

List Prices

Section 915
Controller and Controller Options

Pricing Effective
January 1, 2020

Supersedes Pricing Effective
February 18, 2019



AURORA® · FAIRBANKS NIJHUIS®

TORNATECH

Electric Controllers

50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start
		GPA	GPL	GPP	GPY	GPW	GPR	GPS
Suggested List								
7.5	200-208	\$6,135	\$5,947	\$6,723	\$6,978	\$9,036	\$11,446	\$11,015
	220-240	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	380-415	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	440-480	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	550-600	6,135	5,947	6,723	6,978	9,330	11,446	11,015
10	200-208	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	220-240	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	380-415	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	440-480	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	550-600	6,135	5,947	6,723	6,978	9,330	11,446	11,015
15	200-208	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	220-240	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	380-415	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	440-480	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	550-600	6,135	5,947	6,723	6,978	9,330	11,446	11,015
20	200-208	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	220-240	6,135	5,947	6,723	6,978	9,036	11,446	11,015
	380-415	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	440-480	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	550-600	6,135	5,947	6,723	6,978	9,330	11,446	11,015
25	200-208	6,135	5,947	6,723	6,978	9,036	11,446	12,093
	220-240	6,135	5,947	6,723	6,978	9,036	11,446	12,093
	380-415	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	440-480	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	550-600	6,135	5,947	6,723	6,978	9,330	11,446	11,015
30	200-208	6,135	5,947	6,723	6,978	9,428	11,446	12,093
	220-240	6,135	5,947	6,723	6,978	9,428	11,446	12,093
	380-415	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	440-480	6,135	5,947	6,723	6,978	9,330	11,446	11,015
	550-600	6,135	5,947	6,723	6,978	9,330	11,446	11,015
40	200-208	7,154		8,114	8,497	10,947	13,485	13,171
	220-240	7,154		8,114	8,497	10,947	13,485	13,171
	380-415	6,135		7,017	7,213	9,565	11,446	11,015
	440-480	6,135		6,723	6,978	9,330	11,446	11,015
	550-600	6,135		6,723	6,978	9,330	11,446	11,015
50	200-208	7,154		8,114	8,957	11,407	13,485	13,318
	220-240	7,154		8,114	8,957	11,407	13,485	13,318
	380-415	6,135		7,017	7,213	9,565	11,446	13,171
	440-480	6,135		7,017	7,213	9,565	11,446	11,015
	550-600	6,135		7,017	7,213	9,565	11,446	11,015
60	200-208	8,193		9,428	10,270	12,720	15,562	14,053
	220-240	8,193		9,428	10,270	12,720	15,562	14,053
	380-415	7,154		8,114	8,497	10,849	13,485	13,171
	440-480	7,154		8,114	8,497	10,849	13,485	13,171
	550-600	7,154		8,114	8,497	10,849	13,485	13,171
75	200-208	8,193		9,428	10,270	14,386	15,562	15,327
	220-240	8,193		9,428	10,270	14,386	15,562	15,327
	380-415	7,154		8,114	8,497	10,849	13,485	13,171
	440-480	7,154		8,114	8,497	10,849	13,485	13,171
	550-600	7,154		8,114	8,497	10,849	13,485	13,171

TORNATECH

Electric Controllers

50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start
		GPA	GPL	GPP	GPY	GPW	GPR	GPS
Suggested List								
100	200-208	9,898		12,348	13,073	17,189	18,973	18,365
	220-240	9,898		12,348	13,073	17,189	18,973	18,365
	380-415	8,193		9,428	9,976	13,308	15,562	13,485
	440-480	7,154		9,428	9,976	13,308	13,485	13,485
	550-600	7,154		9,428	9,976	13,308	13,485	13,485
125	200-208	12,760		16,288	17,287	21,403	24,696	23,951
	220-240	12,760		16,288	17,287	21,403	24,696	23,951
	380-415	8,193		9,428	11,035	14,367	15,562	15,131
	440-480	8,193		9,428	11,035	14,367	15,562	15,131
	550-600	8,193		9,428	11,035	14,367	15,562	15,131
150	200-208	12,760		16,288	17,287	21,403	24,696	24,245
	220-240	12,760		16,288	17,287	21,403	24,696	23,951
	380-415	8,193		13,034	13,367	16,699	15,562	15,131
	440-480	8,193		9,428	11,035	14,367	15,562	15,131
	550-600	8,193		9,428	11,035	14,367	15,562	15,131
200	200-208	23,206		29,341	29,150	31,007	32,997	34,143
	220-240	12,760		18,738	19,737	23,853	24,696	24,441
	380-415	12,760		13,034	13,955	17,287	24,696	24,441
	440-480	9,898		13,034	13,955	17,287	15,562	15,719
	550-600	8,193		11,329	13,955	17,287	15,562	15,719
250	200-208							
	220-240	23,206		29,341	29,150	31,007	32,997	34,143
	380-415	12,760		16,288	17,287	21,795	24,696	24,441
	440-480	12,760		16,288	17,287	21,795	24,696	24,441
	550-600	12,760		16,288	17,287	21,795	24,696	24,441
300	220-240							
	380-415	12,760		16,288	20,325	24,245	24,696	24,696
	440-480	12,760		16,288	17,875	22,383	24,696	24,696
	550-600	12,760		16,288	17,875	22,383	24,696	24,696
350	380-415	23,206		18,738	29,150	31,007	28,106	40,748
	440-480	15,562		16,288	20,325	24,833	30,302	29,047
	550-600	15,562		16,288	20,325	24,833	30,302	29,047
400	380-415	23,206		29,341	29,150	31,007	36,926	51,332
	440-480	15,562		18,738	20,325	24,833	30,302	29,047
	550-600	15,562		18,738	20,325	24,833	30,302	29,047
450	380-415	23,206		29,341	29,150	33,947	46,844	66,189
	440-480	23,206		28,008	29,150	31,007	35,045	45,668
	550-600	15,562		19,561	23,236	26,872	33,242	29,047
500	380-415							
	440-480	23,206		28,008	29,150	33,947	35,045	47,138
	550-600	15,562		22,501	23,236	31,007	33,242	29,047
600	380-415							
	440-480							
	550-600							
700	380-415							
	440-480							
	550-600							

TORNATECH
Electric Controllers With Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start
		GPA+GPU	GPL+GPU	GPP+GPU	GPY+GPU	GPW+GPU	GPR+GPU	GPS+GPU
Suggested List								
7.5	200-208	\$20,479	\$19,818	\$21,037	\$21,278	\$23,231	\$25,519	\$25,110
	220-240	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	380-415	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	440-480	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	550-600	20,479	19,818	21,037	21,278	23,510	25,519	25,110
10	200-208	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	220-240	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	380-415	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	440-480	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	550-600	20,479	19,818	21,037	21,278	23,510	25,519	25,110
15	200-208	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	220-240	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	380-415	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	440-480	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	550-600	20,479	19,818	21,037	21,278	23,510	25,519	25,110
20	200-208	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	220-240	20,479	19,818	21,037	21,278	23,231	25,519	25,110
	380-415	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	440-480	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	550-600	20,479	19,818	21,037	21,278	23,510	25,519	25,110
25	200-208	20,479	19,818	21,037	21,278	23,231	25,519	26,133
	220-240	20,479	19,818	21,037	21,278	23,231	25,519	26,133
	380-415	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	440-480	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	550-600	20,479	19,818	21,037	21,278	23,510	25,519	25,110
30	200-208	20,479	19,818	21,037	21,492	23,603	25,519	26,133
	220-240	20,479	19,818	21,037	21,278	23,603	25,519	26,133
	380-415	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	440-480	20,479	19,818	21,037	21,278	23,510	25,519	25,110
	550-600	20,479	19,818	21,037	21,278	23,510	25,519	25,110
40	200-208	21,650		22,562	22,925	25,250	27,658	27,361
	220-240	21,650		22,562	22,925	25,250	27,658	27,361
	380-415	20,479		21,316	21,502	23,734	25,519	25,110
	440-480	20,479		21,037	21,278	23,510	25,519	25,110
	550-600	20,479		21,037	21,278	23,510	25,519	25,110
50	200-208	22,283		22,562	23,371	25,687	27,658	27,509
	220-240	21,650		22,562	23,362	25,687	27,658	27,500
	380-415	20,479		21,316	21,502	23,734	25,519	25,110
	440-480	20,479		21,316	21,502	23,734	25,519	25,110
	550-600	20,479		21,316	21,502	23,734	25,519	25,110
60	200-208	23,269		24,440	25,240	27,565	30,262	28,830
	220-240	23,269		24,440	25,240	27,565	30,262	28,830
	380-415	21,650		22,562	22,925	25,157	27,658	27,361
	440-480	21,446		22,357	22,720	24,952	27,454	27,156
	550-600	21,446		22,357	22,720	24,952	27,454	27,156
75	200-208	23,622		24,794	25,594	29,500	30,616	30,392
	220-240	23,269		24,440	25,240	29,146	30,262	30,039
	380-415	21,650		22,562	22,925	25,157	27,658	27,361
	440-480	21,650		22,562	22,925	25,157	27,658	27,361
	550-600	21,446		22,357	22,720	24,952	27,454	27,156

TORNATECH
Electric Controllers With Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start
		GPA+GPU	GPL+GPU	GPP+GPU	GPY+GPU	GPW+GPU	GPR+GPU	GPS+GPU
Suggested List								
100	200-208	26,226		28,049	29,239	33,145	34,838	34,261
	220-240	24,887		27,212	28,263	32,159	33,852	32,922
	380-415	23,269		24,440	24,961	28,123	30,262	28,291
	440-480	21,650		23,808	24,329	27,491	27,658	27,658
	550-600	21,650		23,808	24,329	27,491	27,658	27,658
125	200-208	28,942		32,290	39,460	37,144	40,269	39,562
	220-240	28,942		32,290	33,238	37,144	40,269	39,562
	380-415	23,269		24,440	25,966	29,128	30,262	28,291
	440-480	23,269		24,440	25,966	29,128	30,262	29,853
	550-600	22,636		23,808	25,333	28,495	29,630	29,221
150	200-208	33,545		36,884	39,460	41,738	44,863	44,435
	220-240	28,942		32,290	33,238	43,366	40,269	39,841
	380-415	23,622		28,216	28,532	31,694	30,616	29,853
	440-480	23,269		24,440	25,966	29,128	30,262	29,853
	550-600	23,269		23,808	25,333	28,495	30,262	29,221
200	200-208	43,161		50,722	50,118	53,689	54,489	61,957
	220-240	33,545		40,836	41,785	45,691	46,491	46,249
	380-415	28,942		29,202	30,076	33,238	40,269	30,206
	440-480	26,226		29,202	30,076	31,899	31,601	30,764
	550-600	23,269		26,245	28,737	31,899	30,262	30,411
250	200-208							
	220-240	46,268		50,722	50,118	55,940	57,725	78,790
	380-415	33,545		32,290	33,238	37,516	44,863	44,621
	440-480	28,942		32,290	33,238	37,516	40,269	40,027
	550-600	28,942		31,304	33,238	36,530	39,283	39,041
300	220-240							
	380-415	33,545		36,884	40,715	44,435	44,863	44,863
	440-480	28,942		32,290	33,796	38,074	40,269	40,269
	550-600	28,942		32,290	33,796	38,074	40,269	40,269
350	380-415	53,075		49,299	42,343	54,619	57,725	59,641
	440-480	36,205		36,884	40,715	44,993	50,183	50,620
	550-600	31,601		32,290	36,121	40,399	45,589	44,398
400	380-415	57,753		59,464	52,136	57,800	64,310	79,775
	440-480	40,148		40,836	40,715	44,993	50,183	61,613
	550-600	37,823		34,615	42,343	40,399	45,589	44,398
450	380-415	65,007		68,615	52,136	71,833	79,599	96,943
	440-480	47,393		52,034	52,136	56,711	60,603	61,613
	550-600	46,891		40,604	52,136	47,523	48,379	44,398
500	380-415							
	440-480	49,253		58,795	52,136	66,011	79,599	66,365
	550-600	46,891		52,034	52,136	52,480	51,169	61,613
600	380-415							
	440-480							
	550-600							
700	380-415							
	440-480							
	550-600							

**TORNATECH
CONTROLLER COMPONENT
50HZ and 60HZ ELECTRIC MOTOR DRIVE**
For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

Tornatech Electric Controller Option List Pricing

Option	Description	Std Cont List Price
A4	Flow switch provision	59
A8	Foam pump application w/o pressure transducer and run test solenoid valve	(333)
A9	Low zone pump control function	44
A10	Medium zone pump control function	440
A11	High zone pump control function	396
A13	Non-pressure actuated controller w/o pressure transducer and run test solenoid valve	(333)
A16	Lockout/interlock circuit from equipment installed inside pump room	176
B11	Built in alarm panel (120VAC supervisory power providing indication for: audible alarm & silence, motor run, phase reversal, loss of phase, and pilot lights	342
B11B	Built in alarm panel same as above but	401
B19A	High motor temperature c/w visual indication and alarm contact (Form C-SPDT)	450
B19B	High motor temperature c/w PT100 relay and alarm contacts (DPDT)	768
B20	No longer available	NA
B21	Ground fault alarm indication c/w visual indication and alarm contact (Form C-SPDT)	842
B23	No longer available (see option C17)	NA
B24	No longer available (see option C18)	NA
BX	No longer available (see option Cx)	NA
C1	Extra motor run alarm contact (Form C-SPDT)	73
C4	Period test alarm contact (Form C-SPDT)	73
C6	Low discharge (system) pressure alarm contact (Form C-SPDT)	73
C7	Low ambient room temperature alarm contact (Form C-SPDT)	73
C10	Low water level alarm contact (Form C-SPDT)	73
C11	High motor temperature alarm contact (Form C-SPDT)	73
C12	High vibration c/w visual indication and alarm contact (Form C-SPDT)	73
C13	Ground fault (no longer available) See option B21	-
C14	Pump on demand/automatic start alarm contact (Form C-SPDT)	73
C15	Pump fail to start alarm contact (Form C-SPDT)	73
C16	Control voltage healthy alarm contact (Form C-SPDT)	73
C17	Flow meter loop valve open c/w visual indication and alarm contact (Form C-SPDT)	73
C18	High water level c/w visual indication and alarm contact (Form C-SPDT)	73
C19	Emergency start alarm contact (Form C-SPDT)	73
C20	Manual start alarm contact (Form C-SPDT)	73
C21	Deluge valve start alarm contact (Form C-SPDT)	73
C22	Remote automatic start alarm contact (Form C-SPDT)	73
C23	Remote manual start alarm contact (Form C-SPDT)	73
C24	High pump room temperature alarm contact (Form C-SPDT)	73
C25	Second set of std alarm contacts (Typical for LA and Denver)	220
CX	Other addition alarm contact (Form C-SPDT) (specify function)	73
D1	Low suction pressure transducer for fresh water rated for 0-300 psi with visual indication and alarm contact	294
D1A	Low suction pressure transducer for salt water rated for 0-300 psi with visual indication and alarm contact	391
D5	Pressure transducer and run test solenoid valve for fresh water rated for 0-500 psi (for factory calibration only)	NC
D5D	Pressure transducer and run test solenoid valve for sea water rated for 0-500 psi	RTF
D10	Omit mounting feet (when applicable)	NA
D11	NEMA 4 assembly (standard controller)	685
D12	NEMA 4X assembly SS-304 painted (standard controller)	1,174
D12A	NEMA 4X assembly SS-316 brushed finish (std controller)	RTF
D12B	NEMA 4X assembly SS-304 brushed finish (std controller)	RTF
D12C	NEMA 4X assembly SS-316 painted (std controller)	RTF
D13	High withstand rating 208V to 480V=150ka, 600V=100ka	NA
D13A	High withstand rating 380V to 480V=65ka, 600V=25ka	294
D14	Anti-condensate heater & thermostat (std controller)	313
D14A	Anti-condensate heater & humidistat (std controller)	313
D14B	Anti-condensate heater, thermostat & humidistat (std con)	431

Tornatech Controller Option List Pricing

Option	Description	Std Cont List Price
D15	Tropicalization	391
D18	CE Mark with factory certificate	NC
D19	French Languages (see L options)	NA
D20	Spanish Languages (see L options)	NA
D21	Other Languages (see L options)	NA
D22	NEMA 3R* Assembly (standard controller)	196
D23	NEMA 12* Assembly (standard controller)	220
D26	Modbus RTU provision	2,642
D26A	Modbus TCP/IP provision	INCL.
D27	Motor heater con. (ex single phase power source and heater on/off contact)	88
D27A	Motor heater con. (ex single phase power source and heater on/off contact, specify WATTS)	NA
D28	Customized drawing set (per controller)	1,174
D22	NEMA 3R Assembly* (standard controller)	196
D23	NEMA 12 Assembly* (standard controller)	220
D26	Modbus RTU provision	2,642
D26A	Modbus TCP/IP provision	INCL.
D27	Motor heater con. (ex single phase power source and heater on/off contact)	88
D27A	Motor heater con. (ex single phase power source and heater on/off contact, specify WATTS)	NA
D28	Customized drawing set (per controller)	1,174
D29	NEMA 3 Assembly* (standard controller)	294
D30	IP54 assembly* (standard controller)	294
D31	IP55 assembly* (standard controller)	391
D32	IP65 assembly* (standard controller)	685
D33	IP66 assembly* (standard controller)	RTF
D34	Field programmable i/o board (8 input/5 output)	N/A
D35	Field programmable i/o board (8 input/10 output)	N/A
D36	Redundant pressure transducer for fresh water rated 0-500psi	391
D36A	Redundant pressure transducer for sea water rated 0-500psi	783
D37	Window kit for operator interface	-
D38	Controller rated for 50° C ambient temperature	NA
D39	Controller rated for 55° C ambient temperature	NA
E1	Permanent load shedding contacts	294
E2	Temporary pump motor start period load shedding contacts	538
E3	Temporary and permanent load shedding contacts	832
F2	Anti-condensate heater & thermostat (transfer switch contr)	313
F2A	Anti-condensate heater & humidistat (transfer switch contr)	313
F2B	Anti-condensate heater, thermostat & humidistat (for t/s)	431
F3	NEMA 3R assembly (for transfer switch controller)	196
F4	NEMA 4 assembly (for transfer switch controller)	1,174
F5	NEMA 4X assembly SS-304 painted (transfer switch controller)	1,957
F5A	NEMA 4X assembly SS-316 brushed finish (std controller)	RTF
F5B	NEMA 4X assembly SS-304 brushed finish (std controller)	-
F5C	NEMA 4X assembly SS-316 painted (std controller)	-
F6	High withstand rating 208V to 480V=150ka, 600V=100ka	NA
F6A	High withstand rating 380V to 480V=65ka, 600V=25ka	294
F8	NEMA 12 Assembly* (transfer switch controller)	220
F9	IP54 assembly* (transfer switch controller)	294
F10	IP55 assembly* (transfer switch controller)	391
F11	IP65 assembly* (transfer switch controller)	685
F12	IP66 assembly* (transfer switch controller)	RTF
F13	NEMA 3 Assembly* (transfer switch controller)	294
H1	Export packing for 1 fire pump standard controller	514
H2	Export packing for 1 fire pump transfer switch controller	1,101
APE	Remote Alarm Panel for single electric fire pump	NA
APEE	Remote Alarm Panel for two electric fire pumps	NA
	Mount Controller on base and wire to motor (600 v max)	NA
	Mount Controller with transfer switch and wire to motor (600 volt max)	NA

Eaton
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE
For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor	
		FD30	FD20	FD40	FD70	FD80	FD60	FD90	FD50	
Suggested List										
7.5	200-208	\$6,323	\$3,848	\$6,929	\$7,191	\$9,312	\$11,797	\$11,352	\$7,514	
	220-240	6,323	3,848	6,929	7,191	9,312	11,797	11,352	7,514	
	380-415	6,323	3,727	6,929	7,191	9,615	11,797	11,352	7,514	
	440-480	6,323	3,727	6,929	7,191	9,615	11,797	11,352	7,514	
	550-600	6,323	3,727	6,929	7,191	9,615	11,797	11,352	7,514	
10	200-208	6,323	4,101	6,929	7,191	9,312	11,797	11,352	7,514	
	220-240	6,323	4,101	6,929	7,191	9,312	11,797	11,352	7,514	
	380-415	6,323	3,727	6,929	7,191	9,615	11,797	11,352	7,514	
	440-480	6,323	3,727	6,929	7,191	9,615	11,797	11,352	7,514	
	550-600	6,323	3,727	6,929	7,191	9,615	11,797	11,352	7,514	
15	200-208	6,323	4,101	6,929	7,191	9,312	11,797	11,352	7,514	
	220-240	6,323	4,101	6,929	7,191	9,312	11,797	11,352	7,514	
	380-415	6,323	3,979	6,929	7,191	9,615	11,797	11,352	7,514	
	440-480	6,323	3,979	6,929	7,191	9,615	11,797	11,352	7,514	
	550-600	6,323	3,979	6,929	7,191	9,615	11,797	11,352	7,514	
20	200-208	6,323	4,181	6,929	7,191	9,312	11,797	11,352	7,514	
	220-240	6,323	4,181	6,929	7,191	9,312	11,797	11,352	7,514	
	380-415	6,323	3,979	6,929	7,191	9,615	11,797	11,352	7,514	
	440-480	6,323	3,979	6,929	7,191	9,615	11,797	11,352	7,514	
	550-600	6,323	3,979	6,929	7,191	9,615	11,797	11,352	7,514	
25	200-208	6,323	4,181	6,929	7,191	9,312	11,797	12,463	7,514	
	220-240	6,323	4,181	6,929	7,191	9,312	11,797	12,463	7,514	
	380-415	6,323	4,020	6,929	7,191	9,615	11,797	11,352	7,514	
	440-480	6,323	4,020	6,929	7,191	9,615	11,797	11,352	7,514	
	550-600	6,323	4,020	6,929	7,191	9,615	11,797	11,352	7,514	
30	200-208	6,323	4,181	6,929	7,191	9,716	11,797	12,463	7,514	
	220-240	6,323	4,181	6,929	7,191	9,716	11,797	12,463	7,514	
	380-415	6,323	4,060	6,929	7,191	9,615	11,797	11,352	7,514	
	440-480	6,323	4,060	6,929	7,191	9,615	11,797	11,352	7,514	
	550-600	6,323	4,060	6,929	7,191	9,615	11,797	11,352	7,514	
40	200-208	7,373		8,363	8,757	11,282	13,898	13,574	9,373	
	220-240	7,373		8,363	8,757	11,282	13,898	13,574	9,373	
	380-415	6,323		7,232	7,434	9,858	11,797	11,352	7,595	
	440-480	6,323		6,929	7,191	9,615	11,797	11,352	7,595	
	550-600	6,323		6,929	7,191	9,615	11,797	11,352	7,595	
50	200-208	7,373		8,363	9,231	11,756	13,898	13,726	9,413	
	220-240	7,373		8,363	9,231	11,756	13,898	13,726	9,413	
	380-415	6,323		7,232	7,434	9,858	11,797	13,726	7,636	
	440-480	6,323		7,232	7,434	9,858	11,797	11,352	7,636	
	550-600	6,323		7,232	7,434	9,858	11,797	11,352	7,636	
60	200-208	8,444		9,716	10,585	13,110	16,039	14,483	10,726	
	220-240	8,444		9,716	10,585	13,110	16,039	14,483	10,726	
	380-415	7,373		8,363	8,757	11,181	13,898	13,574	9,433	
	440-480	7,373		8,363	8,757	11,181	13,898	13,574	9,433	
	550-600	7,373		8,363	8,757	11,181	13,898	13,574	9,433	
75	200-208	8,444		9,716	10,585	14,827	16,039	15,796	10,746	
	220-240	8,444		9,716	10,585	14,827	16,039	15,796	10,746	
	380-415	7,373		8,363	8,757	11,181	13,898	13,574	9,454	
	440-480	7,373		8,363	8,757	11,181	13,898	13,574	9,454	
	550-600	7,373		8,363	8,757	11,181	13,898	13,574	9,454	

Eaton
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE
For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		FD30	FD20	FD40	FD70	FD80	FD60	FD90	FD50
Suggested List									
100	200-208	10,201		12,726	13,473	17,715	19,554	18,927	13,534
	220-240	10,201		12,726	13,473	17,715	19,554	18,927	13,534
	380-415	8,444		9,716	10,282	13,716	16,039	13,898	10,969
	440-480	7,373		9,716	10,282	13,716	13,898	13,898	10,484
	550-600	7,373		9,716	10,282	13,716	13,898	13,898	10,484
125	200-208	13,150		16,786	17,816	22,058	25,452	24,684	19,816
	220-240	13,150		16,786	17,816	22,058	25,452	24,684	19,816
	380-415	8,444		9,716	11,373	14,807	16,039	15,594	12,686
	440-480	8,444		9,716	11,373	14,807	16,039	15,594	12,686
	550-600	8,444		9,716	11,373	14,807	16,039	15,594	12,686
150	200-208	13,150		16,786	17,816	22,058	25,452	24,987	20,745
	220-240	13,150		16,786	17,816	22,058	25,452	24,987	20,745
	380-415	8,444		13,433	13,776	17,210	16,039	15,594	15,978
	440-480	8,444		9,716	11,373	14,807	16,039	15,594	13,615
	550-600	8,444		9,716	11,373	14,807	16,039	15,594	13,615
200	200-208	-		19,311	24,604	31,956			
	220-240	13,150		19,311	20,341	24,583	25,452	25,189	21,351
	380-415	13,150		13,433	14,382	17,816	25,452	25,189	22,099
	440-480	10,201		13,433	14,382	17,816	16,039	16,200	15,978
	550-600	8,444		11,676	14,382	17,816	16,039	16,200	14,221
250	200-208	-		21,493	31,603	63,115			
	220-240	-		21,493	24,604	31,956			
	380-415	13,150		16,786	17,816	22,462	25,452	25,189	22,099
	440-480	13,150		16,786	17,816	22,462	25,452	25,189	22,099
	550-600	13,150		16,786	17,816	22,462	25,452	25,189	22,099
300	220-240	-		22,786	28,825	39,329			
	380-415	13,150		16,786	20,947	24,987	25,452	25,452	22,806
	440-480	13,150		16,786	18,422	23,068	25,452	25,452	22,806
	550-600	13,150		16,786	18,422	23,068	25,452	25,452	22,806
	380-415	-		16,786	20,947	25,593			
350	440-480	16,039		16,786	20,947	25,593	31,229	29,936	25,654
	550-600	16,039		16,786	23,977	25,593	31,229	29,936	25,654
	380-415	-		21,493	24,604	31,956			
400	440-480	16,039		19,311	20,947	25,593	31,229	29,936	25,654
	550-600	16,039		19,311	23,977	25,593	31,229	29,936	25,654
	380-415	-		22,786	24,604	31,956			
450	440-480	-		22,786	24,604	31,956			25,654
	550-600	16,039		22,341	23,977	28,341	34,259	29,936	
	380-415	-		22,786	28,401	39,037			
500	440-480	-		22,786	24,604	31,956			25,654
	550-600	16,039		22,341	24,604	31,956	37,289	29,936	
	380-415	-							
600	440-480	-		26,502		39,037			
	550-600	-		26,502		37,703			
	380-415	-							
700	440-480	-							
	550-600	-		29,977		44,309			

Eaton
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		FT30	FT20	FT40	FT70	FT80	FT60	FT90	FT50
Suggested List									
7.5	200-208	\$21,149	\$11,606	\$21,725	\$21,974	\$23,990	\$26,352	\$25,930	\$22,282
	220-240	21,149	11,606	21,725	21,974	23,990	26,352	25,930	22,282
	380-415	21,149	11,491	21,725	21,974	24,278	26,352	25,930	22,282
	440-480	21,149	11,491	21,725	21,974	24,278	26,352	25,930	22,282
	550-600	21,149	11,491	21,725	21,974	24,278	26,352	25,930	22,282
10	200-208	21,149	11,846	21,725	21,974	23,990	26,352	25,930	22,282
	220-240	21,149	11,606	21,725	21,974	23,990	26,352	25,930	22,282
	380-415	21,149	11,491	21,725	21,974	24,278	26,352	25,930	22,282
	440-480	21,149	11,491	21,725	21,974	24,278	26,352	25,930	22,282
	550-600	21,149	11,491	21,725	21,974	24,278	26,352	25,930	22,282
15	200-208	21,149	11,846	21,725	21,974	23,990	26,352	25,930	22,282
	220-240	21,149	11,846	21,725	21,974	23,990	26,352	25,930	22,282
	380-415	21,149	11,731	21,725	21,974	24,278	26,352	25,930	22,282
	440-480	21,149	11,731	21,725	21,974	24,278	26,352	25,930	22,282
	550-600	21,149	11,731	21,725	21,974	24,278	26,352	25,930	22,282
20	200-208	21,149	11,923	21,725	21,974	23,990	26,352	25,930	22,282
	220-240	21,149	11,923	21,725	21,974	23,990	26,352	25,930	22,282
	380-415	21,149	11,731	21,725	21,974	24,278	26,352	25,930	22,282
	440-480	21,149	11,731	21,725	21,974	24,278	26,352	25,930	22,282
	550-600	21,149	11,731	21,725	21,974	24,278	26,352	25,930	22,282
25	200-208	21,149	11,923	21,725	21,974	23,990	26,352	26,986	22,282
	220-240	21,149	11,923	21,725	21,974	23,990	26,352	26,986	22,282
	380-415	21,149	11,770	21,725	21,974	24,278	26,352	25,930	22,282
	440-480	21,149	11,770	21,725	21,974	24,278	26,352	25,930	22,282
	550-600	21,149	11,770	21,725	21,974	24,278	26,352	25,930	22,282
30	200-208	21,360	11,923	21,936	22,186	24,586	26,563	27,197	22,493
	220-240	21,149	11,923	21,725	21,974	24,374	26,352	26,986	22,282
	380-415	21,149	11,808	21,725	21,974	24,278	26,352	25,930	22,282
	440-480	21,149	11,808	21,725	21,974	24,278	26,352	25,930	22,282
	550-600	21,149	11,808	21,725	21,974	24,278	26,352	25,930	22,282
40	200-208	22,358		23,299	23,674	26,074	28,560	28,253	24,259
	220-240	22,358		23,299	23,674	26,074	28,560	28,253	24,259
	380-415	21,149		22,013	22,205	24,509	26,352	25,930	22,358
	440-480	21,149		21,725	21,974	24,278	26,352	25,930	22,358
	550-600	21,149		21,725	21,974	24,278	26,352	25,930	22,358
50	200-208	22,358		23,299	24,125	26,525	28,560	28,397	24,259
	220-240	22,358		23,299	24,125	26,525	28,560	28,397	24,298
	380-415	21,149		22,013	22,205	24,509	26,352	28,186	22,397
	440-480	21,149		22,013	22,205	24,509	26,352	25,930	22,397
	550-600	21,149		22,013	22,205	24,509	26,352	25,930	22,397
60	200-208	24,029		25,238	26,064	28,464	31,248	29,770	26,198
	220-240	24,029		25,238	26,064	28,464	31,248	29,770	26,198
	380-415	22,358		23,299	23,674	25,978	28,560	28,253	24,317
	440-480	22,147		23,088	23,462	25,766	28,349	28,042	24,106
	550-600	22,147		23,088	23,462	25,766	28,349	28,042	24,106
75	200-208	24,394		25,603	26,429	30,461	31,613	31,382	26,582
	220-240	24,029		25,238	26,064	30,096	31,248	31,018	26,218
	380-415	22,358		23,299	23,674	25,978	28,560	28,253	24,336
	440-480	22,358		23,299	23,674	25,978	28,560	28,253	24,336
	550-600	22,147		23,088	23,462	25,766	28,349	28,042	24,125

Eaton
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		FT30	FT20	FT40	FT70	FT80	FT60	FT90	FT50
Suggested List									
100	200-208	27,082		29,482	30,192	34,224	35,971	35,376	30,250
	220-240	26,064		28,464	29,174	33,206	34,954	34,358	29,232
	380-415	24,029		25,238	25,776	29,040	31,248	29,213	26,429
	440-480	22,358		24,586	25,123	28,387	28,560	28,560	25,315
	550-600	22,358		24,586	25,123	28,387	28,560	28,560	25,315
125	200-208	29,885		33,341	34,320	38,352	41,578	40,848	36,221
	220-240	29,885		33,341	34,320	38,352	41,578	40,848	36,221
	380-415	24,029		25,238	26,813	30,077	31,248	29,213	28,061
	440-480	24,029		25,238	26,813	30,077	31,248	30,826	28,061
	550-600	23,376		24,586	26,160	29,424	30,595	30,173	27,408
150	200-208	34,627		38,083	39,062	43,094	46,320	45,878	41,846
	220-240	29,885		33,341	34,320	38,352	41,578	41,136	37,104
	380-415	24,394		29,136	29,462	32,726	31,613	30,826	31,555
	440-480	24,029		25,238	26,813	30,077	31,248	30,826	28,944
	550-600	23,376		24,586	26,160	29,424	30,595	30,173	28,291
200	200-208			50,410	51,734	55,421			
	220-240	34,627		40,483	41,462	45,494	46,320	46,070	42,422
	380-415	29,885		30,154	31,056	34,320	41,578	31,190	38,390
	440-480	26,064		29,136	30,038	33,302	31,613	31,766	31,555
	550-600	24,029		27,101	29,674	32,938	31,248	31,402	29,520
250	200-208			56,141	67,824	67,824			
	220-240			52,483	51,734	57,744			
	380-415	34,627		38,083	39,062	43,478	46,320	46,070	43,133
	440-480	29,885		33,341	34,320	38,736	41,578	41,328	38,390
	550-600	28,867		32,323	33,302	37,718	40,560	40,310	37,373
300	220-240			57,840	61,517	69,946			
	380-415	34,627		38,083	42,038	45,878	46,320	46,320	43,805
	440-480	29,885		33,341	34,896	39,312	41,578	41,578	39,062
	550-600	29,885		33,341	34,896	39,312	41,578	41,578	39,062
	380-415			39,754	42,038	48,125			
350	440-480	37,373		38,083	42,038	46,454	51,811	50,582	46,512
	550-600	32,630		33,341	37,296	41,712	47,069	45,840	41,770
	380-415			50,890	53,818	59,664			
400	440-480	37,373		40,483	42,038	46,454	51,811	50,582	46,512
	550-600	32,630		35,741	37,296	41,712	47,069	45,840	41,770
	380-415			65,232	53,818	59,664			
450	440-480			53,712	53,818	59,664			
	550-600	32,630		41,923	44,890	49,066	49,949	45,840	41,770
	380-415			75,206	67,142	71,299			
500	440-480			53,712	53,818	59,664			
	550-600	32,630		45,034	53,818	54,173	52,829	45,840	41,770
	380-415								
600	440-480			65,894	67,142	71,299			
	550-600			61,085	67,142	62,285			
	380-415								
700	440-480								
	550-600			69,226	69,120	70,416			

Hubbell (Metron)

Electric Controllers

50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Solid State	Primary Resistor
		MP300		MP420	MP430	MP435	MP450	MP700	MP400
Suggested List									
15	200-208	6,448		7,066	7,334	9,497	12,030	11,577	7,663
	220-240	6,448		7,066	7,334	9,497	12,030	11,577	7,663
	380-415	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	440-480	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	550-600	6,448		7,066	7,334	9,806	12,030	11,577	7,663
20	200-208	6,448		7,066	7,334	9,497	12,030	11,577	7,663
	220-240	6,448		7,066	7,334	9,497	12,030	11,577	7,663
	380-415	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	440-480	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	550-600	6,448		7,066	7,334	9,806	12,030	11,577	7,663
25	200-208	6,448		7,066	7,334	9,497	12,030	12,710	7,663
	220-240	6,448		7,066	7,334	9,497	12,030	12,710	7,663
	380-415	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	440-480	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	550-600	6,448		7,066	7,334	9,806	12,030	11,577	7,663
30	200-208	7,519		7,066	7,334	9,909	12,030	12,710	7,663
	220-240	7,519		7,066	7,334	9,909	12,030	12,710	7,663
	380-415	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	440-480	6,448		7,066	7,334	9,806	12,030	11,577	7,663
	550-600	6,448		7,066	7,334	9,806	12,030	11,577	7,663
40	200-208	7,519		8,528	8,930	11,505	14,173	13,843	9,558
	220-240	7,519		8,528	8,930	11,505	14,173	13,843	9,558
	380-415	6,448		7,375	7,581	10,053	12,030	11,577	7,746
	440-480	6,448		7,066	7,581	9,806	12,030	11,577	7,746
	550-600	6,448		7,066	7,581	9,806	12,030	11,577	7,746
50	200-208	7,519		8,528	9,414	12,072	14,173	13,998	9,600
	220-240	7,519		8,528	9,414	12,072	14,173	13,998	9,600
	380-415	6,448		7,375	7,581	10,053	12,030	13,843	7,787
	440-480	6,448		7,375	7,581	10,053	12,030	13,843	7,787
	550-600	6,448		7,375	7,581	10,053	12,030	11,577	7,787
60	200-208	8,611		9,909	10,794	13,369	16,356	14,770	10,939
	220-240	8,611		9,909	10,794	13,369	16,356	14,770	10,939
	380-415	7,519		8,528	8,930	11,402	14,173	13,843	9,620
	440-480	7,519		8,528	8,930	11,402	14,173	13,843	9,620
	550-600	7,519		8,528	8,930	11,402	14,173	13,843	9,620
75	200-208	8,611		9,909	10,794	15,120	16,356	16,109	10,939
	220-240	8,611		9,909	10,794	15,120	16,356	16,109	10,939
	380-415	7,519		8,528	8,930	11,402	14,173	13,843	9,620
	440-480	7,519		8,528	8,930	11,402	14,173	13,843	9,620
	550-600	7,519		8,528	8,930	11,402	14,173	13,843	9,620
100	200-208	12,978		12,978	13,740	18,066	19,941	25,204	13,802
	220-240	12,978		12,978	13,740	18,066	19,941	25,204	13,802
	380-415	8,611		9,909	10,485	13,987	16,356	14,173	11,186
	440-480	7,519		9,909	10,485	13,987	14,173	14,173	10,691
	550-600	7,519		9,909	10,485	13,987	14,173	14,173	10,691

Hubbell (Metron)
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE
For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Solid State	Primary Resistor
		MP300		MP420	MP430	MP435	MP450	MP700	MP400
Suggested List									
125	200-208	13,411		17,119	18,169	22,495	25,956	25,482	20,209
	220-240	13,411		17,119	18,169	22,495	25,956	25,482	20,209
	380-415	8,611		9,909	11,598	15,100	16,356	15,903	12,937
	440-480	8,611		9,909	11,598	15,100	16,356	15,903	12,937
	550-600	8,611		9,909	11,598	15,100	16,356	15,903	12,937
150	200-208	13,411		17,119	18,169	22,495	25,956	29,808	21,156
	220-240	13,411		17,119	18,169	22,495	25,956	29,808	21,156
	380-415	8,611		13,699	14,049	17,551	16,356	15,903	16,295
	440-480	8,611		9,909	11,598	15,100	16,356	15,903	13,884
	550-600	8,611		9,909	11,598	15,100	16,356	15,903	13,884
200	200-208			19,694	21,115	25,070	25,956	RTF	21,774
	220-240			19,694	20,744	25,070	25,956	RTF	21,774
	380-415	13,411		13,699	14,667	18,169	25,956	25,688	22,536
	440-480	12,463		13,699	14,667	18,169	16,356	25,688	16,295
	550-600	8,611		11,907	14,667	18,169	16,356	25,688	14,502
250	200-208			21,918	21,115	27,563	29,540	RTF	24,040
	220-240			21,918	23,350	27,563	29,540	RTF	24,040
	380-415	13,411		17,119	18,169	22,907	25,956	RTF	22,536
	440-480	13,411		17,119	18,169	22,907	25,956	RTF	21,815
	550-600	13,411		17,119	18,169	22,907	25,956	RTF	22,536
300	220-240			24,885	25,091	29,726	32,136	RTF	26,327
	380-415	13,411		24,885	25,091	29,540	25,956	RTF	23,257
	440-480	13,411		17,119	21,362	25,482	25,956	RTF	23,257
	550-600	13,411		17,119	18,787	23,525	25,956	RTF	23,257
	380-415	16,356		17,119	21,414	26,100	29,540	RTF	26,636
350	440-480	16,356		17,119	21,362	26,100	25,956	RTF	26,162
	550-600	16,356		17,119	21,362	26,100	31,848	RTF	26,162
	380-415			20,209	23,350	29,623			
400	440-480	17,386		19,694	21,362	26,100	31,848	RTF	26,162
	550-600	16,356		19,694	21,362	26,100	31,848	RTF	26,162
	380-415								
450	440-480								
	550-600								
	380-415								
500	380-415			23,237	25,410	32,816			
	440-480			23,237	25,410	29,623	36,833	RTF	29,623
	550-600								
600	380-415			26,636	27,995	36,606			
	440-480			26,368	28,037	32,816	41,406	RTF	34,587
	550-600								
700	380-415								
	440-480			29,994	32,177	37,152			
	550-600								

Hubbell (Metron)
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Solid State	Primary Resistor
		MP300		MP420	MP430	MP435	MP450	MP700	MP400
Suggested List									
15	200-208	22,030		22,630	22,890	24,990	27,450	27,010	23,210
	220-240	22,030		22,630	22,890	24,990	27,450	27,010	23,210
	380-415	22,030		22,630	22,890	25,290	27,450	27,010	23,210
	440-480	22,030		22,630	22,890	25,290	27,450	27,010	23,210
20	200-208	22,030		22,630	22,890	24,990	27,450	27,010	23,210
	220-240	22,030		22,630	22,890	24,990	27,450	27,010	23,210
	380-415	22,030		22,630	22,890	25,290	27,450	27,010	23,210
	440-480	22,030		22,630	22,890	25,290	27,450	27,010	23,210
25	200-208	22,030		22,630	22,890	24,990	27,450	28,110	23,210
	220-240	22,030		22,630	22,890	24,990	27,450	28,110	23,210
	380-415	22,030		22,630	22,890	25,290	27,450	27,010	23,210
	440-480	22,030		22,630	22,890	25,290	27,450	27,010	23,210
30	200-208	22,250		22,850	23,110	25,610	27,670	28,330	23,430
	220-240	22,030		22,630	22,890	25,390	27,450	28,110	23,210
	380-415	22,030		22,630	22,890	25,290	27,450	27,010	23,210
	440-480	22,030		22,630	22,890	25,290	27,450	27,010	23,210
40	200-208	23,290		24,950	24,660	27,160	29,750	29,430	25,270
	220-240	23,290		24,270	24,660	27,160	29,750	29,430	25,270
	380-415	22,030		22,930	23,130	25,530	27,450	27,010	23,290
	440-480	22,030		22,930	23,130	25,290	27,450	27,010	23,290
50	200-208	23,970		24,950	25,810	28,390	30,430	30,260	25,990
	220-240	23,290		24,270	25,130	27,710	29,750	29,580	25,310
	380-415	22,030		22,930	23,130	25,530	27,450	29,360	23,330
	440-480	22,030		22,930	23,130	25,530	27,450	27,010	23,330
60	200-208	25,030		26,290	27,150	29,650	32,550	31,010	27,290
	220-240	25,030		26,290	27,150	29,650	32,550	31,010	27,290
	380-415	23,290		24,270	24,660	27,060	29,750	29,430	25,330
	440-480	23,070		24,050	24,440	26,840	29,530	29,210	25,110
75	200-208	25,410		26,670	27,530	31,730	32,930	32,690	27,690
	220-240	25,030		26,290	27,150	31,350	32,550	32,310	27,310
	380-415	23,290		24,270	24,660	27,060	29,750	29,430	25,350
	440-480	23,290		24,270	24,660	27,060	29,750	29,430	25,350
100	200-208	28,200		30,700	31,440	35,640	37,460	36,840	31,500
	220-240	28,200		30,700	31,440	35,640	37,460	36,840	31,500
	380-415	25,030		26,290	26,850	30,250	32,550	30,430	29,230
	440-480	23,290		25,610	26,170	29,570	29,750	29,750	26,370

Hubbell (Metron)
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Solid State	Primary Resistor
		MP300		MP420	MP430	MP435	MP450	MP700	MP400
Suggested List									
125	200-208	37,810		41,410	42,430	46,630	49,990	49,530	44,410
	220-240	31,120		34,720	35,740	39,940	43,300	49,230	37,720
	380-415	25,030		26,290	27,930	31,330	32,550	32,110	25,600
	440-480	25,030		25,610	27,930	31,330	32,550	32,110	29,230
150	200-208	37,810		41,410	42,430	46,630	49,990	58,330	45,330
	220-240	37,810		41,410	42,430	46,630	49,990	58,330	45,330
	380-415	26,460		31,400	31,740	35,140	33,980	33,540	33,920
	440-480	25,030		26,290	27,930	31,330	32,550	33,540	30,150
200	200-208	46,410		52,510	53,890	57,730	58,590		54,530
	220-240	37,810		43,910	44,930	49,130	49,990	RTF	45,930
	380-415	31,120		31,400	32,340	35,740	43,300	RTF	39,980
	440-480	28,200		26,290	32,340	35,740	33,980	3,620	33,920
250	200-208	49,750		54,670	53,890	60,150	62,070	3,620	56,730
	220-240	49,750		54,670	56,060	60,150	62,070		56,730
	380-415	37,810		41,410	42,430	47,030	49,990	RTF	46,670
	440-480	31,120		34,720	35,740	40,340	4,300	RTF	39,980
300	220-240	65,415		69,555	69,755	74,075	76,595	RTF	70,955
	380-415	37,810		69,555	69,755	49,530	49,990	RTF	47,370
	440-480	37,810		41,410	43,030	47,630	49,990		47,370
350	380-415	49,270		50,010	54,180	58,730	62,070	RTF	59,250
	440-480	40,670		41,410	45,530	50,130	55,710	RTF	50,190
400	380-415			53,010	56,060	62,150		RTF	
	440-480	40,670		43,910	45,530	50,130	55,710		50,190
450	380-415								
	440-480								
500	380-415			67,955	70,065	77,255			
	440-480	52,690		55,950	58,060	62,150	69,150		62,150
600	380-415			76,215	77,535	85,895		RTF	
	440-480	66,755		70,995	72,615	77,255	85,595		78,975
700	380-415							RTF	
	440-480			74,515	76,635	81,465			

**LIST PRICE SHEET
CONTROLLER COMPONENT
50HZ and 60HZ ELECTRIC MOTOR DRIVE**

For use with: Horizontal and Vertical Split-Case Fire Pumps

Hubbell (Metron) Electric Controller Option List Pricing

Price of controller includes the following local visual LED indications: Power On, Phase Reversal, System Fault, and Test Operation. Standard Default Volt Free (Dry) Contacts include: Power Available, Phase Reversal, Pump Running, and Controller not in Auto. In addition to the above LED indications a maximum of 12 user specified alarm conditions can be displayed on the LCD of the Operator Interface (OID). A maximum of 9 additional volt free (dry) contacts can be added. Below is a list of possible alarm contacts. RTF for alarm conditions not listed.

Description	Alarm Displayed	Dry Contacts	Qty of Contacts Rec
Low Pump Room Temperature	{ }	{ }	{ }
Reservoir Low	{ }	{ }	{ }
Reservoir Empty	{ }	{ }	{ }
Reservoir High	{ }	{ }	{ }
Flow Meter On	{ }	{ }	{ }
Relief Valve Open	{ }	{ }	{ }
Gas Detection	{ }	{ }	{ }
Low Suction Pressure	{ }	{ }	{ }
Low Firewater Pressure	{ }	{ }	{ }
Low Purge Pressure	{ }	{ }	{ }
High Gear Oil Temperature	{ }	{ }	{ }
Low Gear Oil Temperature	{ }	{ }	{ }
High Vibration	{ }	{ }	{ }
Emergency Power On	{ }	{ }	{ }
Pump Room Door Open	{ }	{ }	{ }

Maximum # of additional alarms is 12

Maximum number of contacts, including default contacts can not exceed 9.
Each Alarm Condition can have a maximum 3 contacts

Option	Description	Std Cont List Price	Cont w/ TS List Price	Std Cont List Price	Cont w/ TS List Price
H	Space Heater with Thermostat	331	331		
H	Space Heater with Humidistat	331	331	310.4	310.4
				1.067	310.4
W	Omit Legs with 3" Channels	N/C	N/C	N/C	N/C
EXPORT CRATING	Export Crating Suitable for Below Deck	1,032	1,717	967.09	1609.23
PUMP ROOM TEMP	Pump Room Temperature NEMA 2 Rated	43	43	40.74	40.74
PUMP ROOM TEMP	Pump Room Temperature NEMA 4 Rated	166	166	155.2	155.2
LOW SUCTION CUT OFF	Low Suction Cut Off Pressure Switch	517	517		
MODBUS COMMUNICATION	Modbus Communication via RS485	STD	STD	485	485
				STD	STD
NEMA 2	NEMA 2	STD	STD	STD	STD
NEMA 3R	NEMA 3R	388	388	363.75	363.75
NEMA 3R	NEMA 3R (Oversized Controller)	662	1,325	620.8	1241.6
NEMA 4	NEMA 4	1,242	2,484	1164	902.1
NEMA 4	NEMA 4 (Oversized Controller)	2,277	4,554	2134	4268
NEMA 4X PAINTED STEEL	NEMA 4X Painted Steel	1,656	963	1552	902.1
NEMA 4X PAINTED STEEL	NEMA 4X Painted Steel (Oversized Cont)	2,691	5,382	2522	5044
NEMA 4X UNPAINTED 304 SS	NEMA 4X (Unpainted 304 SS)	2,587	8,500	2425	7966.61
NEMA 4X UNPAINTED 304 SS	NEMA 4X (Unpainted 304 SS) Oversized Cont	3,881	8,280	3637.5	7760
NEMA 4X (304 PAINTED SS)	NEMA 4X (304 Painted SS)	RTF	RTF	RTF	RTF
NEMA 4X (UNPAINTED 316 SS)	NEMA 4X (Unpainted 316 SS)	4,657	9,936	4365	9312
NEMA 4X (UNPAINTED 316 SS)	NEMA 4X (Unpainted 316 SS) Oversized Cont	7,116	15,179	6668.75	14226.02
NEMA 4X (316 PAINTED SS)	NEMA 4X (316 Painted SS)	RTF	RTF	RTF	RTF
NEMA 12	NEMA 12	26	869	24.25	814.8
REMOVABLE GLAND PLATE	Removable Gland Plate	259	517	242.5	485
PURGE SYSTEM	Purge System	RTF	RTF	RTF	RTF
PLUMBING	300 PSI For Fresh Water	STD	STD	STD	STD
PLUMBING	600 PSI For Fresh Water	124	124	116.4	116.4
PLUMBING	300 PSI SS For Salt Water/Foam	693	693	649.9	649.9
PLUMBING	600 PSI SS For Salt Water/Foam	818	818	766.3	766.3
RAP-E	Remote Alarm Panel	1,009			
	Mount Controller on base & wire to motor (600 v max)	1,800		946	
	Mount Controller with transfer switch and wire to motor (600 volt max)		2,025	1,800	
					2025

*** Oversized Controllers**
All 200/208 volt controllers 200 HP and Above
All 220/240 volt controllers 250 HP and Above
All 380/415 volt controllers 300 HP and Above
All 440/480 volt controllers 500 HP and Above

Firetrol
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Solid State
		FTA1000	FTA750	FTA1250	FTA1300	FTA1350	FTA1800	FTA1930
Suggested List								
7.5	200-208	\$6,551	\$3,924	\$7,169	\$7,437	\$9,600	\$12,133	\$11,680
	220-240	6,551	3,924	7,169	7,437	9,600	12,133	11,680
	380-415	6,551	3,801	7,169	7,437	9,909	12,133	11,680
	440-480	6,551	3,801	7,169	7,437	9,909	12,133	11,680
	550-600	6,551	3,801	7,169	7,437	9,909	12,133	11,680
10	200-208	6,551	4,182	7,169	7,437	9,600	12,133	11,680
	220-240	6,551	4,182	7,169	7,437	9,600	12,133	11,680
	380-415	6,551	3,801	7,169	7,437	9,909	12,133	11,680
	440-480	6,551	3,801	7,169	7,437	9,909	12,133	11,680
	550-600	6,551	3,801	7,169	7,437	9,909	12,133	11,680
15	200-208	6,551	4,182	7,169	7,437	9,600	12,133	11,680
	220-240	6,551	4,182	7,169	7,437	9,600	12,133	11,680
	380-415	6,551	4,058	7,169	7,437	9,909	12,133	11,680
	440-480	6,551	4,058	7,169	7,437	9,909	12,133	11,680
	550-600	6,551	4,058	7,169	7,437	9,909	12,133	11,680
20	200-208	6,551	4,264	7,169	7,437	9,600	12,133	11,680
	220-240	6,551	4,264	7,169	7,437	9,600	12,133	11,680
	380-415	6,551	4,058	7,169	7,437	9,909	12,133	11,680
	440-480	6,551	4,058	7,169	7,437	9,909	12,133	11,680
	550-600	6,551	4,058	7,169	7,437	9,909	12,133	11,680
25	200-208	6,551	4,264	7,169	7,437	9,600	12,133	12,813
	220-240	6,551	4,264	7,169	7,437	9,600	12,133	12,813
	380-415	6,551	4,099	7,169	7,437	9,909	12,133	11,680
	440-480	6,551	4,099	7,169	7,437	9,909	12,133	11,680
	550-600	6,551	4,099	7,169	7,437	9,909	12,133	11,680
30	200-208	6,551	4,264	7,169	7,437	10,012	12,133	12,813
	220-240	6,551	4,264	7,169	7,437	10,012	12,133	12,813
	380-415	6,551	4,141	7,169	7,437	9,909	12,133	11,680
	440-480	6,551	4,141	7,169	7,437	9,909	12,133	11,680
	550-600	6,551	4,141	7,169	7,437	9,909	12,133	11,680
40	200-208	7,622		8,631	9,033	11,608	14,276	13,946
	220-240	7,622		8,631	9,033	11,608	14,276	13,946
	380-415	6,551		7,478	7,684	10,156	12,133	11,680
	440-480	6,551		7,169	7,437	9,909	12,133	11,680
	550-600	6,551		7,169	7,437	9,909	12,133	11,680
50	200-208	7,622		8,631	9,517	12,092	14,276	14,101
	220-240	7,622		8,631	9,517	12,092	14,276	14,101
	380-415	6,551		7,478	7,684	10,156	12,133	14,101
	440-480	6,551		7,478	7,684	10,156	12,133	11,680
	550-600	6,551		7,478	7,684	10,156	12,133	11,680
60	200-208	8,714		10,012	10,897	13,472	16,459	14,873
	220-240	8,714		10,012	10,897	13,472	16,459	14,873
	380-415	7,622		8,631	9,033	11,505	14,276	13,946
	440-480	7,622		8,631	9,033	11,505	14,276	13,946
	550-600	7,622		8,631	9,033	11,505	14,276	13,946
75	200-208	8,714		10,012	10,897	15,223	16,459	16,212
	220-240	8,714		10,012	10,897	15,223	16,459	16,212
	380-415	7,622		8,631	9,033	11,505	14,276	13,946
	440-480	7,622		8,631	9,033	11,505	14,276	13,946
	550-600	7,622		8,631	9,033	11,505	14,276	13,946

Firetrol
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Solid State
		FTA1000	FTA750	FTA1250	FTA1300	FTA1350	FTA1800	FTA1930
Suggested List								
100	200-208	10,506		13,081	13,843	18,169	20,044	19,405
	220-240	10,506		13,081	13,843	18,169	20,044	19,405
	380-415	8,714		10,012	10,588	14,090	16,459	14,276
	440-480	7,622		10,012	10,588	14,090	14,276	14,276
	550-600	7,622		10,012	10,588	14,090	14,276	14,276
125	200-208	13,514		17,222	18,272	22,598	26,059	25,585
	220-240	13,514		17,222	18,272	22,598	26,059	25,585
	380-415	8,714		10,012	13,761	15,203	16,459	16,006
	440-480	8,714		10,012	11,701	15,203	16,459	16,006
	550-600	8,714		10,012	11,701	15,203	16,459	16,006
150	200-208	13,514		17,222	18,272	22,598	26,059	25,585
	220-240	13,514		17,222	18,272	22,598	26,059	25,585
	380-415	8,714		13,802	14,152	17,654	16,459	16,006
	440-480	8,714		10,012	11,701	15,203	16,459	16,006
	550-600	8,714		10,012	11,701	15,203	16,459	16,006
200	200-208	24,699		30,838	30,637	32,589	34,680	35,988
	220-240	13,926		19,797	21,259	25,173	26,059	25,791
	380-415	13,926		13,802	15,182	18,684	26,059	25,791
	440-480	10,918		13,802	14,770	18,272	16,459	16,624
	550-600	9,126		12,010	14,770	18,272	16,459	16,624
250	200-208	29,571		31,467	32,394	39,604	56,351	54,065
	220-240	24,905		30,838	31,152	33,104	34,783	35,988
	380-415	13,926		17,222	18,684	23,422	26,059	25,791
	440-480	13,514		17,222	18,272	23,010	26,059	25,791
	550-600	13,514		17,222	18,272	24,040	26,059	25,791
300	220-240	32,394		35,432	36,823	54,528	65,817	
	380-415	13,926		17,222	21,877	25,997	26,059	26,471
	440-480	13,926		17,222	19,302	24,040	26,059	26,059
	550-600	13,514		17,222	18,890	23,628	26,059	30,632
350	380-415	24,390		19,797	30,637	32,692	37,976	30,632
	440-480	16,871		17,222	21,877	26,203	31,951	30,632
	550-600	16,356		17,222	21,465	26,203	919,551	30,632
400	380-415	24,390		30,941	31,152	33,104	38,913	54,065
	440-480	16,871		19,797	21,877	26,615	31,951	30,632
	550-600	16,356		19,694	21,877	26,615	91,951	30,632
450	380-415	24,390		30,941	31,152	35,782	49,337	69,722
	440-480	24,390		29,437	30,637	33,104	36,936	48,080
	550-600	16,356		30,962	24,679	28,346	35,041	30,632
500	380-415	33,346		36,720	28,068	58,144	70,740	
	440-480	24,390		29,952	30,637	35,782	36,936	49,646
	550-600	16,356		21,074	24,679	32,692	35,041	30,632
600	380-415							
	440-480	32,394		35,432	36,823	54,528	65,817	69,722
	550-600			30,838				
700	380-415							
	440-480							
	550-600							

Firetrol
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		FTA1000	FTA750	FTA1250	FTA1300	FTA1350	FTA1800	FTA1930	FTA1500
Suggested List									
7.5	200-208	\$21,909	\$11,969	\$22,503	\$22,760	\$24,839	\$27,275	\$26,839	\$23,077
	220-240	21,909	11,969	22,503	22,760	24,839	27,275	26,839	23,077
	380-415	21,909	11,850	22,503	22,760	25,136	27,275	26,839	23,077
	440-480	21,909	11,850	22,503	22,760	25,136	27,275	26,839	23,077
	550-600	21,909	11,850	22,503	22,760	25,136	27,275	26,839	23,077
10	200-208	21,909	12,217	22,503	22,760	24,839	27,275	26,839	23,077
	220-240	21,909	12,217	22,503	22,760	24,839	27,275	26,839	23,077
	380-415	21,909	11,850	22,503	22,760	25,136	27,275	26,839	23,077
	440-480	21,909	11,850	22,503	22,760	25,136	27,275	26,839	23,077
	550-600	21,909	11,850	22,503	22,760	25,136	27,275	26,839	23,077
15	200-208	21,909	12,217	22,503	22,760	24,839	27,275	26,839	23,077
	220-240	21,909	12,217	22,503	22,760	24,839	27,275	26,839	23,077
	380-415	21,909	12,098	22,503	22,760	25,136	27,275	26,839	23,077
	440-480	21,909	12,098	22,503	22,760	25,136	27,275	26,839	23,077
	550-600	21,909	12,098	22,503	22,760	25,136	27,275	26,839	23,077
20	200-208	21,909	12,296	22,503	22,760	24,839	27,275	26,839	23,077
	220-240	21,909	12,296	22,503	22,760	24,839	27,275	26,839	23,077
	380-415	21,909	12,098	22,503	22,760	25,136	27,275	26,839	23,077
	440-480	21,909	12,098	22,503	22,760	25,136	27,275	26,839	23,077
	550-600	21,909	12,098	22,503	22,760	25,136	27,275	26,839	23,077
25	200-208	21,909	12,296	22,503	22,760	24,839	27,275	27,928	23,077
	220-240	21,909	12,296	22,503	22,760	24,839	27,275	27,928	23,077
	380-415	21,909	12,137	22,503	22,760	25,136	27,275	26,839	23,077
	440-480	21,909	12,137	22,503	22,760	25,136	27,275	26,839	23,077
	550-600	21,909	12,137	22,503	22,760	25,136	27,275	26,839	23,077
30	200-208	22,127	12,514	22,721	22,978	25,453	27,492	28,146	23,295
	220-240	21,909	12,514	22,503	22,760	25,235	27,275	27,928	23,077
	380-415	21,909	12,177	22,503	22,760	25,136	27,275	26,839	23,077
	440-480	21,909	12,177	22,503	22,760	25,136	27,275	26,839	23,077
	550-600	21,909	12,177	22,503	22,760	25,136	27,275	26,839	23,077
40	200-208	23,117		24,126	24,512	26,987	29,552	29,235	25,116
	220-240	23,156		24,126	24,512	26,987	29,552	29,235	25,116
	380-415	21,909		22,800	22,998	25,374	27,275	26,839	23,156
	440-480	21,909		22,503	22,760	25,136	27,275	26,839	23,156
	550-600	21,909		22,503	22,760	25,136	27,275	26,839	23,156
50	200-208	23,829		24,800	25,651	28,126	30,225	30,056	25,829
	220-240	23,156		24,126	24,978	27,453	29,552	29,383	25,156
	380-415	21,909		22,800	22,998	25,374	27,275	26,839	23,196
	440-480	21,909		22,800	22,998	25,374	27,275	26,839	23,196
	550-600	21,909		22,800	22,998	25,374	27,275	26,839	23,196
60	200-208	24,879		26,126	26,978	29,453	32,324	30,799	27,116
	220-240	24,879		26,126	26,978	29,453	32,324	30,799	27,116
	380-415	23,156		24,126	24,512	26,888	29,552	29,235	25,176
	440-480	23,156		23,909	24,295	26,671	29,334	29,017	24,958
	550-600	13,038		23,909	24,295	26,671	29,334	29,017	24,958
75	200-208	25,255		26,502	27,354	31,512	32,700	32,462	27,512
	220-240	24,879		26,126	26,978	31,136	32,324	32,086	27,136
	380-415	23,156		24,126	24,512	26,888	29,552	29,235	25,196
	440-480	23,156		24,126	24,512	26,888	29,552	29,235	25,196
	550-600	22,938		23,909	24,295	26,671	29,334	29,017	24,978

Firetrol
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		FTA1000	FTA750	FTA1250	FTA1300	FTA1350	FTA1800	FTA1930	FTA1500
Suggested List									
100	200-208	27,185		30,492	31,225	35,383	37,184	36,571	31,284
	220-240	27,185		29,660	31,225	34,927	26,829	35,739	31,284
	380-415	24,879		26,126	26,681	30,047	32,324	30,225	27,354
	440-480	23,156		25,453	26,007	29,373	29,552	29,552	26,205
	550-600	23,156		25,453	26,007	29,373	29,552	29,552	26,205
125	200-208	31,502		41,095	42,105	40,234	43,560	42,808	44,065
	220-240	30,908		34,472	35,482	39,640	42,966	42,511	37,442
	380-415	25,255		26,502	28,126	31,492	32,700	31,888	29,413
	440-480	24,879		26,126	27,750	31,116	32,324	31,888	29,037
	550-600	24,206		25,453	27,077	30,443	31,650	31,215	28,364
150	200-208	36,402		39,956	42,105	46,263	48,451	47,995	44,976
	220-240	31,502		35,066	36,076	46,263	43,560	43,105	44,976
	380-415	26,294		30,730	31,066	34,432	33,284	32,472	33,680
	440-480	24,879		26,126	27,750	31,116	32,324	31,888	29,948
	550-600	24,879		26,126	27,750	31,116	32,324	31,888	29,948
200	200-208	46,639		53,995	54,044	57,846	58,697	66,053	58,489
	220-240	36,402		43,570	45,174	48,738	50,183	49,926	47,669
	380-415	32,215		31,779	36,076	36,076	42,966	33,442	39,679
	440-480	28,611		31,185	35,482	34,066	33,739	33,442	32,056
	550-600	25,710		28,047	35,482	34,066	32,324	32,482	30,542
250	200-208	61,479		63,301	64,192	71,122	87,219	85,021	74,785
	220-240	49,946		54,688	54,044	60,242	62,142	83,982	73,943
	380-415	36,402		35,066	36,076	40,630	48,451	48,193	48,480
	440-480	30,908		34,472	35,482	40,036	42,966	42,709	39,679
	550-600	30,908		34,016	35,482	39,580	42,966	42,253	39,679
300	220-240	64,192		67,112	68,449	85,467	96,317		81,269
	380-415	36,402		39,956	44,035	47,995	48,451	48,451	51,480
	440-480	31,502		35,066	36,670	41,224	43,560	43,560	49,233
	550-600	30,908		34,472	36,076	40,630	42,966	42,966	40,372
	380-415	56,499		53,173	45,768	58,836	62,142	64,182	67,290
350	440-480	39,234		39,956	44,035	48,589	54,113	54,579	51,490
	550-600			37,541	38,551	43,105			
	380-415	61,479		63,301	56,192	62,222	69,152	85,021	74,785
400	440-480	42,738		44,164	44,035	48,589	54,113	66,281	55,529
	550-600			37,541	44,035	43,699			
	380-415	69,894		73,211	56,192	77,161	85,427	103,891	87,368
450	440-480	50,450		56,084	56,192	60,410	64,513	66,281	58,846
	550-600			43,916	56,192	51,282			
	380-415	71,206		74,448	76,032	9,504	107,148		90,347
500	440-480	53,123		62,697	56,192	70,359	85,427	71,339	73,943
	550-600			56,084	56,192	55,866			
	380-415			73,211					
600	440-480	70,290		62,697	74,547	91,565	102,416	106,169	87,368
	550-600								
	380-415								
700	440-480								
	550-600								
	380-415								

LIST PRICE SHEET
CONTROLLER COMPONENT
50HZ and 60HZ ELECTRIC MOTOR DRIVE
For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

Firetrol Electric Controller Option List Pricing

Option	Description	Std Cont List Price	Cont with Trsfr Swi
-T	NEMA Type 3R (IEC IP22), Painted Steel	394	789
-E	NEMA Type 4 (IEC IP66), Painted	1,245	2,491
-F	NEMA Type 4X (IEC IP66), #304 SS		
	FTA 1000, 1250, 1300 Less than 250 HP	2,906	6,538
	FTA 1000, 1250, 1300 250 HP or more		10,793
	FTA 1350, 1500, 1800, 1930 < 250 HP	2,906	8,614
	FTA 1350, 1500, 1800, 1930 = > 250 HP	10,171	14,841
-FXP	NEMA Type 4X (IEC IP66), #304 SS Painted Finish	RTF	RTF
-FD	NEMA Type 4X (IEC IP66) #316 SS Brushed Finish	RTF	RTF
-FDB	NEMA Type 4X (IEC IP66) 12 gauge #316 SS Brushed	RTF	RTF
-FDP	NEMA Type 4X (IEC IP66) #316 SS Painted Finish	RTF	RTF
-G	NEMA Type 12 (IEC IP54) Painted Steel	N/C	N/C
-N	Intermediate withstand rating 150,000 Amps RMS	1,889	3,155
-P	High withstand rating 200,000 Amps RMS Sys	3,113	6,227
-H	120 Volt Space Heater	208	415
-J	120 Volt Space Heater with Thermostat	333	664
-K	120 Volt Space Heater with Humidistat	333	664
-L	240 Volt Space Heater	208	415
-M	240 Volt Space Heater with Thermostat	333	664
-N	240 Volt Space Heater with Humidistat	333	664
-B	0-600 psi Pressure Transducer for Fresh Water Ser	NC	NC
-C	0-300 psi Pressure Transducer for Cu Corrosive Ser	623	623
-D	0-600 psi Pressure Transducer for Cu Corrosive Ser	623	623
FTA950	Generator/Utility emergency supply	RTF	RTF
FTA951	Bypass Isolation Switch for Gen/Utility Emer Sup	RTF	RTF
-AC	Extra contacts for remote ind, pump operating	104	104
-AF	Audible and Visible low pump room temp alarm	104	104
-AG	Audible and Visible reservoir low alarm	104	104
-AH	Audible and Visible low suction pressure alarm	104	104
-AM	Contacts for remote ind., pump fail to start	104	104
-AV	Contacts for remote indication, low pump room temperature (requires option -AF)	104	104
-AW	Contacts for remote indication, reservoir low (requires option -AG)	104	104
-AY	Contacts for remote indication, low suction pressure (requires option -AH)	104	104
-AZ	Low pump room temp switch, mounted, & wired	270	270
-BW	Extra contacts for remote indication, phase failure, phase reversal	208	208
-BY	Contacts for remote indication, pump overload	104	104
-COM	Low suction pressure alarm, (includes selectable auto/manual reset, audible, visible and remote alarms, initiating	156	156
-CTS	Built-in low suction pressure alarm panel (Includes selectable auto/manual reset, audible, visible and remote alarms and wired and mounted pressure switch.)	497	415
FTA-200-A	Remote Alarm Panel	778	
	Mount Controller on base and wire to motor (600 v max)	1,800	
	Mount Controller with transfer switch and wire to motor (600 volt max)		2,025

Firetrol Electric Controller Option List Pricing

Option	Description	Std Cont List Price	Cont with Trsfr Swi
-EG	Audible and Visible relief valve discharge alarm	N/C	N/C
-EH	Contracts for remote indication, relief valve discharge (requires option -EG)	104	104
-EJ	Audible and visible flow meter on alarm	104	104
-EK	Contacts for remote indication, flow meter on (requires option -EJ)	104	104
-KH	Contacts for remote indication, common ouput for any alarm	104	104
-JR	Visible jockey pump running indication	104	104
-JT	Audible and visible jockey pump trouble indication	104	104
-P	Built in alarm system (includes visible supervisory voltage normal indication and audible pump operating, phase failure and phase reversal ind	363	363
-PE	Contacts for remote indication, low system pressure (Pump on Demand)	104	104
-PT	Built in alarm system, 220 VAC supervisor power (includes visible supervisory voltage normal indication and audible pump operating, phase failure and phase reversal indication	530	530
-ED	Load shed circuits	415	415
-EL	Series pumping, high zone controller	419	419
-EM	Series pumping, mid zone controller	465	465
-EN	Series pumping, low zone controller	46	46
-FZX	400 VAC Operation (Controller labeled for operation at 380-400 VAC -Use with voltage code FZ)	N/C	N/C
-IEC	CE Marking with externally mounted wet parts	RTF	RTF
-IECI	Ce Marking (internal wet parts)	N/C	N/C
-OSP	OSHPD Seismic Certification (CA) Req. Option SEI	623	623
-PY	Motor space heater output contacts	104	104
-S	Tropicalization	208	208
-SEI	Seismic Certification (in accordance with IBC) (Note: Not available on model FTA 1500)	415	415
-USBX	External USB port	156	156
-ZPA	Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up)	N/C	N/C
-ZPN	Serial Modbus RTU over Ethernet TCP/IP using 5150 connectivity module	726	726
-ZPM	Serial Modbus RTU over 2-wire or 4-wire RS485	726	726
	Export Crating (wooden crating to conform to IPPC standards (FTA 1000, 1250, 1300)	830	830
	Export Crating (wooden crating to conform to IPPC standards (FTA 1350, 1500, 1800, 1930)	986	986
	Transfer Switch Only Options		
-EC	Extra contracts for remote indication, transfer switch position	NA	311
-ED	Load shed circuitry	NA	415
-TN	Transfer Switch serial communication port	NA	778
-BX	Contacts for remote indication, second source phase failure/phase reversal	NA	363

**Master
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE**

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Reactor
		MCA	MCL	MCP	MCO	MCY	MCT	MCS	MCR
Suggested List									
7.5	200-208	\$6,296	\$6,296	\$6,890	\$7,148	\$9,227	\$11,662	\$11,227	\$8,425
	220-240	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	380-415	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	440-480	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
10	200-208	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	220-240	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	380-415	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	440-480	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
15	200-208	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	220-240	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	380-415	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	440-480	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
20	200-208	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	220-240	6,296	6,296	6,890	7,148	9,227	11,662	11,227	8,425
	380-415	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	440-480	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
25	200-208	6,296	6,296	6,890	7,148	9,227	11,662	12,316	8,425
	220-240	6,296	6,296	6,890	7,148	9,227	11,662	12,316	8,425
	380-415	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	440-480	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
30	200-208	6,296	6,296	6,890	7,148	9,623	11,662	12,316	8,425
	220-240	6,296	6,296	6,890	7,148	9,623	11,662	12,316	8,425
	380-415	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	440-480	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296	6,296	6,890	7,148	9,524	11,662	11,227	8,425
40	200-208	7,326		8,296	8,682	11,157	13,721	13,405	9,870
	220-240	7,326		8,296	8,682	11,157	13,721	13,405	9,870
	380-415	6,296		7,187	7,385	9,761	11,662	11,227	8,643
	440-480	6,296		6,890	7,148	9,524	11,662	11,227	8,425
	550-600	6,296		6,890	7,148	9,524	11,662	11,227	8,425
50	200-208	7,326		8,296	9,148	11,623	13,721	13,553	10,286
	220-240	7,326		8,296	9,148	11,623	13,721	13,553	10,286
	380-415	6,296		7,187	7,385	9,761	11,662	11,227	8,643
	440-480	6,296		7,187	7,385	9,761	11,662	11,227	8,643
	550-600	6,296		7,187	7,385	9,761	11,662	11,227	8,643
60	200-208	8,375		9,623	10,474	12,949	15,820	14,296	11,464
	220-240	8,375		9,623	10,474	12,949	15,820	14,296	11,464
	380-415	7,326		8,296	8,682	11,058	13,721	13,405	9,781
	440-480	7,326		8,296	8,682	11,058	13,721	13,405	9,791
	550-600	7,326		8,296	8,682	11,058	13,721	13,405	9,791
75	200-208	8,375		9,623	10,474	14,632	15,820	15,583	12,949
	220-240	8,375		9,623	10,474	14,632	15,820	15,583	12,949
	380-415	7,326		8,296	8,682	11,058	13,721	13,405	9,781
	440-480	7,326		8,296	8,682	11,058	13,721	13,405	9,791
	550-600	7,326		8,296	8,682	11,058	13,721	13,405	9,791
100	200-208	10,098		12,573	13,306	17,464	19,265	18,652	15,701
	220-240	10,098		12,573	13,306	17,464	19,265	18,652	15,701
	380-415	8,375		9,623	10,177	13,543	15,820	13,721	11,979
	440-480	7,326		9,623	10,177	13,543	13,721	13,721	11,979
	550-600	7,326		9,623	10,177	13,543	13,721	13,721	11,979

**Master
Electric Controllers
50HZ and 60HZ ELECTRIC MOTOR DRIVE**

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Reactor
		MCA	MCL	MCP	MCO	MCY	MCT	MCS	MCR
Suggested List									
125	200-208	12,989		16,553	17,563	21,721	25,047	24,592	20,196
	220-240	12,989		16,553	17,563	21,721	25,047	24,592	20,196
	380-415	8,375		9,623	11,246	14,612	15,820	15,385	12,929
	440-480	8,375		9,623	11,246	14,612	15,820	15,385	12,929
	550-600	8,375		9,623	11,246	14,612	15,820	15,385	12,929
150	200-208	12,989		16,553	17,563	21,721	25,047	24,592	20,434
	220-240	12,989		16,553	17,563	21,721	25,047	24,592	20,434
	380-415	8,375		13,266	13,603	16,969	15,820	15,385	15,761
	440-480	8,375		9,623	11,246	14,612	15,820	15,385	12,929
	550-600	8,375		9,623	11,246	14,612	15,820	15,385	12,929
200	200-208								
	220-240	12,989		19,028	20,869	24,196	25,047	24,790	22,572
	380-415	12,989		13,266	14,197	17,563	25,047	24,790	17,276
	440-480	10,098		13,266	14,197	17,563	15,820	15,979	15,543
	550-600	8,375		11,543	14,197	17,563	15,820	15,979	15,543
250	200-208								
	220-240								
	380-415	12,989		16,553	17,563	22,117	25,047	24,790	21,760
	440-480	12,989		16,553	17,563	22,117	25,047	24,790	21,760
	550-600	12,989		16,553	17,563	22,117	25,047	24,790	21,760
300	220-240								
	380-415	12,989		16,553	20,632	24,592	25,047	25,047	24,651
	440-480	12,989		16,553	18,157	22,711	25,047	25,047	22,453
	550-600	12,989		16,553	18,157	22,711	25,047	25,047	22,453
350	380-415								
	440-480	15,820		16,553	20,632	25,186	30,710	29,443	25,245
	550-600	15,820		16,553	20,632	25,186	30,710	29,443	25,245
400	380-415								
	440-480	15,820		16,553	20,632	25,186	30,710	29,443	25,245
	550-600	15,820		16,553	20,632	25,186	30,710	29,443	25,245
450	380-415								
	440-480								
	550-600								
500	380-415								
	440-480								
	550-600								
600	380-415								
	440-480								
	550-600								
700	380-415								
	440-480								
	550-600								

**Master
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE**

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		MCAT	MCLT	MCPT	MCOT	MCYT	MCTT	MCST	MCRT
Suggested List									
7.5	200-208	\$20,360	\$20,360	\$20,912	\$21,151	\$23,083	\$25,346	\$24,941	\$22,338
	220-240	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	380-415	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	440-480	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
10	200-208	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	220-240	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	380-415	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	440-480	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
15	200-208	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	220-240	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	380-415	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	440-480	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
20	200-208	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	220-240	20,360	20,360	20,912	21,151	23,083	25,346	24,941	22,338
	380-415	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	440-480	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
25	200-208	20,360	20,360	20,912	21,151	23,083	25,346	25,953	22,338
	220-240	20,360	20,360	20,912	21,151	23,083	25,346	25,953	22,338
	380-415	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	440-480	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
30	200-208	20,562	20,562	21,114	21,353	23,653	25,548	26,156	22,540
	220-240	20,360	20,360	20,912	21,151	23,451	25,346	25,953	22,338
	380-415	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	440-480	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360	20,360	20,912	21,151	23,359	25,346	24,941	22,338
40	200-208	21,519		22,420	22,779	25,079	27,462	27,168	23,883
	220-240	21,519		22,420	22,779	25,079	27,462	27,168	23,883
	380-415	20,360		21,188	21,372	23,580	25,346	24,941	22,540
	440-480	20,360		20,912	21,151	23,359	25,346	24,941	22,338
	550-600	20,360		20,912	21,151	23,359	25,346	24,941	22,338
50	200-208	22,144		23,046	23,837	26,137	28,088	27,931	24,895
	220-240	21,519		22,420	23,212	25,512	27,462	27,306	24,270
	380-415	20,360		21,188	21,372	23,580	25,346	24,941	22,540
	440-480	20,360		21,188	21,372	23,580	25,346	24,941	22,540
	550-600	20,360		21,188	21,372	23,580	25,346	24,941	22,540
60	200-208	23,120		24,279	25,070	27,370	30,038	28,621	25,990
	220-240	23,120		24,279	25,070	27,370	30,038	28,621	25,990
	380-415	21,519		22,420	22,779	24,987	27,462	27,168	23,800
	440-480	21,316		22,218	22,577	24,785	27,260	26,965	23,607
	550-600	21,316		22,218	22,577	24,785	27,260	26,965	23,607
75	200-208	23,469		24,628	25,420	29,284	30,388	30,167	27,720
	220-240	23,120		24,279	25,070	28,934	30,038	29,817	27,370
	380-415	21,519		22,420	22,779	24,987	27,462	27,168	23,800
	440-480	21,519		22,420	22,779	24,987	27,462	27,168	23,810
	550-600	21,316		22,218	22,577	24,785	27,260	26,965	23,607
100	200-208	26,036		28,336	29,017	32,881	34,555	33,985	31,243
	220-240	26,036		28,336	29,017	32,881	34,555	33,985	31,243
	380-415	23,120		24,279	24,794	27,922	30,038	28,088	26,468
	440-480	21,519		23,653	24,168	27,296	27,462	27,462	25,843
	550-600	21,519		23,653	24,168	27,296	27,462	27,462	25,843

Master
Electric Controllers with Transfer Switch
50HZ and 60HZ ELECTRIC MOTOR DRIVE
For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

HP	Line Voltage	Across the line	Limited Service	Part Winding	Wye-Delta Open	Wye-Delta Closed	Autotransformer	Soft Start	Primary Resistor
		MCAT	MCLT	MCPT	MCOT	MCYT	MCTT	MCST	MCRT
Suggested List									
125	200-208	28,722		32,034	32,973	36,837	39,928	39,505	35,420
	220-240	28,722		32,034	32,973	36,837	39,928	39,505	35,420
	380-415	23,120		24,279	25,788	28,916	30,038	29,633	27,352
	440-480	23,120		24,279	25,788	28,916	30,038	29,633	27,352
	550-600	22,494		23,653	25,162	28,290	29,412	29,008	26,726
150	200-208	34,877		38,189	39,128	42,992	46,083	45,660	41,796
	220-240	34,877		38,189	39,128	42,992	46,083	45,660	41,796
	380-415	23,469		28,014	28,327	31,455	30,388	29,983	30,332
	440-480	23,120		24,279	25,788	28,916	30,038	29,633	27,352
	550-600	23,120		24,279	25,788	28,916	30,038	29,633	27,352
200	200-208								
	220-240	34,877		40,489	42,200	45,292	46,083	45,844	43,783
	380-415	28,722		28,980	29,845	32,973	39,928	39,689	32,706
	440-480	26,036		28,980	29,845	32,973	31,354	31,501	31,096
	550-600	23,120		26,064	28,529	31,657	30,038	30,185	29,780
250	200-208								
	220-240								
	380-415	34,877		38,189	39,128	43,360	46,083	45,844	43,028
	440-480	28,722		32,034	32,973	37,205	39,928	39,689	36,874
	550-600	28,722		32,034	32,973	37,205	39,928	39,689	36,874
300	220-240								
	380-415	34,877		38,189	41,980	45,660	46,083	46,083	45,715
	440-480	34,877		38,189	39,680	43,912	46,083	46,083	43,672
	550-600	28,722		32,034	33,525	37,757	39,928	39,928	37,518
	380-415								
350	440-480	37,508		38,189	41,980	46,212	51,345	50,168	46,267
	550-600	31,354		32,034	35,825	40,057	45,190	44,013	40,112
	380-415								
400	440-480	37,508		40,489	41,980	46,212	51,345	50,168	46,267
	550-600	37,508		40,489	41,980	46,212	51,345	50,168	46,267
	380-415								
450	440-480								
	550-600								
	380-415								
500	440-480								
	550-600								
	380-415								
600	440-480								
	550-600								
	380-415								
700	440-480								
	550-600								
	380-415								

**LIST PRICE SHEET
CONTROLLER COMPONENT**

50HZ and 60HZ ELECTRIC MOTOR DRIVE

For use with: Horizontal/Vertical Split-Case, Inline and End Suction Fire Pumps

Master Electric Controller Option List Pricing		Std Cont
Option	Description	List Price
POC	Programming Option Chassis, 8 SPDT contacts and 8 inputs for pump house trouble alarms (5 SPDT contacts on MCV controllers	297
SP1	120 vac Supervisory Power input for Built in Alarm System	396
SP2	240 vac Supervisory Power input for Built in Alarm System	396
12	NEMA 12 dusttight, driptight enclosure	347
12	NEMA 12 dusttight, driptight enclosure (transfer switch)	347
3R	NEMA 3R raintight enclosure	446
3R	NEMA 3R raintight enclosure (transfer switch)	891
4	NEMA 4 raintight enclosure	1,287
4	NEMA 4 raintight enclosure (transfer switch)	2,574
4XB	NEMA 4X corrosion resistant 304 ss watertight enclosure	RTF
4XC	NEMA 4X corrosion resistant 314 ss watertight enclosure	RTF
	Normal Source	
150*	Withstand Rating 150 Amps 200-480 voltage full service	3,257
200*	Withstand Rating 150 Amps 200-480 voltage full service	3,257
	Emergency Source	
28*	Withstand Rating 150 Amps 200-480 voltage full service	3,257
27*	Withstand Rating 150 Amps 200-480 voltage full service	3,257
FC	Foam controller upgrade (adds pre-programmed POC)	297
LPM	Leading phase monitor (MCO only)	1,337
8C*	Bottom feed input connection	2,000
8E*	CE declaration of conformity for European Community	1,426
15	300 PSI, 316 SS pressure transducer, drain valve, wet parts	3,485
15A	300 PSI, SS pressure transducer, drain valve, wet parts	3,069
16A	500 PSI, pressure transducer, drain valve, wet parts	653
19	Space heater (requires modification 33)	248
20	Space heater with thermostat (requires modification 33)	366
20A	Space heater with humidostat (requires modification 33)	772
23	Transfer switch engine over-run timer (engine cool down)	N/C
30	220-240 single phase input power (Up to 15 HP, MCL or MCA only	515
32	Low pump room temperature switch (recquire mod POC)	297
33	Auxiliary Power Output (1 Amp @ 115 VAC)	733
83LT	Low suction pressure transducer	535
SRAP-3	Remote Alarm Panel with single input power capabilities	1,337
DRAP-3	Remote Alarm Panel provide dual input power capabilities	1,624
	Mount Controller on base and wire to motor (600 v max)	1,800
	Mount Controller with transfer switch and wire to motor (600 volt max)	2,025

* Not Available on MCL

**LIST PRICE SHEET
CONTROLLER COMPONENT
DIESEL ENGINE DRIVE**

For use with: Horizontal Split-Case Fire Pumps

*Note: 24 volt diesel engines must use 24 volt controller price, even when upgrading from a 12 volt diesel engine to a 24 volt engine.

		Controller Sug. List Price				
Engine Model		Tornatech Controller Sug List	Eaton Controller Sug List	Metron Controller Sug List	Firetrol Controller Sug List	Master Controller Sug List
12 VOLT	Various	\$5,629	\$6,050	\$6,206	\$6,324	\$5,092
24 VOLT	Various	\$5,740	\$6,050	\$6,206	\$6,458	\$5,202

LIST PRICE SHEET
CONTROLLER OPTIONS
DIESEL ENGINE DRIVE
For use with: Horizontal Split-Case Fire Pumps

Tornatech Diesel Controller Options

Option	Description	List Price
A1	Periodic test alarm contact (Form C-SPDT)	73
A2	Overspeed alarm contact (Form C-SPDT)	73
A3	Low oil pressure alarm contact (Form C-SPDT)	73
A4	Highcoolant temperature alarm contact (C-SPDT)	73
A5	Failure to start alarm contact (Form C-SPDT)	73
A6	Battery 1 & 2 failure alarm contact (2 X Form C-SPDT)	147
A7	Charger 1 & 2 failure alarm contact (2 X Form C-SPDT)	147
A8	AC failure alarm contacts	73
A9	System overpressure alarm contact (Form C-SPDT) (for engines with PLD)	73
A11	Extra controller trouble alarm contact (Form C-SPDT)	73
A12	Extra engine trouble alarm contact (Form C-SPDT)	73
Ax	Add'l engine alarm contact (Form C-SPDT) (specify func)	73
B1	Low fuel level alarm contact (Form C-SPDT)	73
B2	Water reservoir level low alarm contact (C-SPDT)	73
B3	Water reservoir empty alarm contact (Form C-SPDT)	73
B4	Low ambient pump room temp alarm contact (C-SPDT)	73
B5	High fuel level alarm contact (Form C-SPDT)	73
B6	Low system pressure alarm contact (Form C-SPDT)	73
B7	Low suction pressure alarm contact (Form C-SPDT)	73
B8	Pump on demand alarm contact (Form C-SPDT)	73
B9	Fuel tank leak alarm contact (Form C-SPDT)	73
B10	Main relief valve open alarm contact (Form C-SPDT)	73
B11	Flow meter loop valve open alarm contact (C-SPDT)	73
B12	Water reservoir level high alarm contact (Form C-SPDT)	73
B13	High pump room temperature alarm contact (C-SPDT)	73
Bx	Other add'l alarm contact (Form C-SPDT) (specify func)	73
C5	CE Mark with factory certificate	N/C
C6	Nickel - cadium battery chargers	N/C
C7	Engine block heater circuit (same voltage as battery charger-primary)	156
C8	Foam Pump application w/o pressure transducer and run test solenoid valve	-342
C9	Non pressure actuated controller w/o pressure transducer and run test solenoid valve	-351
C13	Louver activation circuit (battery power specific)	229
C14	Delayed automatic start on AC power failure (factory set at 15 minutes)	N/C
C15	Low zone pump control function	44
C16	Medium zone pump control function	440
C17	High zone pump control function	395
C19	Lockout/interlock circuit from equipment installed inside the pump room	176
D1	NEMA 12 assembly	220
D1A	NEMA 3R assembly	371
D2	NEMA 4 assembly	683
D3A	NEMA 4X assembly stainless steel - 304 painted red	1,854
D3B	NEMA 4X assembly stainless steel - 304 brushed fnsH	RTF
D3C	NEMA 4X assembly stainless steel - 316 painted red	RTF
D3D	NEMA 4X assembly stainless steel - 316 brushed fnsH	RTF

Tornatech Diesel Controller Options

Option	Description	List Price
D4	Pressure transducer and run test solenoid valve for fresh water rated for 0-500 psi (fact calib)	N/C
D6	Pressure transducer and run test solenoid valve for sea water rated for 0-500 psi	859
D7A	Low fuel level switch 1-1/4" (supplied separate)	225
D7B	Low fuel level switch 1-1/2" (supplied separate)	225
D8A	High fuel level switch 1-1/4" (supplied separate)	225
D8B	High fuel level switch 1-1/2" (supplied separate)	225
D9A	Anti-condensation heater & thermostat	312
D9B	Anti-condensation heater & humidistat	225
D9C	Anti-condensation heater & thermostat & humidistat	429
D11	Low suction pressure transducer for fresh water rated for 0-300 psi with visual indication and alarm contact	390
D11A	Low suction pressure transducer for sea water rated for 0-300 psi with visual indication and alarm contact	663
D12	Tropicalization	390
D17	French language (do not use)	RTF
D18	Spanish language (do not use)	RTF
D19	Other languages (do not use)	RTF
D20	NEMA 3 assembly	488
D21	IP54 assembly	371
D22	IP55 assembly	488
D23	IP65 assembly	683
D24	IP66 assembly	RTF
D25	Mounting stand (steel, painted)	195
D25A	Mounting stand (stainless steel 304, painted)	585
D25B	Mounting stand (stainless steel 304, brushed finish)	RTF
D25C	Mounting stand (stainless steel 316, painted)	RTF
D25D	Mounting stand (stainless steel 316, brushed finish)	RTF
D26	Combined low and high fuel level float switch 1-1/4" (advise diameter of fuel tank)	927
D26A	Combined low and high fuel level float switch 1-1/2" (advise diameter of fuel tank)	927
D27	Fuel level probe level indication 1-1/4"	4,098
D28	Field programmable i/o board-8 input/5 output	N/A
D28A	Field programmable i/o board - 5 input /5 output	N/A
D29	Field programmable i/o board-8 input/10 output	N/A
D30	Redundant pressure transducer for fresh water rated for 0-500 psi	390
D31	Redundant pressure transducer for sea water rated for 0-500 psi	781
D32	Modbus RTU provision	2,634
D32A	Modbus TCP/IP provision	Incl
D33	Window Kit for Operator Interface	N/A
D34	Controller rated for 50oC ambient temperature	N/A
D34A	Controller rated for 55oC ambient temperature	Incl.
D35	Replaced by D34A	
D35A	No longer required, Replaced by option D34A	
D35B	No longer required, Replaced by option D34A	
D35C	No longer required, Replaced by option D34A	
D35D	No longer required, Replaced by option D34A	
D35E	No longer required, Replaced by option D34A	
APD	Remote Alarm Panel for Single Diesel Pump	585
APDD	Remote Alarm Panel for Two Diesel Fire Pumps	878
	Mount Controller on Base	2,025

**LIST PRICE SHEET
CONTROLLER OPTIONS
DIESEL ENGINE DRIVE**

For use with: Horizontal Split-Case Fire Pumps

Eaton (Cutler Hammer) Diesel Controller Option List Pricing

Option	Description	List Price
L1	English	N/C
L2	French	N/C
L4	Italian	N/C
L5	Spanish	N/C
L6	Portuguese	N/C
L7	Chinese	N/C
L8	Polish	N/C
L9	Dutch	N/C
L11	Turkish	N/C
380*	Supply Voltage (380V 50/60 Hertz)	609
400*	Supply Voltage (400V 50/60 Hertz)	609
415*	Supply Voltage (415V 50 Hertz)	609
480*	Supply Voltage (480V 60 Hertz)	609
600*	Supply Voltage (600V 60 Hertz)	609
COM	Communication Option	558
CX	Extra Contacts (Two Form-C; Specify Function)	91
E1	NEMA 3R - Raintight Enclosure	386
E2	NEMA 4 - Watertight Enclosure	1,624
E3	NEMA 12 - Dust Tight Enclosure	228
E5	NEMA 4X - 304 Stainless Steel	4,972
E8	Tropicalization	304
E9	NEMA 4X - Painted Steel	1,725
E10	NEMA 4X - 316 Stainless Steel	5,784
EX	Export Crating	533
F2	Floor Stand- 2 Inch Height**	25
LO	Powered Louver Contacts - (1.6 Amp Max)	178
LO+	Powered Louver Contacts - (Up to 8.0 Amp)	355
LX	Extra Light (Specify Description)	91
Ni	Nicad Batteries	N/C
P5	Proof Pressure Switch -ALCO - 19-250 PSI	122
P7	Low Suction Pressure Switch	578
P8	Shutdown (Requires P7 Option)	STD
P10	Pressure Transducer - Sea Water	609
P13	Externally Mounted Pressure Transducer**	N/C
R1	Space Heater 120/220 V 50/60 hertz	188
R2	Space Heater c/w Thermostat	254
R3	Space Heater c/w Humidistat	254
R4	Low Room Temperature Switch***	294
R5	Space Heater (Internally Powered - 120/240 V	RTF
S1	Fuel Level Switch, 16 inch	223
S2	Fuel Level Switch, 45 inch	243
S3	Fuel Level Switch, High-Low	1,294
USB	Externally Mounted USB Cord	274
DFDAP-M	Remote Alarm Panel	730
	Mount Controller on Base	2,025

All controllers are factory set for 12Vdc operation, unless otherwise noted on purchase order

* Standard voltage supplied 110/220V 50/60 hertz

** Not available for NEMA 4 or NEMA 4X units

Note: *** When ordered with a NEMA 4 or NEMA 4X enclosure, the temperature switch is shipped loose with 20 feet of wire

**LIST PRICE SHEET
CONTROLLER OPTIONS
DIESEL ENGINE DRIVE**
For use with: Horizontal Split-Case Fire Pumps

Hubbell (Metron) Diesel Controller Option List Pricing

Description	LED	Form C Dry Contacts	Qty of Contacts Rec
Engine quit fault	{ }	{ }	{ }
Pressure Transducer fault	{ }	{ }	{ }
Pump on Demand	{ }	{ }	{ }
Low Discharge Pressure	{ }	{ }	{ }
High Discharge Pressure	{ }	{ }	{ }
(All items below require a N.O. contact provided by customer)			
Engine Lock Out	{ }	{ }	{ }
Remote Start Signal	{ }	{ }	{ }
Deluge Valve Start	{ }	{ }	{ }
(A maximum of six can be chosen)			
High Fuel Level	{ }	{ }	{ }
Fuel Spill	{ }	{ }	{ }
Fuel Tank Rupture	{ }	{ }	{ }
Low Fuel Pressure	{ }	{ }	{ }
High Fuel Temperature	{ }	{ }	{ }
Reservoir Low	{ }	{ }	{ }
Reservoir High	{ }	{ }	{ }
Reservoir Empty	{ }	{ }	{ }
Low Pump Room Temperature	{ }	{ }	{ }
Flow Meter On	{ }	{ }	{ }
Relief Valve Open	{ }	{ }	{ }
Low Suction Pressure	{ }	{ }	{ }
High Engine Oil Temperature	{ }	{ }	{ }
Low Jacket Water Flow	{ }	{ }	{ }
Low Jacket Water Level	{ }	{ }	{ }
Low Hydraulic Pressure	{ }	{ }	{ }
Air Damper Closed	{ }	{ }	{ }
Air Damper Open	{ }	{ }	{ }
Low Purge Pressure	{ }	{ }	{ }
Low Gear Oil Pressure	{ }	{ }	{ }
Low Coolant Level	{ }	{ }	{ }
High Gear Oil Temperature	{ }	{ }	{ }
High Vibration	{ }	{ }	{ }
High Exhaust Temperature	{ }	{ }	{ }

Maximum number of LEDs is 10 **(STD)**

Maximum number of contacts, including default contacts, can not exceed 9. Each alarm condition can have a maximum 3 contacts **(STD)**

Hubbell (Metron) Diesel Controller Option List Pricing

Option	Description	List Price
H	Space Heater (100 Watt) w Thermostat	258
H	Space Heater (100 Watt) w Humistat	258
J	Integral Battery Charges	Std
JJ	Integral Battery Charges (This option required for engines with high capacity starting batteries that exceed 220 ampere hours)	RTF
N	Step down transformer (all voltages above 240 VAC specify voltage)	506
W	24" (609.6mm) legs for free standing (floor inst)	226
W	24" (609.6mm) SS legs for free standing (floor installation)	906
{ }	Removeable gland plate	258
{ }	Fuel Switch with one alarm point *	978
{ }	Fuel Switch with two alarm points *	1,285
{ }	Pump Room Temperature thermostat mounted on exterior of enclosure (NEMA 2 rated)	44
{ }	Pump Room Temperature thermostat mounted on exterior of enclosure (NEMA 4 rated)	164
{ }	Low switch cut off pressure switch (ext mounted)	515
{ }	Export Crating (Suitable for below deck or air)	618
{ }	Purge System, Type Z System, per NFPA 496 suitable for Class 1, Division 2, Group CD	RTF
{ }	Modbus Communication via RS485	Std
{ }	600 PSI Fresh Water Plumbing	Std
{ }	300 PSI Salt Water/Foam	567
{ }	600 PSI Salt Water/Foam	772
{ }	NEMA 4 (Painted Steel)	Std
{ }	NEMA 4X (Painted Steel)	618
{ }	NEMA 4X (Unpainted 304 Stainless Steel)	618
{ }	NEMA 4X (304 Painted Stainless Steel)	RTF
{ }	NEMA 4X (Unpainted 316 Stainless Steel)	3,548
{ }	NEMA 4X (316 Painted Stainless Steel)	RTF
{ }	NEMA 12 (Specify)	N/C
{ }	Lifting Lugs	N/C
RAP-D	Remote Alarm Panel	1,004
	Mount Controller on Base	2,149

* Device shipped loose for Customer Installation

LIST PRICE SHEET
CONTROLLER OPTIONS
DIESEL ENGINE DRIVE
For use with: Horizontal Split-Case Fire Pumps

Firetrol Diesel Controller Options

Option	Description	List Price
Special Enclosures		
-E	NEMA Type 4 (IP66) Painted Steel	726
-F	NEMA Type 4X (IP66) #304 SS, Brushed Finish	2,595
-FD	NEMA Type 4X (IP66) #316 SS, Brushed Finish	RTF
-FDB	NEMA Type 4X (IP66) #316 SS, 12 Gauge, Seam Welded, Brushed Finish	RTF
-FDP	NEMA Type 4X (IP66) #316 SS, Painted Finish	RTF
-FXP	NEMA Type 4X (IP66) #304 SS, Painted Finish	RTF
-G	NEMA Type 12 (IP54), Painted Steel	N/C
-T	NEMA Type 3R (IP24), Painted Steel	394
Mounting Legs		
-N31	Mounting Legs, 12 inch, Painted Steel	197
-N31S	Mounting Legs, 12 inch, Stainless Steel	234
Anti-Condensation Space Heaters		
-H	Space Heater, 120V Externally Powered w/ Circuit Breaker	208
-J	Space Heater, 120V Externally Powered with Circuit Breaker and Thermostat	333
-K	Space Heater, 120V Externally Powered with Circuit Breaker and Humidistat	333
-L	Space Heater, 240V Externally Powered w/ Circuit Breaker	208
-M	Space Heater, 240V Externally Powered with Circuit Breaker and Humidistat	333
-N	Space Heater, 240V Externally Powered with Circuit Breaker and Humidistat	333
Pressure Transducers, Solenoid, Plumbing		
-B	Wetted Parts including Pressure Sensor, 600 psi (42 bar) Fresh Water	N/C
-C	Wetted Parts including Pressure Sensor, 300 psi (21 bar) Sea Water	623
-D	Wetted Parts including Pressure Sensor, 600 psi (42 bar) Sea Water	623
Alarms		
-AC	Alarm Output Contacts Extra, Engine Runing (3 sets)	197
-AJ	Alarm Output Contacts, Engine Overspeed	104
-AK	Alarm Output Contact, Low Oil Pressure	104
-AL	Alarm Output Contacts, High Water Temperature	104
-AM	Alarm Output Contacts, Fail to Start	104
-AN	Alarm Output Contacts, Battery / Charger Failure	104
-AP	Alarm Output Contacts, Main Switch in Manual	104
-AR	Alarm Output Contacts, Main Switch in Off	104
-AS	Alarm Output Contacts, Main Switch in Auto	104
-AT	Alarm Output Contacts, Pump Room Trouble	104
-AV	Alarm Output Contacts, Low Pump Room Temp*	104
-AW	Alarm Output Contacts, Reservoir Low*	104
-AY	Alarm Output Contacts, Low Suction Pressure*	104
-COM	Alarm, Audible/Visible/Output Contacts, Low Suction Pressure w/ Manual Reset Option (pressure switch not inc)	156
-CPL	Alarm Output Contacts, Overpressure	104
-CTS	Alarm, Audible/Visible/Output Contacts, Low Suction Pressure Shutdown with manual reset option and pressure switch	415

Firetrol Diesel Controller Options

Option	Description	List Price
Alarms		
-ECMFR	Alarm Output Contacts, Elec Engine ECM Failure	104
-ECMWR	Alarm Output Contacts, Elec Engine ECM Warning	104
-EE	Alarm Output Contacts Extra, Engine Trouble, 1 set	197
-EF	Alarm Output Contacts Extra, Main Switch not in Auto, (1 set)	104
-EH	Alarm Output Contacts Extra, Relief Valve Discharge*	104
-EJ	Alarm, Audible/Visible, Flow Meter On*	104
-EK	Alarm Output Contacts, Flow Meter On (requires -EJ)	104
-HRTR	Alarm Output Contacts, High Raw Water Temp	104
-JR	Visible Indicator, Jockey Pump Operating	104
-JT	Alarm, Audible/Visible, Joecckey Pump Trouble	104
-LC	Alarm output contacts, High Fuel Level	104
-LE	Alarm Output Contacts, Fuel Spill	104
-LETR	Alarm Output Contacts, Low Engine Temperature	104
-LG	Alarm Output Contacts, Reservoir High*	104
-LRFR	Alarm Output Contacts, Low Raw Water Flow (clogged strainer)	104
-LSPR	Alarm Output Contacts, Low Suction Pressure (at variable speed suction limiting engine controls)	104
-PE	Alarm Output Contacts, Low System Pressure (Pump on Demand)	104
Miscellaneous		
-AZ	Thermostat, Low Pump Room Temp, Mounted & Wired	270
-BA	AC Input, 220-240V	N/C
-EL	Series Pumping Operation, High Zone Controller	426
-EM	Series Pumping Operation, Mid Zone Controller	467
-EN	Series Pumping Operation, Low Zone Controller	52
-IEC	Marking, CE with External Wet Parts	RTF
-OSP	Marking, OSHPD Seismic Certification (Requires -SEI)	623
-S	Tropicalization	311
SEI	Marking, Seismic Certified	415
-USBX	Data Port, Extenal USB	156
-ZPA	Scheduled Service Message	N/C
-ZPM	Data Port, Serial Modbus RTU Over 2-Wire or 4-Wire RS485	726
-ZPN	Data Port, Serial Modbus RTU Over Ethernet TCP/IP	726
FTA1100-K1	Low Fuel Level Switch, 16" Max insertion length**	249
FTA1100-K1-X	High/Low fuel level switch-specify levels/tank dimensions	623
FTA1100-K2	Low Fuel Level Switch, 25" Max insertion length**	623
FTAK21	380-480 Volt Operation, (transformer)**	623
	Export packaging (Wooden crating to conform to IPCC Standargs)	830
FTA200-F	Remote Alarm Panel for single Diesel Pump Mount Controller on Base	778 2,025

* Initiating switches by others

** Shipped loose for installation by the customer

**LIST PRICE SHEET
CONTROLLER OPTIONS
DIESEL ENGINE DRIVE**

For use with: Horizontal Split-Case Fire Pumps

Master Diesel Controller Option List Pricing (For MC Controllers)

Option	Description	List Price
Alarm Lights and Contacts		
POC	Programmable Option Chassis, 8 SPDT contacts	246
Enclosures		
12	NEMA 12 dusttight, driptight enclosure	288
3R	NEMA 3R raintight enclosure	410
4	NEMA 4 watertight enclosure	583
4XB	NEMA 4X corrosion resistant 304 ss watertight encl	RTF
4XC	NEMA 4X corrosion resistant 316 ss watertight encl	RTF
12B	Adds 36" NEMA 12 base cabinet for 72" height (requires mod. 12 on DMC)	1,313
L	Adds 18" painted legs to any of the above controllers Note: add the L immediately after enclosure option (ex 12 bcomes 12L)	238
Miscellaneous Modifications		
FC	Foam Controller upgrade (adds pre-programmed POC)	246
5C	Brass Purge Fittings (two 1/2" FPT bulkhead fittings for instrument air)	164
5D	SS purge fittings in size as shown above (for NEMA 4X)	410
8E	CE declaration of conformity for the European Community	1,182
15	300 PSI, 316 SS pressure transducer, drain valve and, wet parts	2,884
15A	300 PSI, SS pressure transducer, drain valve and, wet parts	2,538
16A	500 PSI, pressure transducer, drain valve and, wet parts	536
19	Space Heater	206
20	Space Heater with Thermostat	303
20A	Space Heater with Humidistat	640
32	Low Pump Room Temperature Switch	246
83LT	Low Sucton Pressure Transducer	444
SRAP-3	Remote Alarm Panel for single input power capabilities	1,108
DRAP-3	Remote Alarm Panel for dual input power capabilities	1,519
	Mount Controller on Base	2,025

**LIST PRICE SHEET
JOCKEY FIRE PUMP
CONTROLLERS**

DIRECT ON LINE (DOL) HORSEPOWER	VOLTAGE	TORNATECH SUG. LIST	EATON CUTLER- HAMMER SUG. LIST	EATON Jockey Lite SUG LIST	HUBBEL METRON SUG. LIST	FIRETROL SUG. LIST FTA550F	MASTER SUG. LIST
1/3-2	200-208	\$596	\$906	\$609	\$1,121	\$1,065	\$919
	220-240	\$596	\$906	\$609	\$1,081	\$1,065	\$919
	380-480	\$596	\$906	\$609	\$1,121	\$1,065	\$919
3	200-208	\$596	\$906	\$609	\$1,299	\$1,065	\$919
	220-240	\$596	\$906	\$609	\$1,081	\$1,065	\$919
	380-480	\$596	\$906	\$609	\$1,081	\$1,065	\$919
5	200-208	\$637	\$906	\$683	\$1,313	\$1,065	\$919
	220-240	\$596	\$906	\$683	\$1,313	\$1,065	\$919
	380-480	\$596	\$906	\$683	\$1,081	\$1,065	\$919
7-1/2	200-208	\$637	\$906	\$683	\$1,313	\$1,065	\$919
	220-240	\$637	\$906	\$683	\$1,299	\$1,065	\$919
	380-480	\$596	\$906	\$683	\$1,340	\$1,065	\$919
10	200-208	\$894	\$1,358	\$683	\$1,340	\$1,734	\$1,464
	220-240	\$637	\$1,358	\$683	\$1,340	\$1,295	\$1,464
	380-480	\$637	\$967	\$683	\$1,299	\$1,065	\$919
15	200-208	\$894	\$1,358	\$1,365	\$1,422	\$1,734	NA
	220-240	\$894	\$1,935	\$1,365	\$1,422	\$1,734	\$1,464
	380-480	\$637	\$967	\$1,365	\$1,299	\$1,295	\$1,464
20	200-208	\$1,274	NA	\$1,365	\$1,593	\$1,734	NA
	220-240	\$894	\$1,935	\$1,365	\$1,422	\$1,734	NA
	380	\$637	\$967	\$1,365	\$1,422	\$1,734	\$1,464
25	480	\$637	\$967	\$1,365	\$1,374	\$1,295	\$1,464
	200-208	\$1,397	NA	NA	\$1,764	\$1,734	NA
	220-240	\$1,274	\$1,935	NA	\$1,764	\$1,734	NA
30	380-480	\$894	\$1,358	\$1,365	\$1,415	\$1,734	\$1,464
	200-208	\$1,397	NA	NA	NA	NA	NA
	220-240	\$1,397	\$2,120	NA	NA	\$1,734	NA
	380-480	\$1,274	\$1,935	\$1,365	\$1,415	\$1,734	\$1,924

**LIST PRICE SHEET
JOCKEY FIRE PUMP
CONTROLLERS**

WYE DELTA OPEN HORSEPOWER	VOLTAGE	Tornatech SUG. LIST	EATON CUTLER- HAMMER SUG. LIST	HUBBELL METRON SUG. LIST	FIRETROL SUG. LIST	MASTER SUG. LIST
1/3-2	200-208	\$1,274	\$2,002	\$3,321	\$2,162	RTF
	220-240	\$1,274	\$2,002	\$3,278	\$2,162	RTF
	380-480	\$1,274	\$2,002	\$3,395	\$2,162	RTF
3	200-208	\$1,274	\$2,002	\$3,333	\$2,162	RTF
	220-240	\$1,274	\$2,002	\$3,275	\$2,162	RTF
	380-480	\$1,274	\$2,002	\$3,395	\$2,162	RTF
5	200-208	\$1,274	\$2,002	\$3,391	\$2,162	RTF
	220-240	\$1,274	\$2,002	\$3,370	\$2,162	RTF
	380-480	\$1,274	\$2,002	\$3,395	\$2,162	RTF
7-1/2	200-208	\$1,274	\$2,002	\$3,567	\$2,162	RTF
	220-240	\$1,274	\$2,002	\$3,370	\$2,162	RTF
	380-480	\$1,191	\$2,002	\$3,463	\$2,162	RTF
10	200-208	\$1,787	\$2,002	\$3,567	\$2,926	RTF
	220-240	\$1,274	\$2,002	\$3,458	\$2,926	RTF
	380-480	\$1,274	\$2,002	\$3,463	\$2,162	RTF
15	200-208	\$1,787	\$2,522	\$3,815	\$2,926	RTF
	220-240	\$1,787	\$2,522	\$3,534	\$2,926	RTF
	380-480	\$1,274	\$2,522	\$3,644	\$2,703	RTF
20	200-208	\$2,548	NA	\$4,045	\$3,373	RTF
	220-240	\$1,787	\$2,522	\$3,843	\$3,373	RTF
	380-480	\$1,274	\$2,522	\$3,644	\$2,728	RTF
25	200-208	\$2,794	NA	\$4,857	\$3,373	RTF
	220-240	\$2,548	\$2,522	\$4,055	\$3,373	RTF
	380-480	\$1,787	\$2,522	\$3,715	\$2,703	RTF
30	200-208	\$2,794	NA	NA	\$3,373	RTF
	220-240	\$2,794	\$3,160	NA	\$3,373	RTF
	380-480	\$2,548	\$3,160	NA	\$3,373	RTF
40	200-208	NA	NA	NA	NA	RTF
	220-240	NA	\$3,252	NA	NA	RTF
	380-480	NA	\$3,252	NA	\$3,486	RTF
50	200-208	NA	NA	NA	NA	RTF
	220-240	NA	NA	NA	NA	RTF
	380-480	NA	\$3,252	NA	\$3,486	RTF

**LIST PRICE SHEET
JOCKEY FIRE PUMP
CONTROLLER OPTIONS**

Eaton (Cutler Hammer) Jockey Controller Option List Pricing

Option	Description	List Price
C1	Extra Contacts (Pump Run)	159
C2	Extra Contacts (AC Power Failure)	159
E1	NEMA 3R - Raintight Enclosure	198
E2	NEMA 4 - Watertight Enclosure	787
E3	NEMA 12 - Dust Tight Enclosure	148
E5	NEMA 4X - 304 Stainless Steel	990
E8	Tropicalization	272
E9	NEMA 4X - Painted Steel	792
E10	NEMA 4X - 316 Stainless Steel	1,188
EX	Export Crating	519
POL	"Power On" Light	119
PRL	"Pump Run" Light	119
P7	Low Suction Pressure Switch and Alarm Pilot Light	564
P8	Low Suction Shutdown (Requires P7 Option)	74
P10	Pressure Transducer - Sea Water	594
R1	Space Heater 120/220 V	247
R2	Space Heater c/w Thermostat	317
R3	Space Heater c/w Humidistat	317
S	Sequential Start	247
T	Running Period Timer	159
Z	Elapsed Run Timer Meter	123

Metron (Hubbell) Jockey Controller Option List Pricing

Option	Description	List Price
Options		
C	Pump Failed to Start	404
H	Space Heater with Thermostat or Humidistat	323
J	Loss of Control Power Dry Contacts	91
L	Local Pump Running Light	STD
M	Motor Lockout Circuit	91
S	Delay Start Circuit	STD
U	Local Motor Stopped Light	121
V	Power Available Dry Contact	91
X	Remote Start Circuit	91
{ }	Total Hour Meter	126
Plumbing		
{ }	600 PSI for Freshwater	STD
{ }	600 PSI Stainless Steel (Saltwater/Foam)	485
Enclosures		
{ }	NEMA 3R	STD
{ }	NEMA 4	702
{ }	NEMA 4X (Painted Steel)	702
{ }	NEMA 4X (304 Unpainted Stainless Steel)	1,070
{ }	NEMA 4X (304 Painted Stainless Steel)	RTF
{ }	NEMA 4X (Unpainted 316 Stainless Steel)	1,609
{ }	NEMA 4X (316 Painted Stainless Steel)	RTF
{ }	24" (609.6 mm) steel mounting legs	101
{ }	24" (609.6 mm) stainless steel mounting legs	202
{ }	Export Crating	279
{ }	Tropicalization	76
{ }	H-O-A Switch not in Auto Alarm	222
{ }	RS485 for connection to FD4 or MP Controller	222

Tornatech Jockey Controller Option List Pricing

Option	Description	List Price
A1	Minimum run period timer	Inc
A2	Run green pilot light	Inc
A3	Power on white pilot light	Inc
A4	Elapsed time meter (time totalizer)	129
A5	Motor run alarm contact	166
A6	Loss of power alarm contact	166
A7A	Overload pilot light	Inc
D8	NEMA 12 assembly	155
D8A	NEMA 3R assembly	207
D9	NEMA 4 assembly	560
D10	NEMA 4X assembly stainless steel - 304 painted	825
D10A	NEMA 4X assembly stainless steel - 316 painted	RTF
D10B	NEMA 4X assembly stainless steel - 304 brushed fnsh	RTF
D10C	NEMA 4X assembly stainless steel - 316 brushed fnsh	RTF
D11D	Pressure transducer 0-600 psi (for factory calibration)	N/C
D12	CE Mark c/w externally mounted wetted parts	124
D13A	Externally mounted wetted parts	124
D14	Export packing for 1 controller	259
15	French language (do not use)	RTF
16	Spanish language (do not use)	RTF
17	Other languages (do not use)	RTF
D18	Audible Alarm	166
D19	Anti-condensation heater & thermostat	332
D20	Anti-condensation heater & humidistat	332
D21	Tropicalization	286
D22	Phase Reversal / Failure pilot light and alarm contact	597
D23	Controller power healthy pilot light and alarm contact	291
D24	Pump failure via current sensing relay with pilot light and dry alarm contact	850
D25	Low zone pump control function	46
D26	Mid zone pump control function	466
D27	High zone pump control function	420
D28	Selector switch in auto alarm contacts	166
D29	Selector switch in off or manual alarm contacts	166
D30	Motor heater circuit	435
D31	Service entrance rated (no longer available)	NA
D32	100 kA short circuit withstand rating	RTF
D33	150 kA short circuit withstand rating	RTF
D34	50 kA short circuit withstand rating	RTF

**LIST PRICE SHEET
JOCKEY FIRE PUMP
CONTROLLER
OPTIONS**

Firetrol Jockey Controller Option List Pricing

Option	Description	List Price
Special Enclosures		
-T	NEMA Type 3R (IEC IP22), Painted Steel	214
-E	NEMA Type 4 (IEC IP66)	749
-F	NEMA Type 4X (IEC IP66)	1,603
-FXP	NEMA Type 4X (IEC IP66) #304 SS, Painted Finish	RTF
-FD	NEMA Type 4X (IEC IP66) #316 SS, Unfinished**	RTF
-FDB	NEMA Type 4X (IEC IP66) #316 SS, 12 Gauge, Seam Welded, Brushed Finish	RTF
-FDP	NEMA Type 4X (IP66) #316 SS, Painted Finish	RTF
-G	NEMA Type 12 (IP54), Painted Steel	214
	** Unfinished (Not painted, brushed, or polished)	
Higher Short Circuit Current Rating		
	Fusable disconnect Switch with Fuses (200,000 Amps, RMS Sym)	107
Anti-Condensation Space Heaters ¹		
-H	120 Volt Space Heater	214
-J	120 V Space Heater with Thermostat	342
-K	120 V Space Heater with Humistat	342
-L	240 Volt Space Heater	214
-M	240 V Space Heater with Thermostat	342
-N	240 V Space Heater with Humistat	342
	(*1 Power Source supplied by others)	
Pressure Transducers		
-B	0-600 (0-42.25 bar) Pressure Transducer for Fresh Water	N/C
-C	0-300 (0-21.1 bar) Pressure Transducer for Corrosive Service	321
-D	0-600 (0-42.25 bar) Pressure Transducer for Corrosive Service	321
Miscellaneous		
-AC	Contacts for Remote Indication, Pump Run	193
-AG	Built-in reservoir low alarm (visible)	193
-AM	Contacts for Remote Indication, Failed to Start	193
-AST	Auto Start Contacts (for connection to supplier N.O. remote starting device)	193
-AW	Contacts for Remote Indication, Reservoir Low	193
-BW	Contacts for Remote Indication, Phase Failure/Reversal	193
-BY	Contacts for Remote Indication, System Overpressure	193
-CPL	Contacts for Remote Indication, Pump Overload	193
-EF	Contacts for Remote Indication, Switch Not In Auto	193
-HV	Audible Alarm	193
-KH	Contacts for Remote Indication, Common Output for Any Alarm	193
-NZ	Interlock Input Contacts to Prevent Jockey Pump from Starting During Main Controller Operation	193
-PE	Contacts for Remote Indication, Low System Pressure	193
-S	Tropicalization	428
-SEI	Seismic Certification (in accordance with IBC)	428
-ZPA	Customized, annual service display message (when factory programmed or programmed by Firetrol rep during start-up)	NC
-ZPJ	Communications, Serial Modbus over RS485, 2 or 4 wire	530
	Export Packaging available for additional cost	

Master Jockey Controller Option List Pricing

Option	Description	List Price
Controller Options		
1	Control Power Transformer	191
2	Minimum Run Timer	STD
3	Spare Line Fuses	64
4	Restart Delay Timer	STD
Modifications		
A1	One N.O. and one N.C. Pump Running Contact	107
A2	Two N.O. and two N.C. Pump Running Contacts (not (available with L1)	214
L1	Pump Running Pilot Light	139
L2	Power Available Pilot Light	139
M1	Run Time Meter (Option 1 must also be ordered)	364
RA	External Overload Reset	203
S1	Service Entrance Rating	342
W7	High-pressure wetted parts (500 psi - 15 psi fixed differential)	385