

# FULL RANGE EXPERTISE

Fire Pumps for Every Standard



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## NOW PUTTING OUT FIRE, COME EASY WITH COMPLETE LOCAL ASSEMBLED FIRE PUMP SYSTEM

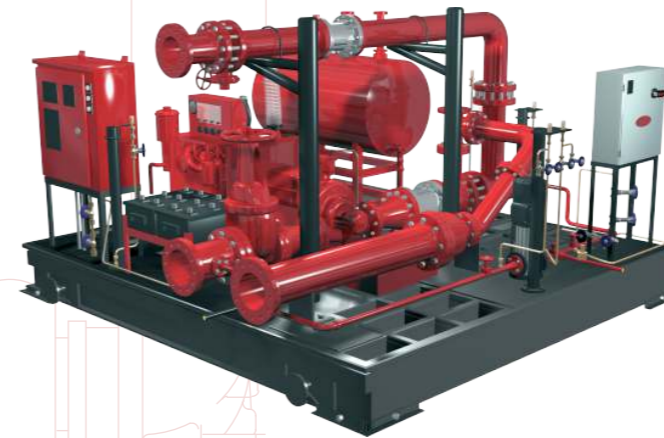
Grundfos, one of the world's leading pump manufacturers, is introducing the largest range of quality pumping systems for local and NFPA 20 standard non listed fire fighting pumps. Using Grundfos, PACO, & Peerless pumps and completed by finest quality pumping system which are reliable, durable, and cost efficient.

As a total solution provider, we provide customers with complete fire pumps sets combining pumps, drivers, controllers and accessories. Our robustly-built pump types included end-suction pumps and horizontal split casing pumps - compatible to both electric and diesel driven fire pumps - are compliant to both local and international such as NFPA. What's more, we provide customers with prompt after sales service.

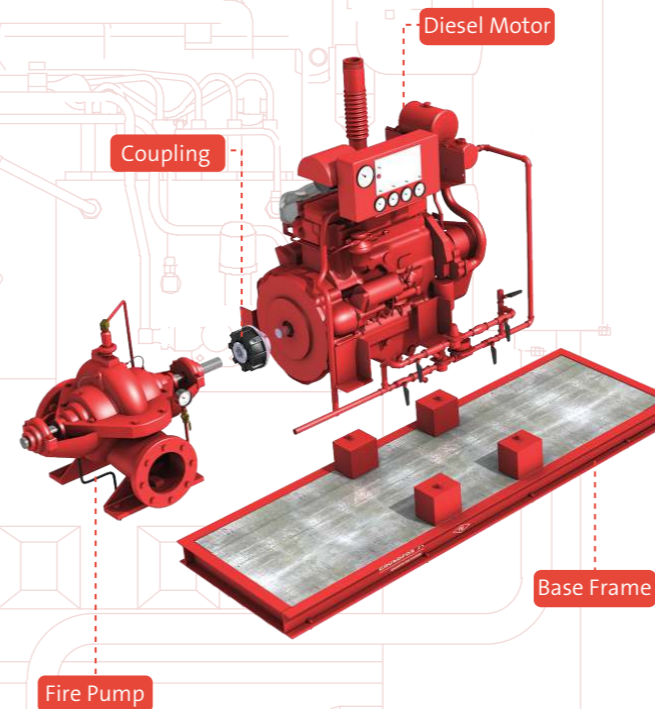
Always with our customers in mind, we offer them absolute flexibility in terms of customized approach in product and services.

## DIESEL ENGINE DRIVEN PUMP SET

Grundfos, offer a range of diesel engine driven fire pump set offering a compact modular design which include integrated control panel, fuel tank and dual battery sets. Operating in 12 V / 24 V DC electric current starting system, the engine can be cooled by air, radiator, heat exchanger.



DIESEL ENGINE (Exploded view)

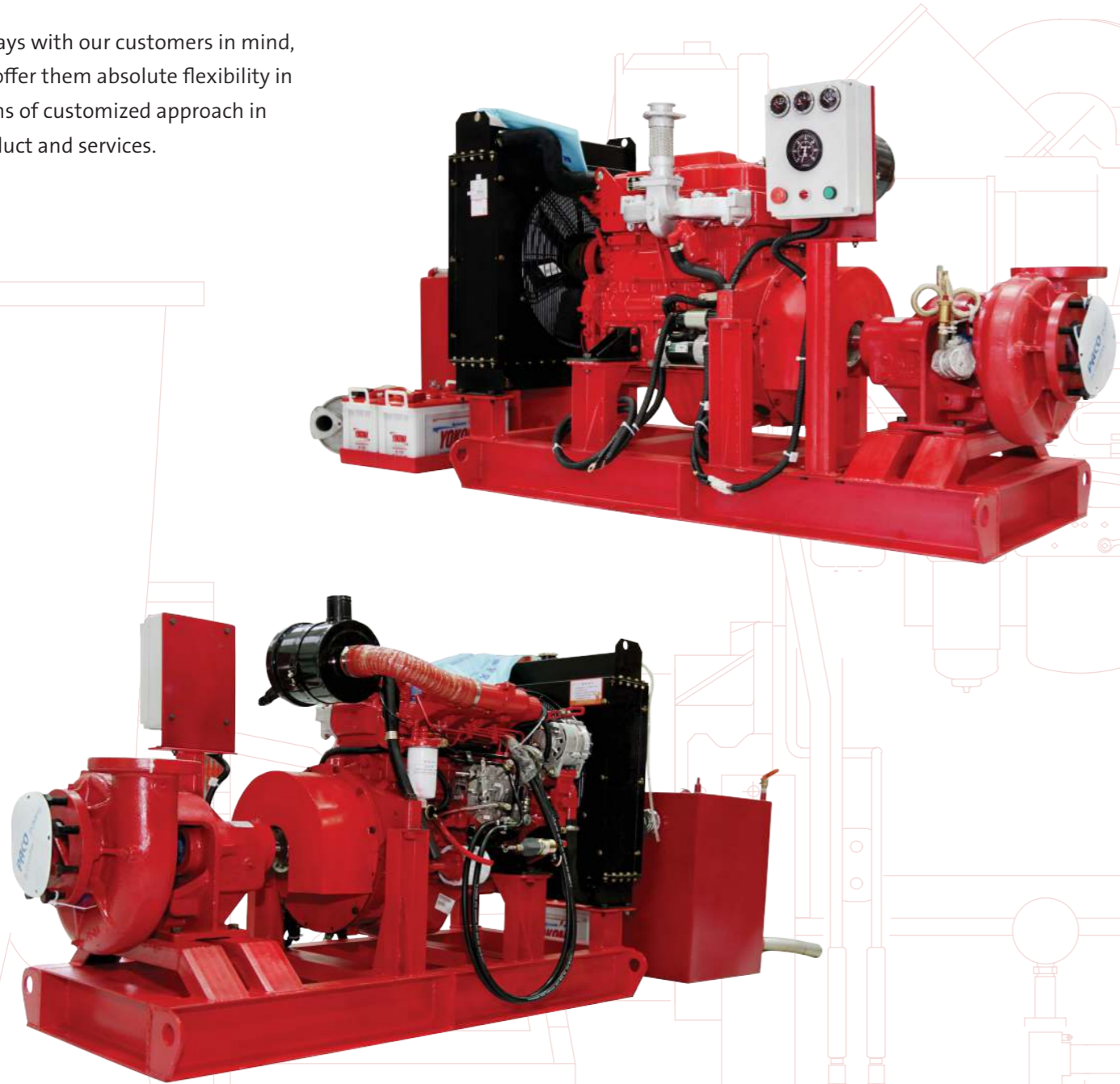
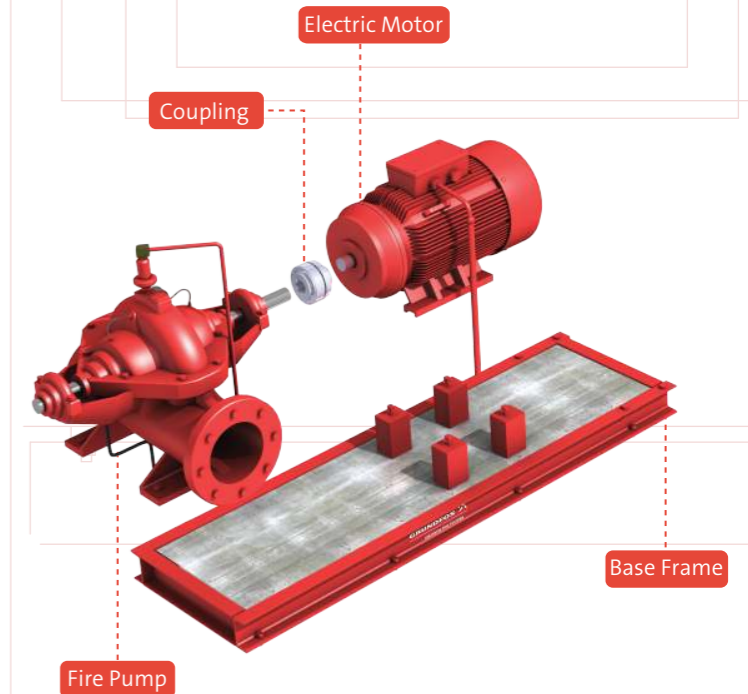


## ELECTRIC DRIVEN PUMP SET

Our versatile range of electric motor fire pump controller are suitable for various types of operations 50Hz or 60Hz, low voltage depending on customers requirements. These controllers are supplied with Nema 2 enclosure, either wall-mounted or free standing. Starting methods include DOL (Direct on Line or accros the line) starting, Star-delta starting, part winding starting and auto-transformer starting or soft-starting.

The pumps provide a long coupled option, complete with back pull out arrangement and a horizontal split case with double-suction design. Available with bronze impeller and cast iron casing as a standard. All pumps are dynamically balanced and impellers are hydraulically balanced.

ELECTRIC FIRE PUMP (Exploded view)



**STANDARD FIRE PUMPS  
COMPLIANCE TO NFPA 20 STD - ELECTRIC**



NO	PART NUMBER	CAPACITY	HEAD (M)	RANGE HEAD (M)	P2 kW	Imp. Dia	PUMP TYPE - NFPA 20 STD NON LISTED
1	98803078	500 US GPM (113,5 m3/h)	78.00	73,8-78	43.70	270.00	Fire NFPA NKG125-80-250/234 -MOT 55 kW 2P
2	98803080		96.00	93,1-96	55.00	296.00	Fire NFPA NKG125-80-250/257 -MOT 75 kW 2P
3	98803101		107.00	105-107	61.80	308.00	Fire NFPA NKG125-80-250/270 -MOT 90 kW 2P
4	98803102		115.00	112-115	73.30		Fire NFPA NKG125-80-315/278 -MOT 90 kW 2P
5	98803103		127.00	112-127	81.00		Fire NFPA NKG125-80-315/295 -MOT 110 kW2P
6	98803104		140.00	138-140	93.20		Fire NFPA NKG125-80-315/310 -MOT 132 kW2P
7	98803107	750 US GPM (170,25 m3/h)	80.00	67,2-80	62.10	234.00	Fire NFPA NKG125-80-250/234 -MOT 55 kW 2P
8	98803108		83.10	78,1-83,1	72.00	257.00	Fire NFPA NKG125-80-250/257 -MOT 75 kW 2P
9	98803109		96.00	91,5-96	83.90	270.00	Fire NFPA NKG125-80-250/270 -MOT 90 kW 2P
10	98803110		106.00	103-106	93.30	295.00	Fire NFPA NKG125-80-250/278 -MOT 90 kW 2P
11	98803121		117.00	110-117	102.00		Fire NFPA NKG125-80-315/295 -MOT 110 kW 2
12	98803069		132.00	126-132	116.00		Fire NFPA NKG125-80-315/310 -MOT 132 kW2P
13	98803091		153.00	147-153	143.00		Fire NFPA NKG125-80-315/328-MOT 160 kW 2P
14	98803070		95.00	64,7-95	68.22		Fire NFPA 4AE12-CI/Brz-MOT 75kW 2P
15	98737713	1,000 US GPM (227 m3/h)	90.00	72-90	259.04		Fire NFPA K P4012-7/8 -MOT 90 kW 2P
16	98737716		100.00	82-100	283.87		Fire NFPA KP 4012-7/8 -MOT 110 kW 2P
17	98737718		110.00	92-110	295.68		Fire NFPA KP4012-7/8 MOT 110kW 2P 3X380 V
18	98737719		117.00	103-117	301.48		Fire NFPA KP 4012-7/8 -MOT 132 kW 2P
19	98803092		80.00	60,5-80	69.78	259.04	Fire NFPA 5AE11-CI/Brz-MOT 75kW 2P
20	98803093		90.00	70,8-90	80.15	271.67	Fire NFPA 5AE11-CI/Brz-MOT 90kW 2P
21	98803094		100.00	72,8-100	93.19	283.87	Fire NFPA 5AE12-CI/Brz-MOT 110kW 2P
22	98803095		110.00	83,7-110	102.07	295.68	Fire NFPA 5AE12-CI/Brz -MOT 110kW 2P
23	98803096		115.00	90,1-115	107.11	301.48	Fire NFPA 5AE12-CI/Brz-MOT 110kW 2P
24	98803097		120.00	97,4-120	112.59	304.06	Fire NFPA 5AE12-CI/Br-MOT 110kW 2P
25	98803098	1,250 US GPM (283 m3/h)	80.00	62,4-80	98.44		Fire NFPA 6AE12-CI/Brz-MOT 110kW 2P
26	98803099		90.00	72,6-90	109.78		Fire NFPA 6AE12-CI/Brz-MOT 110kW 2P
27	98803100		100.00	82,9-100	123.11		Fire NFPA 6AE12-CI/Brz-MOT 132 kW 2P
28	98803111		110.00	93,2-110	135.19		Fire NFPA 6AE12-CI/Brz-MOT 160kW 2P
29	98803112		115.00	98,1-115	144.22		Fire NFPA 6AE12- CI/Br-MOT 160kW 2P

**LOCAL NON STANDARD  
PRODUCT FIRE PUMPS - ELECTRIC**

No	Electric Fire Pumps						PUMP TYPE FIRE LOCAL STANDARD
	PART NUMBER	CAPACITY	HEAD (M)	RANGE HEAD (M)	P2 9 (kW)	Imp.Dia	
1	98775197	500 US GPM (13,5 m3/h)	75,00	70-78	37,00	239,84	Fire LF 30957 MOT 37 kW 2P 3x380 V 50 hz
2	98770646		80,00	72-84	45,00	240,57	Fire LF 40959 MOT 45 kW 2P 3x380 V 50 hz
3	98775030		90,00	80-95	55,00	257,00	Fire NKG 100-65-250 MOT 55 kW 2P 3x380 V 50 hz
4	98775071		100,00	95-105	55,00	269,00	Fire NKG 100-65-250 MOT 55 kW 2P 3x380 V 50 hz
5	98775072		107,00	105-108	75,00	279,00	NKG 100-65-250 c/w Electronic Motor 75 kW (H110)
6	98775073	750 US GPM (170,25 m3/h)	75,00	68-77	55,00	236,97	Fire LF 40959 MOT 55 kW 2P 3x380 V 50 hz
7	98775074		80,00	76-81	55,00	242,92	Fire LF 40959 MOT 55 kW 2P 3x380 V 50 hz
8	98775075		90,00	85-93	75,00	254,00	Fire NKG 125-80-250 MOT 75 kW 2P 3x380 V 50 hz
9	98775076		100,00	95-105	75,00	266,00	Fire NKG 125-80-250 MOT 75 kW 2P 3x380 V 50 Hz
10	98775077	110,00	103-113	90,00	278,00	Fire NKG 125-80-315 MOT 90 kW 2P 3x380 V 50 hz	
11	98775078	1000 US GPM (227 m3/h)	80,00	60-90	75,00	259,04	Fire KP 4012-7/8 MOT 7 5kW 2P 3x380 V 50 hz
12	98772204		90,00	60-80	90,00	271,67	KP40127 c/w Electric Motor 90 kW (H:90 m)
13	98772207		100,00	80-100	90,00	283,87	Fire KP 4012-7/8 MOT 110 kW 2P 3x380 V 50 hz
14	98772221		110,00	95-115	110,00	295,68	Fire KP 4012-7/8 MOT 110 kW 2P 3x380 V 50 hz
15	98772230		115,00	115-125	110,00	301,48	Fire KP 4012-7/8 MOT 132 kW 2P 3x380 V 50 hz
16	98772238	1250 US GPM (283 m3/h)	80,00	69-90	90,00	90,00	Fire KP 4012-7/8 MOT 90 kW 2P 3x380 V 50 hz
17	98772251		90,00	80-97	110,00	110,00	Fire KP 4012-7/8 MOT 110 kW 2P 3x380 V 50 hz
18	98772255		100,00	90-108	110,00	110,00	Fire KP 4012-7/8 MOT 110 kW 2P 3x380 V 50hz
19	98772260		110,00	100-114	132,00	132,00	Fire KP 4012-7/8 MOT 132 kW 2P 3x380 V 50 hz

**STANDARD FIRE PUMPS  
COMPLIANCE TO NFPA 20 STD - DIESEL**

NO	PART NUMBER	CAPACITY	HEAD (M)	RANGE HEAD (M)	P2 kW	Imp. Dia	PUMP TYPE - NFPA 20 STD NON LISTED	
1	98798578	500 US GPM (113,5 m3/h)	78.00	73,8-78	43.70	270.00	Fire NFPA NKG125-80-250/234-JU4H-NL24	
2	98798600		96.00	93,1-96	55.00	296.00	Fire NFPA NKG125-80-250/257-JU4H-NL24	
3	98798603		107.00	105-107	61.80	308.00	Fire NFPA NKG 125-80-250/270-JU4H-NL34	
4	98798637		115.00	112-115	73.30		Fire NFPA NKG 125-80-315/278-JU4H-NL34	
5	98800569		127.00	112-127	81.00		Fire NFPA NKG125-80-315/295-JU4H-NLK4	
6	98800741		140.00	138-140	93.20		Fire NFPA NKG125-80-315/310-JU4H-NLK4	
7	98800745	750 US GPM (170,25 m3/h)	80.00	66,7-80	62.10	234.00	Fire NFPA NKG125-80-250/234 -JU4H-NL24	
8	98800897		83.10	78,1-83,1	72.00	257.00	Fire NFPA NKG125-80-250/257 -JU4H-NL34	
9	98800898		96.00	91,5-96	83.90	270.00	Fire NFPA NKG125-80-250/270-JU4H-NL34	
10	98800915		132.00	126-132	116.00		Fire NFPA NKG125-80-315/310-JU6H-NL34	
11	98800919		153.00	147-153	143.00		Fire NFPA NKG125-80-315/328 -JU6H-NLM4	
12	98800942		95.00	75,3-95	66.15		Fire NFPA 4AE12-CI/Brz -JU4H-NL34	
13	98748105		1,000 US GPM (227 m3/h)	90.00	77,2-90	75.00		Fire NFPA KP4012-7/8 -JU4H-NL34 129-94 kW
14	98748124			95.00	78-95	75.00		Fire NFPA KP 4012-7/8 -JU4H-NL34
15	98748125	100.00		82-100	90.00		Fire NFPA KP 4012-7/8 -JU4H-NLK4	
16	98748128	110.00		92-110	110.00		Fire NFPA KP 4012-7/8 -JU6H-NL34	
17	98748130	117.00		103-117	110.00		Fire NFPA KP 4012-7/8 -JU6H-NL34	
18	98800961	80.00		60,5-80	69.78	259.04	Fire NFPA 5AE11-CI/Brz-JU4H-NL34	
19	98800966	90.00		70,8-90	80.15	271.67	Fire NFPA 5AE11-CI/Brz-JU4H-NL34	
20	98800994	100.00		72,8-100	93.19	283.87	Fire NFPA 5AE12 - CI/Brz -JU4H-NLK4	
21	98800997	110.00		82-110	102.44	295.68	Fire NFPA 5AE12 - CI/Brz -JU4H-NLS4	
22	98801000	115.00		87,7-115	107.48	301.48	Fire NFPA 5AE12 - CI/Brz -JU6H-NL34	
23	98801051	120.00	94-120	113.33	304.06	Fire NFPA 5AE12 - CI/Br -JU6H-NL34		
24	98801052	1,250 US GPM (283 m3/h)	80.00	61,8-80	97.78		Fire NFPA 6AE12-CI/Brz-JU4H-NLK4	
25	98801053		90.00	71,6-90	107.41		Fire NFPA 6AE12 - CI/Brz -JU6H-NL34	
26	98801054		100.00	79,1-100	117.78		Fire NFPA 6AE12 - CI/Brz -JU6H-NL34	
27	98801060		110.00	91,4-110	135.19		Fire NFPA 6AE12 - CI/Brz -JU6H-NLM4	
28	98801059		115.00	95,9-115	141.78		Fire NFPA 6AE12 - CI/Brz -JU6H-NLM4	

**LOCAL NON STANDARD  
PRODUCT FIRE PUMPS - DIESEL**

No	Diesel Fire Pumps						PUMP TYPE FIRE LOCAL STANDARD
	PART NUMBER	CAPACITY	HEAD (M)	RANGE HEAD (M)	P2 9 (kW)	Imp.Dia	
1	98747825	500 US GPM (13,5 m3/h)	75.00	70-78	37.00	239.84	Fire LF 30957-FAW 4DX21-96 70.6 kW
2	98788384		90.00	80-95	55.00	257.00	Fire NKG 100-65-250-FAW 4DX21-96 70.6 kW
3	98747828		100.00	95-105	55.00	269.00	Fire NKG 100-65-250-FAW 4DX21-96 70.6 kW
4	98747829		110.00	105-108	75.00	279.00	Fire NKG 100-65-250 -FAW 4DX23-130 96 kW
5	98747830	750 US GPM (170,25 m3/h)	75.00	68-77	55.00	236.97	Fire LF 40959-FAW 4DX21-96 70.6 kW
6	98747831		80.00	76-81	55.00	242.92	Fire LF 40959-FAW 4DX21-96 70.6 kW
7	98747832		90.00	85-93	75.00	254.00	NKG 125-80-250-FAW 4DX23-130 96 kW
8	98747833		100.00	95-105	75.00	266.00	NKG 125-80-250-FAW 4DX23-130 96 kW
9	98747834	1000 US GPM (227 m3/h)	110.00	103-113	90.00	278.00	Fire NKG 125-80-315-FAW 6110/125 125 kW
10	98747835		80.00	60-90	75.00	259.04	Fire KP 4012-7/8-FAW 4DX23-130 96 kW
11	98747836		90.00	60-80	75.00	271.67	KP40127-FAW 4DX23-130 96 kW
12	98747837		100.00	80-100	90.00	283.87	Fire KP 4012-7/8 -FAW 6110/125 125 kW
13	98747838		110.00	95-115	110.00	295.68	Fire KP 4012-7/8 -FAW 6110/125 125 kW
14	98747839	1250 US GPM (283 m3/h)	115.00	115-125	110.00	301.48	Fire KP 4012-7/8-FAW 6110/125 125 kW
15	98747840		80.00	69-90	90.00	268.49	Fire KP 4012-7/8 -FFAW 6110/125 125 kW
16	98747861		90.00	80-97	110.00	280.24	Fire KP 4012-7/8 -FAW 6110/125 125 kW
17	98747862		100.00	90-108	110.00	291.56	Fire KP 4012-7/8 -FAW 6110/125 125 kW



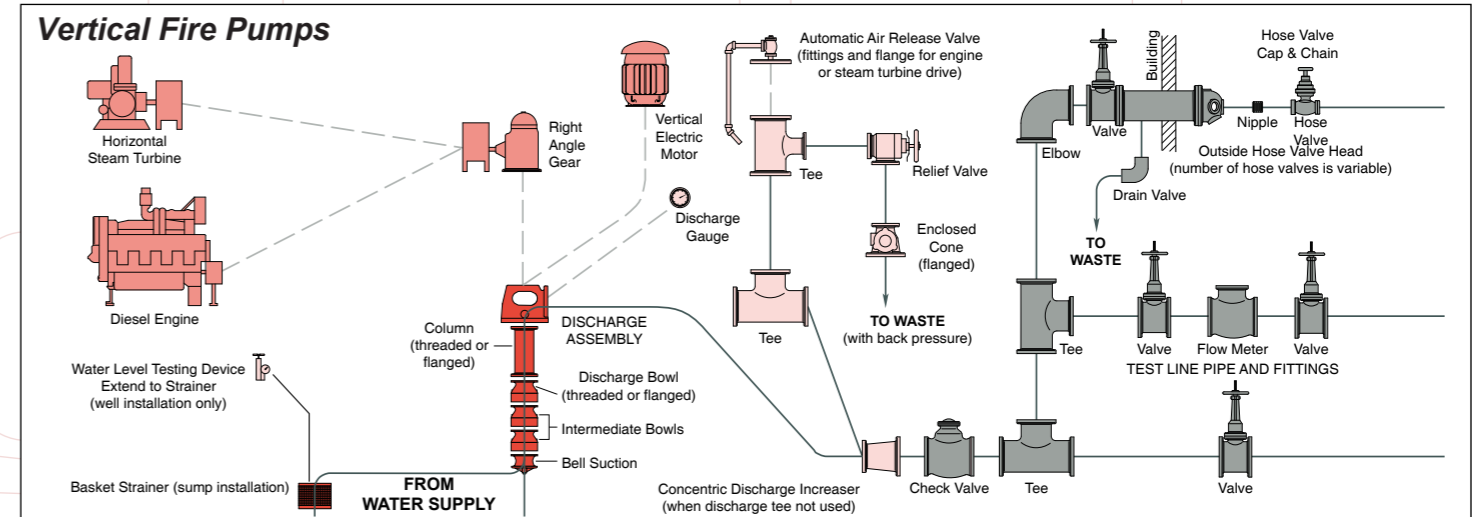
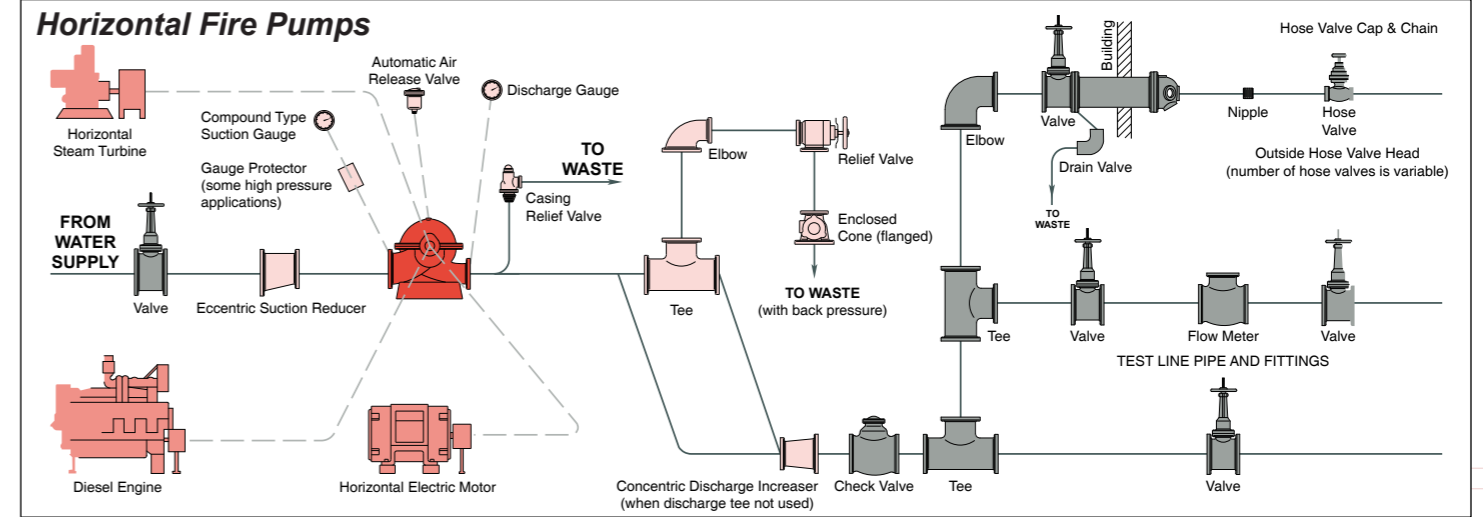
	(kW)	Product Number	LOCAL PANEL COMPLY TO NFPA
Electric	37	98780136	Panel Electric Fire Pump 37 kW
	45	96993490	Electric Fire Controller 45 kW
	55	98156246	Panel Electric Fire Pump 55 kW
	75	98770969	Panel Electric NFPA Standart 75 kW
	90	98780139	Panel Electric Fire Pump 90 kW
	110	98516835	Elect Fire Controller 110 kW
	132	98174298	Electric Control Panel 132 kW
	160	98780140	Panel Electric Fire Pump 160 kW
Jockey	4	98127412	Jockey Controller 4 kW
	5,5	98712149	Jockey Fire Controller 5.5 kW
Diesel		98664166	Diesel Fire Pump Panel 12V NFPA-20

	(kW)	Product Number	LOCAL PANEL NON NFPA
Electric	37,00	98780136	Electric Fire Pump Controller 37 kW
	45,00	96993490	Panel Electric Fire Pump 45 kW
	55,00	98156246	Panel Fire 55 kW S-D Non
	75,00	98770969	Electric Fire Controller 75 kW
	90,00	98780139	Electric Control Panel EFP 90 kW
	110,00	98516835	Control Panel Electric 110 kW
	132,00	98174298	Panel Electric Fire Pump 132 kW
	160,00	98780140	Panel Controller 160 kW/380/50 hz
Jockey	1,50	98127412	Panel Jockey Standart 1.5 kW
	5,50	98712149	Jockey Pump 5,5 kW NFPA-20
	7,50	98759893	Panel Jockey Controller 7.5 kW/380/50 hz
Diesel	125,00	98664166	Panel Control Diesel 125 kW

### PANEL DIESEL - TORNATECH



### Accessories



### PANEL ELETRIC - TORNATECH



PANEL ELECTRIC TORNATECT			
DESCRIPTION	PRODUCT NUMBER	(kW)	
Electric Control Panel GFY-380/3.7-15/3/50	98804057	15.0	
Electric Control Panel GFY-380/18.5/3/50	98804103	18.5	
Electric Control Panel GFY-380/22/3/50	98804108	22.0	
Electric Control Panel GFY-380/30/3/50	98804109	30.0	
Electric Control Panel GFY-380/37/3/50	98131004	37.0	
Electric Control Panel GFY 380/45kW/3/50	98158156	45.0	
Pump Controls GFY 380/55kW/3/50	98150811	55.0	
Electric Control Panel GFY380/75kw/3/50	98463331	75.0	
Electric Control Panel GFY-380/90/30/50	96888230	90.0	
Electric Control Panel GFY-380/110/3/50	96888213	110.0	
Pump Controls GFY 380/110kW/3/50	98277858	110.0	
Electric Control Panel GFY-380/132/3/50	98524306	132.0	
Electric Control Panel GFY 380/160/3/50	98134473	160.0	
Electric Control Panel GFY-380/185/3/50	98062687	185.0	
Electric Control Panel GFY-380/200/3/50	98805604	200.0	

PANEL DIESEL TORNATECT			
DESCRIPTION	PRODUCT NUMBER	(kW)	
Panel GFD-N-24-F-DC10 Tornatech	96993483		
Diesel Fire Control GFD-12-220	98707364		

PANEL JOCKEY TORNATECT			
DESCRIPTION	PRODUCT NUMBER	(kW)	
Jockey pump control JF3 380/1.1/3/50	98131008	1.1	
Jockey Pump JF3/380/1.5kW/3/50HZ	98158157	1.5	
Jockey Pump Controller JF3-380/2.2/3/50	98122884	2.2	
Jockey Pump control JF3-380/4kw/3/50	98391253	3.0	
Jockey Pump JF3/380/3.7KW/3/50HZ	98147083	3.7	
Control panel JF3 380/4Kw/3/50	98156309	4.0	
Jockey Pump JF3-380/5.5kw/3ph/50hz	98474889	5.5	
Jockey Pump JF3-380/7.5kw/3ph/50hz	98804058	7.5	
Pump Control JF3-380/11kw/3ph/50hz	98134474	11.0	
Jockey Pump JF3-380/15kw/3ph/50hz	98804105	15.0	

### Typical Fire Pump Operation

