



Certificate of Compliance

This certificate is issued for the following:

Centrifugal Fire Pumps
(Horizontal, End Suction Type)

WF-2.5x10 ESF, WF-3x10 ESF, WF-3x12 ESF, WF-4x10 ESF and WF-4x12 ESF
(see attached listing)

Prepared for:

Waterfall Pumps Manufacturing
Al Ttay, Warehouse No 1-5
Plot No 2840764
PO Box No: 446054, Dubai
United Arab Emirates

FM Approvals Class: 1319 (January 2018)

Approval Identification: PR451178

Approval Granted: July 6, 2020

To verify the product continues to be Approved 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".

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



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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>
WF-2.5x10 ESF	50	190	78-130	540-895	2800	4	2.5	1
WF-2.5x10 ESF	50	190	84-139	580-960	2900	4	2.5	1
WF-2.5x10 ESF	50	190	87-144	600-995	2950	4	2.5	1
WF-2.5x10 ESF	50	190	90-149	620-1025	3000	4	2.5	1
WF-2.5x10 ESF	50	190	124-203	855-1400	3500	4	2.5	1
WF-2.5x10 ESF	100	380	78-129	540-890	2800	4	2.5	1
WF-2.5x10 ESF	100	380	84-139	580-960	2900	4	2.5	1
WF-2.5x10 ESF	100	380	87-144	600-995	2950	4	2.5	1
WF-2.5x10 ESF	100	380	90-149	620-1025	3000	4	2.5	1
WF-2.5x10 ESF	100	380	124-203	855-1400	3500	4	2.5	1
WF-2.5x10 ESF	150	580	78-129	540-890	2800	4	2.5	1
WF-2.5x10 ESF	150	580	84-138	580-950	2900	4	2.5	1
WF-2.5x10 ESF	150	580	87-143	600-985	2950	4	2.5	1
WF-2.5x10 ESF	150	580	90-148	620-1020	3000	4	2.5	1
WF-2.5x10 ESF	150	580	123-202	850-1395	3500	4	2.5	1
WF-2.5x10 ESF	200	755	77-129	530-890	2800	4	2.5	1
WF-2.5x10 ESF	200	755	83-138	570-950	2900	4	2.5	1
WF-2.5x10 ESF	200	755	86-143	595-985	2950	4	2.5	1
WF-2.5x10 ESF	200	755	89-148	615-1020	3000	4	2.5	1
WF-2.5x10 ESF	200	755	123-202	850-1395	3500	4	2.5	1
WF-2.5x10 ESF	250	945	76-128	525-885	2800	4	2.5	1
WF-2.5x10 ESF	250	945	82-137	565-945	2900	4	2.5	1
WF-2.5x10 ESF	250	945	85-142	585-980	2950	4	2.5	1
WF-3x10 ESF	250	945	88-131	605-905	2800	5	3	1
WF-2.5x10 ESF	250	945	88-147	605-1015	3000	4	2.5	1
WF-3x10 ESF	250	945	94-140	650-965	2900	5	3	1
WF-3x10 ESF	250	945	98-146	675-1005	2950	5	3	1
WF-3x10 ESF	250	945	100-151	690-1040	3000	5	3	1
WF-3x10 ESF	250	945	122-206	840-1420	3500	5	3	1
WF-2.5x10 ESF	250	945	123-202	850-1395	3500	4	2.5	1
WF-2.5x10 ESF	300	1135	75-127	515-875	2800	4	2.5	1
WF-2.5x10 ESF	300	1135	80-137	550-945	2900	4	2.5	1
WF-2.5x10 ESF	300	1135	83-142	570-980	2950	4	2.5	1
WF-2.5x10 ESF	300	1135	87-147	600-1015	3000	4	2.5	1
WF-3x10 ESF	300	1135	88-130	605-895	2800	5	3	1
WF-3x10 ESF	300	1135	94-140	650-965	2900	5	3	1
WF-3x10 ESF	300	1135	98-145	675-1000	2950	5	3	1
WF-3x10 ESF	300	1135	100-150	690-1035	3000	5	3	1
WF-2.5x10 ESF	300	1135	122-202	841-1395	3500	4	2.5	1



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<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>
WF-3x12 ESF	300	1135	122-198	840-1365	2800	5	3	1
WF-3x10 ESF	300	1135	122-205	840-1415	3500	5	3	1
WF-3x12 ESF	300	1135	132-213	910-1470	2900	5	3	1
WF-3x12 ESF	300	1135	136-220	940-1515	2950	5	3	1
WF-3x12 ESF	300	1135	141-228	970-1570	3000	5	3	1
WF-3x12 ESF	300	1135	194-313	1340-2160	3500	5	3	1
WF-2.5x10 ESF	400	1515	71-122	490-840	2800	4	2.5	1
WF-2.5x10 ESF	400	1515	77-131	530-905	2900	4	2.5	1
WF-2.5x10 ESF	400	1515	80-136	550-940	2950	4	2.5	1
WF-4x10 ESF	400	1515	82-124	565-855	2800	5	4	1
WF-2.5x10 ESF	400	1515	83-140	570-965	3000	4	2.5	1
WF-3x10 ESF	400	1515	85-126	585-870	2800	5	3	1
WF-4x10 ESF	400	1515	88-133	605-915	2900	5	4	1
WF-4x10 ESF	400	1515	91-138	625-950	2950	5	4	1
WF-3x10 ESF	400	1515	91-140	625-965	2900	5	3	1
WF-4x10 ESF	400	1515	94-142	650-980	3000	5	4	1
WF-3x10 ESF	400	1515	94-145	650-1000	2950	5	3	1
WF-3x10 ESF	400	1515	97-150	670-1035	3000	5	3	1
WF-2.5x10 ESF	400	1515	118	815	3500	4	2.5	1
WF-3x12 ESF	400	1515	120-196	825-1350	2800	5	3	1
WF-3x10 ESF	400	1515	122-204	840-1405	3500	5	3	1
WF-3x12 ESF	400	1515	129-210	890-1450	2900	5	3	1
WF-4x10 ESF	400	1515	132-197	910-1360	3500	5	4	1
WF-3x12 ESF	400	1515	134-218	925-1505	2950	5	3	1
WF-3x12 ESF	400	1515	139-225	960-1550	3000	5	3	1
WF-3x12 ESF	400	1515	192-311	1325-2145	3500	5	3	1
WF-4x10 ESF	450	1705	82-124	565-855	2800	5	4	1
WF-3x10 ESF	450	1705	85-125	585-860	2800	5	3	1
WF-4x10 ESF	450	1705	88-133	605-915	2900	5	4	1
WF-3x10 ESF	450	1705	91-134	625-925	2900	5	3	1
WF-4x10 ESF	450	1705	91-138	625-950	2950	5	4	1
WF-3x10 ESF	450	1705	94-139	650-960	2950	5	3	1
WF-4x10 ESF	450	1705	94-142	650-980	3000	5	4	1
WF-3x10 ESF	450	1705	97-145	670-1000	3000	5	3	1
WF-3x12 ESF	450	1705	118-195	815-1345	2800	5	3	1
WF-3x10 ESF	450	1705	122-203	840-1400	3500	5	3	1
WF-3x12 ESF	450	1705	127-209	875-1440	2900	5	3	1
WF-3x12 ESF	450	1705	131-216	905-1490	2950	5	3	1
WF-4x10 ESF	450	1705	132-197	910-1360	3500	5	4	1



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WF-3x12 ESF	450	1705	137-224	945-1545	3000	5	3	1
WF-3x12 ESF	450	1705	191-310	1315-2135	3500	5	3	1
WF-4x10 ESF	500	1895	81-124	560-855	2800	5	4	1
WF-3x10 ESF	500	1895	84-125	580-860	2800	5	3	1
WF-4x10 ESF	500	1895	87-133	600-915	2900	5	4	1
WF-3x10 ESF	500	1895	91-134	625-925	2900	5	3	1
WF-4x10 ESF	500	1895	91-138	625-950	2950	5	4	1
WF-3x10 ESF	500	1895	94-139	650-960	2950	5	3	1
WF-4x10 ESF	500	1895	94-142	650-980	3000	5	4	1
WF-3x10 ESF	500	1895	97-144	670-995	3000	5	3	1
WF-3x12 ESF	500	1895	115-193	795-1330	2800	5	3	1
WF-4x12 ESF	500	1895	119-192	820-1325	2800	5	4	1
WF-3x10 ESF	500	1895	120-201	825-1385	3500	5	3	1
WF-3x12 ESF	500	1895	124-207	855-1425	2900	5	3	1
WF-4x12 ESF	500	1895	129-206	890-1420	2900	5	4	1
WF-3x12 ESF	500	1895	129-215	890-1480	2950	5	3	1
WF-4x10 ESF	500	1895	131-197	910-1360	3500	5	4	1
WF-4x12 ESF	500	1895	133-213	915-1470	2950	5	4	1
WF-3x12 ESF	500	1895	134-222	925-1530	3000	5	3	1
WF-4x12 ESF	500	1895	137-221	945-1525	3000	5	4	1
WF-3x12 ESF	500	1895	190-309	1310-2130	3500	5	3	1
WF-4x10 ESF	750	2840	76-119	525-820	2800	5	4	1
WF-4x10 ESF	750	2840	82-128	565-885	2900	5	4	1
WF-4x10 ESF	750	2840	86-133	595-915	2950	5	4	1
WF-4x10 ESF	750	2840	89-138	615-950	3000	5	4	1
WF-4x12 ESF	750	2840	109-186	750-1280	2800	5	4	1
WF-4x12 ESF	750	2840	118-201	815-1385	2900	5	4	1
WF-4x12 ESF	750	2840	123-208	850-1435	2950	5	4	1
WF-4x10 ESF	750	2840	125-192	860-1325	3500	5	4	1
WF-4x12 ESF	750	2840	128-215	885-1480	3000	5	4	1
WF-3x12 ESF	750	2840	139-197	960-1360	2950	5	3	1
WF-3x12 ESF	750	2840	145-204	1000-1405	3000	5	3	1
WF-3x12 ESF	750	2840	171-296	1180-2040	3500	5	3	1
WF-3x12 ESF	750	2840	190	1310	2900	5	3	
WF-4x10 ESF	1000	3785	108	745	2800	5	4	1
WF-4x10 ESF	1000	3785	116-184	800-1270	3500	5	4	1
WF-4x10 ESF	1000	3785	118	815	2900	5	4	1
WF-4x10 ESF	1000	3785	123	850	2950	5	4	1
WF-4x10 ESF	1000	3785	127	875	3000	5	4	1



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WF-4x12 ESF	1000	3785	129-196	890-1350	2950	5	4	1
WF-4x12 ESF	1000	3785	136-203	940-1400	3000	5	4	1
WF-4x12 ESF	1000	3785	173	1195	2800	5	4	1
WF-4x12 ESF	1000	3785	187	1290	2900	5	4	1



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