

CERTIFICATE OF COMPLIANCE

Certificate Number 20131227-EX2864
Report Reference EX2864-19630830
Issue Date 2013-DECEMBER-27

Issued to: S A ARMSTRONG
23 BERTRAND AVE
TORONTO, ON M1L 2P3 CANADA


This is to certify that representative samples of CENTRIFUGAL FIRE PUMPS
See Addendum page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ULC/ORD C448, Guide for the Investigation of Pumps for Fire-Protection Service

Additional Information: See the ULC Online Certification Directory at www.ulc.ca for additional information

Only those products bearing the ULC Listing Mark should be considered as being covered by ULC's Listing and Follow-Up Service.

The ULC Listing Mark generally includes the following elements: the symbol ULC in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by ULC; and the product category name (product identifier) as indicated in the appropriate ULC Directory.

To confirm the status, validate the above information via the online directory.

Look for the ULC Listing Mark on the product.



John Arrabito, Vice President and Treasurer

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current ULC requirements.

Centrifugal Fire Pumps Horizontal Shaft

Rated Capacity L/Min (USgpm)	Inlet x Outlet Nominal Pipe Size	Model Designation	Rated Net Head Pressure Range kPa (psi)	Max Allowable Discharge Pressure, kPa (psi)	Approx. Speed r/m
Standard Fire Pumps, Two-Stage					
1900 (500)	5x4	4B2H-F	900-1030 (130-150)	1720 (250)	1775
1900 (500)	5x4	4B2H-F	1030-1190 (149-172)	1720 (250)	1900
1900 (500)	6x5	5B2N-F	1190-1380 (173-200)	1930 (280)	1775
1900 (500)	6x5	5B2N-5F	1190-1930 (173-280)	2500 (360)	1775
1900 (500)	6x5	5B2N-5F	1370-2200 (198-321)	2500 (360)	1900
2800 (750)	6x5	5B2N-F	1030-1930 (150-280)	1930 (280)	1775
2800 (750)	6x5	5B2N-5F	1030-1930 (150-280)	2500 (360)	1775
2800 (750)	6x5	5B2N-5F	1190-2200 (172-321)	2500 (360)	1900
3800 (1000)	6x5	5B2N-5F	1500 (217)	2500 (360)	1750
3800 (1000)	6x5	5B2N-5F	1760 (256)	2500 (360)	1900

Standard Fire Pumps, Single-Stage

950 (250)	4x3	3BF-F	275-620 (40-90)	1380 (200)	1755
1100 (300)	4x3	3BB-F	600-970 (87-141)	1380 (200)	3545
1500 (400)	4x3	3BB-F	600-620 (87-90)	1380 (200)	3545
1900 (500)	5x4	4BE-F	275-480 (40-70)	1380 (200)	1770
1900 (500)	5x4	4BE-F	320-560 (46-81)	1380 (200)	1900
1900 (500)	5x4	4BE-F	790-1860 (115-270)	1860 (270)	3560
1900 (500)	5x4	4BE-5F	700-1790 (100-260)	2400 (350)	3300
1900 (500)	5x4	4BE-5F	790-2000 (115-290)	2400 (350)	3570
1900 (500)	5x4	4BP-F	550-830 (80-120)	1380 (200)	1775
1900 (500)	5x4	4BP-F	630-950 (92-137)	1380 (200)	1900

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Centrifugal Fire Pumps Horizontal Shaft

Rated Capacity L/Min (USgpm)	Inlet x Outlet Nominal Pipe Size	Model Designation	Rated Net Head Pressure Range kPa (psi)	Max Allowable Discharge Pressure, kPa (psi)	Approx. Speed r/m
Standard Fire Pumps, Two-Stage					
1900 (500)	5x4	4B2H-F	900-1030 (130-150)	1720 (250)	1775
1900 (500)	5x4	4B2H-F	1030-1190 (149-172)	1720 (250)	1900
1900 (500)	6x5	5B2N-F	1190-1380 (173-200)	1930 (280)	1775
1900 (500)	6x5	5B2N-5F	1190-1930 (173-280)	2500 (360)	1775
1900 (500)	6x5	5B2N-5F	1370-2200 (198-321)	2500 (360)	1900
2800 (750)	6x5	5B2N-F	1030-1930 (150-280)	1930 (280)	1775
2800 (750)	6x5	5B2N-5F	1030-1930 (150-280)	2500 (360)	1775
2800 (750)	6x5	5B2N-5F	1190-2200 (172-321)	2500 (360)	1900
3800 (1000)	6x5	5B2N-5F	1500 (217)	2500 (360)	1750
3800 (1000)	6x5	5B2N-5F	1760 (256)	2500 (360)	1900

Standard Fire Pumps, Single-Stage

950 (250)	4x3	3BF-F	275-620 (40-90)	1380 (200)	1755
1100 (300)	4x3	3BB-F	600-970 (87-141)	1380 (200)	3545
1500 (400)	4x3	3BB-F	600-620 (87-90)	1380 (200)	3545
1900 (500)	5x4	4BE-F	275-480 (40-70)	1380 (200)	1770
1900 (500)	5x4	4BE-F	320-560 (46-81)	1380 (200)	1900
1900 (500)	5x4	4BE-F	790-1860 (115-270)	1860 (270)	3560
1900 (500)	5x4	4BE-5F	700-1790 (100-260)	2400 (350)	3300
1900 (500)	5x4	4BE-5F	790-2000 (115-290)	2400 (350)	3570
1900 (500)	5x4	4BP-F	550-830 (80-120)	1380 (200)	1775
1900 (500)	5x4	4BP-F	630-950 (92-137)	1380 (200)	1900

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Rated Capacity L/Min (USgpm)	Inlet x Outlet Nominal Pipe Size	Model Designation	Rated Net Head Pressure Range kPa (psi)	Max Allowable Discharge Pressure, kPa (psi)	Approx. Speed r/m
3790 (1000)	6X5	6X5-9.5F	500-560 (81-73)	1620 (235)	2945
3790 (1000)	6X5	6X5-9.5F	530-590 (85-77)	1620 (235)	3000
3790 (1000)	6X5	6X5-9.5F	590-880 (128-85)	1620 (235)	3560
3790 (1000)	6X5	6X5-10F	770-610 (112-88)	2410 (350)	2945
3790 (1000)	6X5	6X5-10F	810-630 (117-92)	2410 (350)	3000
3790 (1000)	6X5	6X5-10F	1170-680 (170-99)	2410 (350)	3560
3790 (1000)	6X5	6X5-15F	660-350 (96-51)	2410 (350)	1780
3790 (1000)	6X5	6X5-12HF	530-830 (77-120)	2480 (360)	2350
3790 (1000)	6X5	6X5-12MF	640-920 (93-134)	2480 (360)	2600
3790 (1000)	6X5	6X5-12MF	760-1090 (111-158)	2480 (360)	2800
3790 (1000)	6X5	6X5-12MF	720-1220 (104-177)	2480 (360)	2945
3790 (1000)	6X5	6X5-12MF	930-1860 (135-270)	2480 (360)	3560
3790 (1000)	6X5	6X5-15F	940-520 (137-75)	2410 (350)	2100
3800 (1000)	6X5	5BN-F	520-860 (75-125)	1380 (200)	1775
3800 (1000)	6X5	5BN-F	590-990 (86-143)	1380 (200)	1900
3800 (1000)	8X6	6BE-F	275-480 (40-70)	1380 (200)	1750
3800 (1000)	8X6	6BE-F	320-570 (46-83)	1380 (200)	1900
3790 (1000)	8X6	8X6-10LF	655-410 (95-59)	1900 (275)	2600
3790 (1000)	8X6	8X6-10LF	860-430 (125-62)	1900 (275)	2945
3790 (1000)	8X6	8X6-10LF	900-450 (131-65)	1900 (275)	3000
3790 (1000)	8X6	8X6X16F	345-500 (50-72.5)	1760 (255)	1450
3790 (1000)	8X6	8X6X16F	420-780 (61-113)	1760 (255)	1780
3790 (1000)	8X6	8X6X16F	600-1120 (87-162)	1760 (255)	2100
3790 (1000)	8X6	8X6X16F	660-1050 (96-152)	1760 (255)	2200
3790 (1000)	8X6	8X6X16F	765-1200 (111-174)	1760 (255)	2350
4730 (1250)	6X5	6X5-15F	630-520 (92-75)	2410 (350)	1790
4730 (1250)	6X5	6X5-15F	920-530 (133-77)	2410 (350)	2100
4730 (1250)	6X5	6X5-15F	1170-620 (170-90)	2410 (350)	2350
4730 (1250)	6X5	6X5-15F	1460-800 (212-116)	2410 (350)	2600
4730 (1250)	6X5	6X5-15F	1410-940 (205-136)	2410 (350)	2800
4730 (1250)	6X5	6X5-15F	1580-1070 (229-155)	2410 (350)	2960
4730 (1250)	6X5	6X5-12MF	1010-1780 (146-258)	2480 (360)	3560

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4730 (1250)	8X6	8X6-12.5MF	350-540 (51-78)	1900 (275)		2350
4730 (1250)	8X6	6BH-F	380-430 (55-63)	1380 (200)		1775
4730 (1250)	8X6	6BH-F	430-500 (63-72)	1380 (200)		1900
4730 (1250)	8X6	8X6-10LF	830-510 (120-74)	1900 (275)		2945
4730 (1250)	8X6	8X6-10LF	860-530 (125-77)	1900 (275)		3000
4730 (1250)	8X6	8X6-10LF	1240-610 (180-89)	1900 (275)		3560
4730 (1250)	8X6	8X6-12.5HF	510-275 (74-40)	1550 (225)		1780
4730 (1250)	8X6	8X6-12.5HF	730-400 (106-58)	1550 (225)		2100
4730 (1250)	8X6	8X6-12.5HF	920-520 (134-76)	1550 (225)		2350
4730 (1250)	8X6	8X6-12.5LF	1310-830 (190-121)	2480 (360)		2945
4730 (1250)	8X6	8X6-12.5LF	1340-860 (194-125)	2480 (360)		3000
4730 (1250)	8X6	8X6-12.5LF	1760-960 (255-139)	2480 (360)		3560
4730 (1250)	8X6	8X6X16F	320-470 (46-68)	1760 (255)		1450
4730 (1250)	8X6	8X6X16F	390-760 (57-110)	1760 (255)		1780
4730 (1250)	8X6	8X6X16F	580-1090 (84-158)	1760 (255)		2100
4730 (1250)	8X6	8X6X16F	630-1030 (92-150)	1760 (255)		2200
4730 (1250)	8X6	8X6X16F	745-1180 (108-171)	1760 (255)		2350
5680 (1500)	8X6	8X6-12.5MF	500-680 (72-98)	1900 (275)		2350
5680 (1500)	8X6	8X6-12.5MF	570-870 (82-126)	1900 (275)		2600
5680 (1500)	8X6	8X6-12.5MF	760-1150 (111-167)	1900 (275)		2945
5680 (1500)	8X6	8X6-15HF	320-500 (47-72)	1900 (275)		1450
5680 (1500)	8X6	8X6-15HF	520-770 (75-112)	1900 (275)		1780
5680 (1500)	8X6	8X6-15MF	340-710 (50-103)	1900 (275)		1780
5680 (1500)	8X6	8X6-15MF	510-1020 (74-141)	1900 (275)		2100
5680 (1500)	8X6	8X6-15MF	660-1290 (96-187)	1900 (275)		2350
5680 (1500)	6X5	6X5-15F	1130-840 (164-122)	2410 (350)		2350
5680 (1500)	6X5	6X5-15F	1420-840 (207-122)	2410 (350)		2600
5680 (1500)	6X5	6X5-15F	1360-880 (197-128)	2410 (350)		2800
5680 (1500)	6X5	6X5-15F	1540-1010 (223-146)	2410 (350)		2960

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Rated Capacity		Inlet x Outlet Nominal Pipe Size	Model Designation	Rated Net Head Pressure Range		Max Allowable Discharge Pressure, kPa (psi)		Approx. Speed r/m
L/Min	(USgpm)			kPa (psi)				
5680	(1500)	8X6	6BK-F	345-570	(50-83)	1380	(200)	1750
5680	(1500)	8X6	6BK-F	410-670	(59-98)	1380	(200)	1900
5680	(1500)	8X6	6BN-F	700-890	(100-129)	1380	(200)	1750
5680	(1500)	8X6	6BN-F	810-1050	(118-152)	1380	(200)	1900
5680	(1500)	8X6	8X6-10LF	790-650	(115-94)	1900	(275)	2945
5680	(1500)	8X6	8X6-10LF	820-690	(119-100)	1900	(275)	3000
5680	(1500)	8X6	8X6-10LF	1200-750	(174-109)	1900	(275)	3560
5680	(1500)	8X6	8X6-12.5HF	500-340	(73-49)	1550	(225)	1780
5680	(1500)	8X6	8X6-12.5HF	710-370	(103-54)	1550	(225)	2100
5680	(1500)	8X6	8X6-12.5HF	900-500	(131-73)	1550	(225)	2350
5680	(1500)	8X6	8X6-12.5LF	1700-1230	(247-178)	2480	(360)	3560
5680	(1500)	8X6	8X6X16F	500-725	(72-105.5)	1760	(255)	1780
5680	(1500)	8X6	8X6X16F	540-1060	(78-154)	1760	(255)	2100
5680	(1500)	8X6	8X6X16F	610-1010	(88-146)	1760	(255)	2200
5680	(1500)	8X6	8X6X16F	720-1155	(104-167.5)	1760	(255)	2350
7570	(2000)	8X6	8X6X16F	830-980	(120-142)	1760	(255)	2100
7570	(2000)	8X6	8X6-15HF	480-740	(70-107)	1900	(275)	1780
7570	(2000)	8X6	8X6-15MF	540-660	(79-96)	1900	(275)	1780
7570	(2000)	8X6	8X6-15MF	600-970	(87-141)	1900	(275)	2100
7570	(2000)	8X6	8X6-15MF	600-1250	(87-182)	1900	(275)	2350
7570	(2000)	10X8	10X8-11HF	310-370	(45-53)	1900	(275)	1780
7570	(2000)	10X8	10X8-11HF	410-550	(59-80)	1900	(275)	2100
7570	(2000)	10X8	10X8-11HF	880-1140	(128-165)	1900	(275)	2945
7570	(2000)	10X8	10X8-11MF	690-1010	(100-146)	1900	(275)	2945
7570	(2000)	10X8	8BK-F	275-640	(40-93)	1380	(200)	1750
7570	(2000)	10X8	8BK-F	320-760	(46-110)	1380	(200)	1900
7570	(2000)	10X8	8BU-F	730-920	(106-133)	1380	(200)	1750
7570	(2000)	10X8	8BU-F	860-1080	(125-157)	1380	(200)	1900
7570	(2000)	10X8	10X8-14HF	370-390	(54-57)	2240	(325)	1450
7570	(2000)	10X8	10X8-14HF	410-630	(59-91)	2240	(325)	1780
7570	(2000)	10X8	10X8-14HF	500-900	(73-131)	2240	(325)	2100
7570	(2000)	10X8	10X8-14HF	660-1060	(96-154)	2240	(325)	2350
7570	(2000)	10X8	10X8-14LF	420-590	(61-86)	2240	(325)	1780
7570	(2000)	10X8	10X8-14LF	970-1500	(141-218)	2240	(325)	2945
7570	(2000)	12x8	12x8x18F	407-648	(59-94)	1900	(275)	1480
7570	(2000)	12x8	12x8x18F	614-951	(89-138)	1900	(275)	1780
9500	(2500)	10X8	10X8-14HF	550-590	(80-86)	2240	(325)	1780
9500	(2500)	10X8	10X8-14HF	630-880	(91-128)	2240	(325)	2100
9500	(2500)	10X8	10X8-14HF	740-1030	(107-149)	2240	(325)	2350
9500	(2500)	10X8	10X8-14LF	900-1460	(131-212)	2240	(325)	2945
9500	(2500)	12X10	I0BP-F	450-860	(65-125)	1380	(200)	1775
9500	(2500)	12X10	I0BP-F	510-990	(74-143)	1380	(200)	1900
9500	(2500)	12X10	I0BP-F	1000-1200	(146-175)	1380	(200)	2100

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9500 (2500)	12x8	12x8x18F	376-627 (54.5-91)	1900 (275)	1480
9500 (2500)	12x8	12x8x18F	583-931 (84.5-135)	1900 (275)	1780
11350 (3000)	12x8	12x8x18F	545-903 (79-131)	1900 (275)	1780



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