft (13.63 m)
Minimum Design Concentrations for Hazard Class:	Class A: 6.96% Class B: 8.71% (for liquids other than heptane, see system manual)
Flow Calculation Software:	Sffeco Flow Calculation Software SFF_v4.00.857.467
Design, Installation, Operation, and Maintenance Manual(s):	Sffeco Engineered HFC-227ea (360 PSI) Clean Agent Fire Suppression System Design, Installation, Operation, and Maintenance Manual, SF-90225-D, Rev 0.0, April 1st, 2021 Sffeco Clean Agent HFC-227ea Fill Manual, SF-92221-FM Rev 0.0, April 1st 2021
Limitations or Exceptions to Approval:	Limitations as defined in the software and manuals listed above
Approved Filling Stations:	Saudi Factory for Fire Equipment Co 2nd Industrial Area Al-Kharj Rd Po Box 58469 Riyadh, 11515 Saudi Arabia

Details

Category	Clean Agent Fire Extinguishing Systems
Class of Work	5612 - Exting Agent, Liquefied Gas

Company

Saudi Factory for Fire Equipment Co
2nd Industrial Area Al-Kharj Rd,
PO Box 58469, Riyadh 11515,
Saudi Arabia
<http://sffeco.com>



Certification Type	FM Approved
Agent Type	HFC-227ea
Listing Country	Saudi Arabia

Dry Barrel Hydrants

Hydrants are aboveground extensions of underground water mains, equipped with valves and/or connections for attaching fire hose. On FM Approved models, the pressure containing parts are usually made of cast iron or ductile iron. The valve seat, valve guide and other important working parts are usually made of bronze. A weather cap on the operating stem nut prevents the accumulation of ice, which would cause the hydrant to bind. Hose nipples are threaded, leaded and pinned, or twist-locked and set-screwed into the hydrant upper body.

The valve is opened or closed by a 15 in. (380 mm) long wrench fitted onto the operating stem nut. To prevent freezing, any water in the hydrant barrel drains out at the bottom through a small valve which opens simultaneously as the hydrant is shut down after use.

The name of the manufacturer and the year of manufacture are cast on the barrel, as well as the working pressure and the depth of bury line. On the bonnet, an arrow and the word "open" show the direction for opening the hydrant. The counterclockwise direction to open is required. Hydrants with pumper connections are not recommended for installation within plant yards.

Plans for installation of hydrants should be forwarded to your insurance company for review prior to installation. In particular, plans should be submitted if the hose and/or outlet connections are different from those listed below.

FM Approved hydrants can usually be obtained with standardized mechanical joint inlet or flanged inlet connections. Other types of inlet connection are mentioned in the specific manufacturer's listings. Hydrants should be anchored in accordance with FM Global Property Loss Prevention Data Sheet 3-10 or equal.

Standard outlets are for 2 1/2 in. (64 mm) hose size. Hydrants can be obtained with independent hose gate valves. Hydrant sizes shown are the inside diameter of the main hydrant valve. Unless otherwise noted in the listing, the hydrants have 175 psi (1205 kPa) rated working pressure.

Some hydrants, referred to as traffic types, have intentional sections of weakness near the ground line which fracture readily when struck with sufficient force by a moving motor vehicle. They are used to minimize damage to the main hydrant valve and simplify repairs.

Unless otherwise specified, the standard FM Approved hydrant inlet connection is 6 in. NPS.

Model SF-F-06

Model SF-F-06 Traffic Type				
Size, inch (mm)	Hose Outlets, inch (mm)	Pumper Connection, inch (mm)	Rated working pressure, psi (kPa)	Remarks
5 1/4 (133)	Two - 2 1/2 (64)	5 (127)	250 (1725)	—

Company Name:	Saudi Factory for Fire Equipment Co (SF FEC0)
Company Address:	Box 4441, 2nd Industrial Area, Al-Kharj Road, Riyadh 14334, Kindom of Saudi Arabia
Company Website:	http://www.sffeco.com
New/Updated Product Listing:	No
Listing Country:	Saudi Arabia
Certification Type:	FM Approved