



Fire pump selection chart

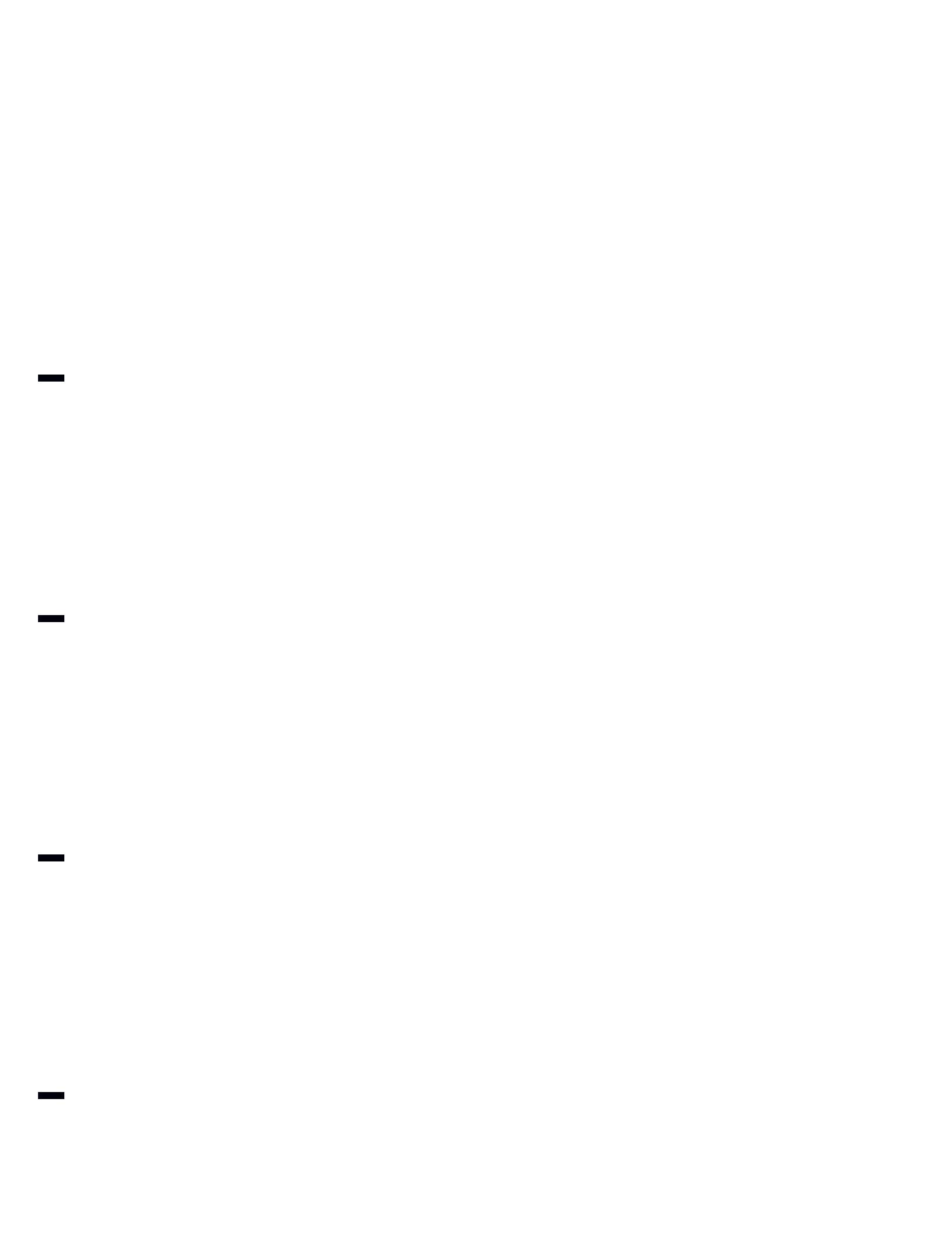
**End suction diesel
driven installed in
the United States
or Territories**

File No: F40.230US

Date: MARCH 18, 2013

Supersedes: F40.230

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CONTENTS

250 GPM	4
300 GPM	5
400 GPM	6
450 GPM	7
500 GPM	8
750 GPM	9
1000 GPM	10
1250 GPM	11
1500 GPM	12

END SUCTION - DIESEL DRIVEN

250 GPM

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
42	97	4×3×8.5FM	12	√	√	√	CFP5E-F10	2600	104
43	99		12	√	√	√			
45	104		12	√	√	√			
50	116		15	√	√	√			
55	127		16	√	√	√			
60	139		17	√	√	√			
65	150		19	√	√	√			
70	162		20	√	√	√			
75	173		22	√	√	√	JU4H-UF14	3000	71
80	185		24	√	√	√			
85	196		25	√	√	√			
90	208		27	√	√	√			
95	220		29	√	√	√			
96	222		29	√	√	√			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN

300 GPM

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
41	95	5×4×11.5FM	16	√	√	√	JU4H-UFAEAO	1760	37
45	104		15	√	√	√			
50	116		16	√	√	√			
55	127		18	√	√	√			
60	139		19	√	√	√			
65	150		21	√	√	√			
70	162		23	√	√	√	JU4H-UF14	3000	71
75	173		24	√	√	√			
80	185		26	√	√	√			
85	196		28	√	√	√			
90	208		30	√	√	√			
95	220		31	√	√	√			
100	231		43	√	√	√	JU4H-UFAEAO	2350	46
105	243		46	√	√	√			
110	254		48	√	√	√	JU4H-UFAEF2	2350	74
115	266		51	√	√	√			
120	277	4×3×13FM	51	√	√	√			
125	289		54	√	√	√			
130	300		57	√	√	√			
135	312		60	√	√	√	JU4H-UF14	3000	71
140	323		63	√	√	√			
145	335		66	√	√	√			
150	347		69	√	√	√			
155	358		72	√	√	√			
160	370		74	√	√	√			
165	381		77	√	√	√	JU4H-UF24	3000	83
170	393		80	√	√	√			
176	407		83	√	√	√			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN

400 GPM

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
45	104	6×5×13FM	21	√	√	√	JU4H-UFAEAO	1760	37
50	116		23	√	√	√			
55	127		21	√	√	√			
60	139		23	√	√	√			
65	150		25	√	√	√			
70	162		27	√	√	√		3000	71
75	173		29	√	√	√			
80	185		31	√	√	√			
85	196		33	√	√	√			
90	208		35	√	√	√			
95	220	4×3×8.5FM	48	√	√	√	JU4H-UFAEF2	2350	74
100	231		51	√	√	√			
105	243		54	√	√	√			
110	254		57	√	√	√			
115	266		57	√	√	√	JU4H-UF14	3000	71
120	277		61	√	√	√			
125	289		64	√	√	√			
130	300		67	√	√	√			
135	312		71	√	√	√			
140	323	4×3×13FM	74	√	√	√	JU4H-UF24	3000	83
145	335		77	√	√	√			
150	347		81	√	√	√			
155	358		84	√	√	√	CFP5E-F10	2600	104
160	370		87	√	√	√			
165	381	6×5×13FM	105	√	√	√	CFP5E-F20	2600	117
170	393		107	√	√	√			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN

450 GPM

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
41	95	5×4×11.5FM	21			✓	JU4H-UFAEAO	1760	37
45	104		23	✓	✓	✓			
50	116		25	✓	✓	✓			
55	127		29	✓	✓	✓			
60	139	6×5×13FM	32	✓	✓	✓	JU4H-UFAEAO	1760	37
65	150		35	✓	✓	✓			
70	162	4×3×8.5FM	29	✓	✓	✓	JU4H-UF14	3000	71
75	173		31	✓	✓	✓			
80	185		33	✓	✓	✓			
85	196		36	✓	✓	✓			
90	208	6×5×13FM	52	✓	✓	✓	JU4H-UFAEF2	2100	74
95	220		56	✓	✓	✓			
100	231		59	✓	✓	✓			
105	243		62	✓	✓	✓			
110	254	4×3×13FM	58	✓	✓	✓	JU4H-UF14	3000	71
115	266		62	✓	✓	✓			
120	277		66	✓	✓	✓			
125	289		69	✓	✓	✓			
130	300		72	✓	✓	✓	JU4H-UF24	3000	83
135	312		76	✓	✓	✓			
140	324		79	✓	✓	✓			
145	335		83	✓	✓	✓			
150	347	6×5×13FM	87	✓	✓	✓	CFP5E-F10	2600	104
155	358		91	✓	✓	✓			
160	370		94	✓	✓	✓			
165	381	6×5×13FM	110	✓	✓	✓	CFP5E-F20	2600	117
170	393		112	✓	✓	✓			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN**500 GPM**

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
40	93	8×5×11.5FM	25	√	√	√	JUAH-UFAEAO	1760	37
45	104		24	√	√	√			
50	116		27	√	√	√			
55	127		30	√	√	√	JU4H-UFAEAO	1760	37
60	139		34	√	√	√			
65	150		37	√	√	√			
70	162		40	√	√	√	JU4H-UFAEAO	2100	42
75	173		43	√	√	√			
80	185		47	√	√	√			
85	196		51	√	√	√	JU4H-UFAEF2	2100	74
90	208	6×5×13FM	55	√	√	√			
95	220		59	√	√	√			
100	231		63	√	√	√			
105	243		66	√	√	√	JU4H-UF14	2800	70
110	254		63	√	√	√			
115	266		67	√	√	√	JU4H-UF14	3000	71
120	277		70	√	√	√			
125	289		74	√	√	√			
130	300		78	√	√	√	JU4H-UF24	3000	83
135	312		81	√	√	√			
140	324	5×4×11.5FM	85	√	√	√			
145	335		89	√	√	√			
150	347		93	√	√	√	CFP5E-F10	2600	104
155	358		97	√	√	√			
160	370		113	√	√	√			
165	381		115	√	√	√	CFPE-F20	2600	117
170	393		117	√	√	√			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN

750 GPM

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
41	95	6×5×13FM	29	✓	✓	✓	JU4H-UFAEAO	1760	37
45	104		32	✓	✓	✓			
50	116		35	✓	✓	✓			
55	127	5×4×11.5FM	39	✓	✓	✓	JU4H-UFAEAO	2100	42
60	139		42	✓	✓	✓			
65	150	6×5×13FM	48	✓	✓	✓	JU4H-UFAEE8	1760	64
70	162		52	✓	✓	✓			
75	173		56	✓	✓	✓			
80	185		60	✓	✓	✓			
85	196	5×4×11.5FM	65	✓	✓	✓	JU4H-UFAAEF2	2350	74
90	208		71	✓	✓	✓			
95	220		74	✓	✓	✓			
100	231	6×5×13FM	78	✓	✓	✓	JU4H-UFADJ2	2100	99
105	243		83	✓	✓	✓			
110	254	5×4×11.5FM	85	✓	✓	✓	CFP5E-F10	2600	104
115	266		91	✓	✓	✓			
120	277		99	✓	✓	✓			
125	289		105	✓	✓	✓			
130	300	6×5×13FM	110	✓	✓	✓	CFP5E-F20	2600	117
135	312		115	✓	✓	✓			
140	324		120	✓	✓	✓			
145	335		126	✓	✓	✓			
150	347	5×4×11.5FM	130	✓	✓	✓	CFP5E-F30	2600	129
155	358		135	✓	✓	✓			
160	370		138	✓	✓	✓			
165	381		142	✓	✓	✓			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN**1000 GPM**

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
55	127	6×5×13FM	51	✓	✓	✓	JU4H-UFAEF2	2100	74
60	139		55	✓	✓	✓			
65	150		60	✓	✓	✓			
70	162		64	✓	✓	✓			
75	173		69	✓	✓	✓			
80	185		74	✓	✓	✓			
85	196		79	✓	✓	✓			
90	208		84	✓	✓	✓	JU4H-UFADJ2	2100	99
95	220		89	✓	✓	✓			
100	231		95	✓	✓	✓			
105	243		103	✓	✓	✓	CFP5E-F10	2600	104
110	254		108	✓	✓	✓	CFP5E-F20	2600	117
115	266		114	✓	✓	✓			
120	277		120	✓	✓	✓	CFP5E-F30	2600	129
125	289		126	✓	✓	✓			
130	300		132	✓	✓	✓	CFP5E-F40	2600	141
135	312		138	✓	✓	✓			
140	324		144	✓	✓	✓	CFP5E-F50	2600	148
145	335		149	✓	✓	✓	CFP7E-F10	2600	174
150	347		155	✓	✓	✓			
155	358		159	✓	✓	✓			
160	370		165	✓	✓	✓			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN**1250 GPM**

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
54	125	8x6x13FM	63	√	√	√	JU4H-UFAEF2	2100	74
55	127		64	√	√	√			
60	139		70	√	√	√			
65	150		76	√	√	√			
70	162		81	√	√	√			
75	173		87	√	√	√	JU4H-UFADJ2	2100	99
80	185		93	√	√	√			
85	196		99	√	√	√			
90	208		105	√	√	√	JU4H-UFAD5G	2100	113
95	220		111	√	√	√			
100	231	6x5x13FM	116	√	√	√	CFP5E-F20	2600	117
105	243		122	√	√	√	CFP5E-F30	2600	129
110	254		128	√	√	√			
115	266		135	√	√	√	CFP5E-F40	2600	141
120	277		138	√	√	√			
125	289		148	√	√	√	CFP5E-F50	2600	148
130	300		154	√	√	√	CFP7E-F10	2600	174
135	312		160	√	√	√			
140	324		166	√	√	√			
145	335		173	√	√	√			
150	347		178	√	√	√	CFP7E-F20	2600	189
155	358		184	√	√	√			

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

END SUCTION - DIESEL DRIVEN**1500 GPM**

HEAD		PUMP SIZE	MAX BHP	LISTING			SUGGESTED DIESEL(1)		
PSI	FT			ULC	UL	FM	MODEL	RPM	HP(2)
83	192	8x6x13FM	118	✓	✓	✓			
85	196		121	✓	✓	✓	CFP5E-F30	2600	129
90	208		128	✓	✓	✓			
95	220		135	✓	✓	✓			
100	231		141	✓	✓	✓	CFP5E-F40	2600	141
105	243		148	✓	✓	✓	CFP5E-F50	2600	148
110	254		154	✓	✓	✓			
115	266		160	✓	✓	✓			
120	277		167	✓	✓	✓	CFP7E-F10	2600	174
125	289		174	✓	✓	✓			
130	300		181	✓	✓	✓			
135	312		189	✓	✓	✓	CFP7E-F20	2600	189
140	324		196	✓	✓	✓	CFP7E-F30	2600	204
145	335		206	✓	✓	✓	CFP7E-F40	2600	219

NOTE:

(1) Engine selection is based on the most economical engine and pump speed.

Other speeds and engine may be available. Refer to pump curves and engine table file F43.720.

(2) Engine HP is only for installations up to 300ft elevation above sea level and ambient temperature of 77°F.

At higher elevations, and higher ambient temperatures, engine must be derated. See chart in diesel section file F43.720 P.3

TORONTO
+1 416 755 2291

BUFFALO
+1 716 693 8813

BIRMINGHAM
+44 (0) 8444 145 145

MANCHESTER
+44 (0) 8444 145 145

BANGALORE
+91 (0) 80 4906 3555

SHANGHAI
+86 21 3756 6696