



FIRE LION CATALOG

FIRE LION

A new brand produced by Arif Al-nahdi Co. Ltd. With Local Standards to cover all customer needs.



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INTRODUCTION



(Arif al-Nahdi Co. LTD.)

is a Specialist company in supplying, assembling and manufacturing of safety systems with its Head Quarter at Riyadh, KSA, is one of the largest Fire Fighting Equipment facilities in the Region and has many branches over KSA.

Our vision to develop with Wisdom and Prosper in Harmony, and continue to be the leader in the Fire Protection industry providing excellent services and superior products for many years to come.

SYSTEM TECHNOLOGY

FIRE LION Fire Pump System Technology

Being Local Specialist Manufacture gives us the Opportunity and Privilege to Develop an Innovative Pump Assembly Units, and Tailor Pump Packages to clients' specific needs.

FIRE LION Highly Skilled Team in Assembly and Pump Packages Testing....Succeeded developing **FIRE LION** Pump Pre-Fabricated Fire Pump Skids, where this developed technology assure providing Compact Design Pump Sets, easily to Handle ,Install,& Maintain ,where all Pumping Elements, Drivers, Controllers are all skid Mounted, Pre-piped, Wired, & Factory tested.

FIRE LION Pump Standard Packages included wide variety of Fire Pump Units start from **50** GPM size up to **1000** GPM, with **pressure range to 7 bar.**

This wide Range of Pumping & Head Characteristics has Made “ **FL** Pump ” suitable in various market sectors such as; Government Buildings, Commercial, Residential Towers, Warehouses and Factories etc.



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CHAPTER 1

FIRE PUMPS

FIRE LION

Pump - E.D.J Model

Consist of Main pump driven by electric Motor, stand by Diesel pump driven by Diesel Engine, & Vertical Jockey pump that are all assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. available Flow Capacities : (120, 150, 250, 350, 500, 750, 1000) GPM.



FIRE LION Skid Model - E.D.J

Model	(GPM)	Motor (HP)	Diesel (HP)	Jockey (HP)	SUCTION	HEADER
EDJ	120	10	12	3	3"	3"
EDJ	150	15	12	3	3"	3"
EDJ	250	25	27	3	4"	4"
EDJ	350	30	33	3	4"	4"
EDJ	500	50	46	5.5	6"	6"
EDJ	750	75	61	7.5	6"	6"
EDJ	1000	100	75	10	8"	8"



FIRE LION

Pump - E.J Model

Consist of Main pump driven by electric Motor & Vertical Jockey pump. All are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. available Flow Capacities : (120, 150, 250, 350, 500, 750, 1000) GPM.

FIRE LION Skid Model - E.J

Model	(GPM)	Motor (HP)	Jockey (HP)	HEADER
EJ	120	10	3	2.5"
EJ	150	15	3	2.5"
EJ	250	25	3	4"
EJ	350	30	3	4"
EJ	500	50	5.5	6"
EJ	750	75	7.5	6"
EJ	1000	100	10	8"



FIRE LION

Pump - D.J Model

Consist of Main pump driven by Diesel Engine & Vertical Jockey pump. All are assembled with discharge line accessories, as well as connected with Skid Mounted Control Panel. available Flow Capacities : (50, 80, 100, 120, 150, 250, 350, 500, 750, 1000) GPM.

FIRE LION Skid Model - D.J

Model	(GPM)	Diesel (HP)	Jockey (HP)	HEADER
DJ	50	10	3	2"
DJ	80	10	3	2"
DJ	100	10	3	2.5"
DJ	120	12	3	2.5"
DJ	150	12	3	2.5"
DJ	250	27	3	4"
DJ	350	33	3	4"
DJ	500	46	5.5	6"
DJ	750	61	7.5	6"
DJ	1000	75	10	8"



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CHAPTER 2

PUMPS

DESCRIPTION

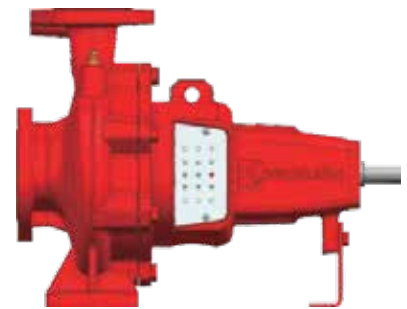
- ◆ According to NFPA20, centrifugal shall be of the overhung impeller design with close or separate couple end suction type
- ◆ Pump capacities are based on the calculate system demand
- ◆ Fire pump shutoff head should not exceed 140% of the nominal value
- ◆ Recommended the maximum system demand flow correlate to a point on pump curve between 90% to 140% of the pump capacity

TECHNICAL SHEET/

Model	PSM		
Capacity	0-1000	m ³ /h	
Head	0-164	m	
DN	32-150	mm	
Speed	3500	rpm	
T max	120	°C	
Power	1.5-315	kW	
Casing	Grey cast iron		
Impeller	Cast iron/AISI 304/Brass		
Shaft	AISI 304		
Shaft seal	Mechanical Seal		
Bearing	Grease lubrication rolling bearing		

Electric

Electric pump to primarily provide flow and pressure in the system

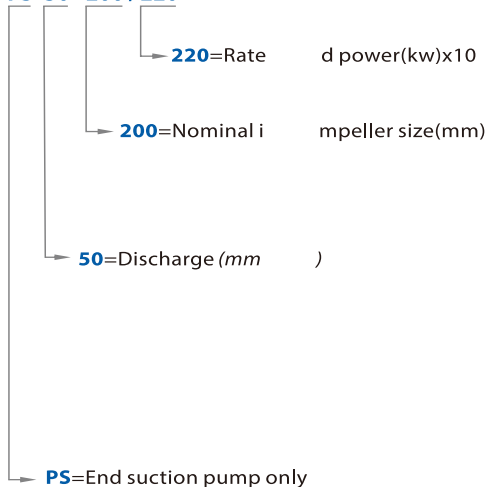


PS(M)
n ≈ 3500 rpm

MODEL CODE/

For example/

PS 50 - 200 / 220



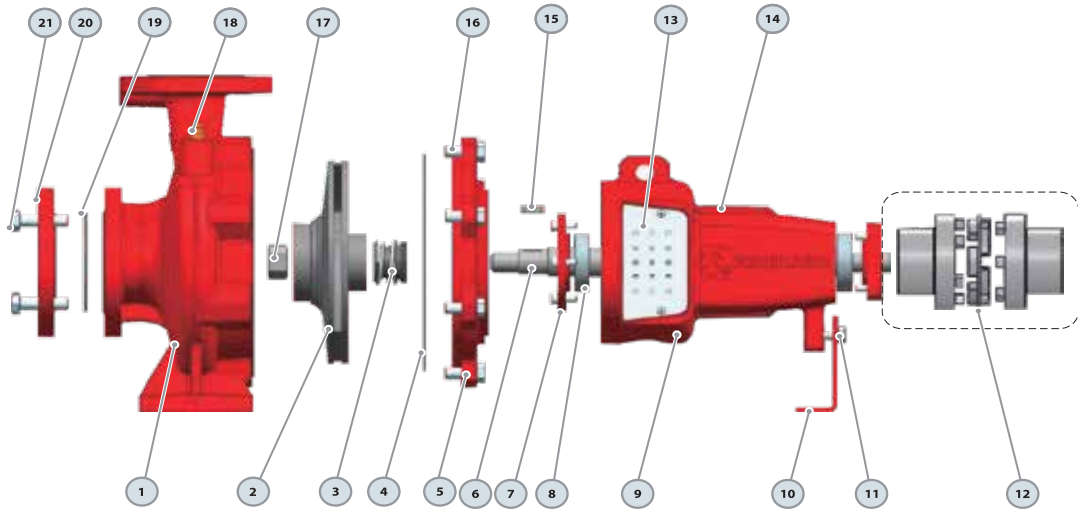
TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN mm	Implr dia. mm	Power kw hp		Q=DELIVERY/ H=Head (m)														
					us gpm	25	50	75	100	120	150	200	250	300	350	400	450	500	600
					l/min	95	190	283	383	450	567	750	950	1133	1317	1517	1700	1900	2267
					m³/h	0	5.7	11.4	17	23	27	34	45	57	68	79	91	102	114
PS 32-200/55	50x32	173	5.5	7.5	60	59.5	58	54	50	46	-	-	-	-	-	-	-	-	-
PS 32-200/75	50x32	191	7.5	10	75	74.5	74	72.5	70	67.3	62	-	-	-	-	-	-	-	-
PS 32-200/75H(92)	50x32	197	9.2	12.5	79	78.5	78	76.5	73.5	71.3	64.5	-	-	-	-	-	-	-	-
PS 32-200/110	50x32	208	11	15	90	88	84.3	80	76	72	66	-	-	-	-	-	-	-	-
PS 32-200/150	50x32	214	15	20	97	95	91.5	87.2	83	79	73.5	-	-	-	-	-	-	-	-
PS 40-200/110	65x40	191	11	15	78	-	-	75.5	74	72	69	59	38	-	-	-	-	-	-
PS 40-200/150	65x40	208	15	20	88.5	-	-	83.5	81.5	79	76	67	47	-	-	-	-	-	-
PS 40-200/185	65x40	214	18.5	25	94	-	-	89	87	84.5	81.5	73	51	-	-	-	-	-	-
PS 40-250/185	65x40	216	18.5	25	95	-	-	95	94	92.5	88	74	-	-	-	-	-	-	-
PS 40-250/220	65x40	228	22	30	106	-	-	105	104	103.5	99	86	-	-	-	-	-	-	-
PS 40-250/300	65x40	241	30	40	120	-	-	120	119	117	116	108	-	-	-	-	-	-	-
PS 40-250/370	65x40	267	37	50	144	-	-	144	143	142	139	134	-	-	-	-	-	-	-
PS 40-250/450	65x40	282	45	60	160	-	-	160	160	159	158	154	-	-	-	-	-	-	-
PS 50-200/150	65x50	190	15	20	68.5	-	-	-	-	65	62	58	53	45	-	-	-	-	-
PS 50-200/185	65x50	195	18.5	25	79	-	-	-	-	77	74	71	66	59	47	-	-	-	-
PS 50-200/220	65x50	208	22	30	89.5	-	-	-	-	88	85	81.5	76	68	57	-	-	-	-
PS 50-200/300	65x50	214	30	40	95.5	-	-	-	-	92	90	87	81	74	63	-	-	-	-
PS 50-250/370	65x50	236	37	50	114	-	-	-	-	111	108	104	98	92	84	-	-	-	-
PS 50-250/450	65x50	254	45	60	132	-	-	-	-	129	125.5	122	117	110	102	-	-	-	-
PS 50-250/550	65x50	267	55	75	146	-	-	-	-	143	140	136	132	125	116	-	-	-	-
PS 50-250/750	65x50	282	75	100	164	-	-	-	-	162	158	154	148	141	134	-	-	-	-
PS 65-200/220	80x65	187	22	30	64.8	-	-	-	-	-	-	63.5	62	61	58.5	56	52.5	-	-
PS 65-200/300	80x65	203	30	40	80	-	-	-	-	-	-	79	78	77	74.5	72	70	59	-
PS 65-200/370	80x65	214	37	50	92	-	-	-	-	-	-	89.5	88.5	87	85	83	80	69	-

MODEL	DN mm	Implr dia. mm	Power kw hp		Q=DELIVERY/ H=Head (m)																	
					us gpm	250	400	500	600	750	850	950	1000	1250	1350	1500	1750	2000	2500	3000	3500	4500
					l/min	950	1517	1900	2267	2833	3217	3600	3783	4733	5100	5683	6617	7567	9467	11350	13250	17033
					m³/h	0	57	91	114	136	170	193	216	227	284	306	341	397	454	568	681	795
PS 65-250/450	80x65	217	45	60	102	98	94.5	90	83	-	-	-	-	-	-	-	-	-	-			
PS 65-250/550	80x65	241	55	75	122	120	114.5	111	104	85	-	-	-	-	-	-	-	-	-			
PS 65-250/750	80x65	265	75	100	141	141	134.5	132	123	105	86	64	-	-	-	-	-	-	-			
PS 65-250/900	80x65	282	90	125	151	150	144.5	141	133	115	95	74	-	-	-	-	-	-	-			
PS 80-200/450	100x80	205	45	60	88	86.7	86	84	80	72	62	49	-	-	-	-	-	-	-			
PS 80-200/550	100x80	215	55	75	94.5	94.5	94.5	92	89	82	76	66	-	-	-	-	-	-	-			
PS 80-200/750	100x80	230	75	100	108.5	108.5	108.5	106	103	96.5	90	80	-	-	-	-	-	-	-			
PS 80-250/550	100x80	224	55	75	98	97	95.6	95	92	86	78	67	-	-	-	-	-	-	-			
PS 80-250/750	100x80	245	75	100	124	123	121.6	119	116	110	103	94.5	89	-	-	-	-	-	-			
PS 80-250/900	100x80	265	90	125	144	143	141.6	140	137	130	122	114	108	-	-	-	-	-	-			
PS 80-250/1100	100x80	272	110	150	153	152	150.6	149	146	140	132	123	118	-	-	-	-	-	-			
PS 100-200/550	125x100	200	55	75	77	76	75.5	76	75	73	72	70	70	62.3	59	-	-	-	-			
PS 100-200/750	125x100	216	75	100	91	91	90.5	89.7	88	86	84	82	81	71.7	68.5	56	-	-	-			
PS 100-200/900	125x100	224	90	125	100	100	99.9	98	97	95	93	91	90	80.7	77.5	65	-	-	-			
PS 100-250/900	125x100	249	90	125	118	-	-	116	115.5	114	112	111	110	104	102	95	-	-	-			
PS 100-250/1100	125x100	266	110	150	138	-	-	136	135	133	132	131	130	124	121	114	-	-	-			
PS 100-250/1320	125x100	272	132	180	148	-	-	146	145	144	142	141	140	134	132	125	-	-	-			

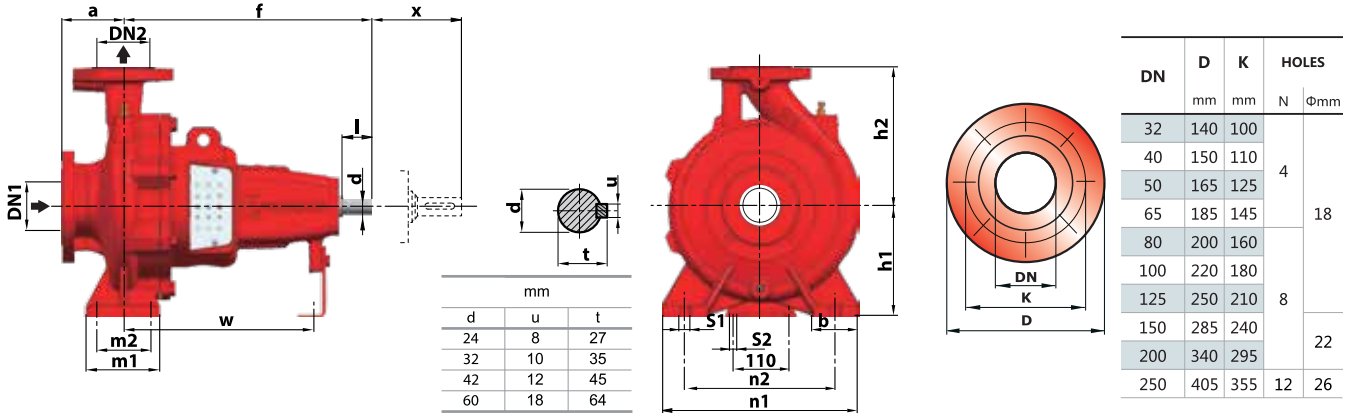
MATERIAL DESCRIPTION



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Pump Case	Cast iron	8	Bearing	Ball Bearing	15	Impeller Key	Iron
2	Impeller	SS304/Cast iron	9	Support Case	Cast iron	16	Connection Bolt	Steel
3	Mechanical Seal	SIC/Carbon/SS304	10	Support Foot	Iron	17	Impeller Nut	Galvanized Steel
4	O-ring	Rubber	11	Foot Bolt	Steel	18	Release Valve	Brass
5	Connection	Cast iron	12	Coupling(Optional)	Steel	19	Gasket	Rubber
6	Shaft	SS304/45# Steel	13	Case Cover	SS304	20	Counter Flange	Galvanized Cast iron
7	Bearing Cover	Cast iron	14	Nameplate	Aluminum	21	Flange Bolt	Steel

DIMENSIONS AND WEIGHT

PS(M) $n \approx 3500$ rpm



DN	D mm	K mm	HOLES	
			N	Φmm
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	22
100	220	180		
125	250	210		
150	285	240		
200	340	295	12	26
250	405	355		

MODEL	DIMENSIONS mm																	kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	d	l	
32-200	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	35
40-200	65	40	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	58
40-250	65	40	125	500	200	160	65	125	95	345	280	14	14	370	140	32	80	82
50-200	65	50	100	360	180	180	65	125	95	320	250	14	14	260	100	24	50	50
50-250	65	50	125	500	225	280	65	125	95	345	280	14	14	370	140	32	80	90
65-200	80	65	100	470	200	250	80	160	120	360	280	18	14	340	140	32	80	71
65-250	80	65	125	470	225	280	80	160	120	360	280	18	14	340	140	32	80	98
80-200	100	80	100	470	200	280	80	160	120	400	315	18	14	340	140	32	80	79
80-250	100	80	125	470	250	315	80	160	120	400	315	18	14	340	140	24	50	118
100-200	125	100	125	470	225	280	80	160	120	400	315	18	14	340	140	32	80	88
100-250	125	100	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	116

TECHNICAL SHEET/

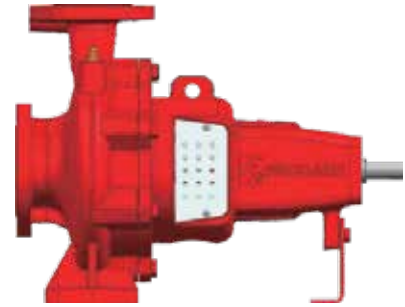
Model	PSD	
Capacity	0-1000	m ³ /h
Head	0-164	m
DN	32-150	mm
Speed	3000	rpm
T max	120	°C
Power	6.3-300	kW
Casing	Grey cast iron	
Impeller	Cast iron/AISI 304/Brass	
Shaft	AISI 304	
Shaft seal	Mechanical Seal	
Bearing	Grease lubrication rolling bearing	

DESCRIPTION/

- ◆ Diesel engines have proven to be very reliable and effective for driving fire pumps
- ◆ Diesel engines are currently the only type of internal combustion engine permitted by NFPA 20
- ◆ Each engine shall be provided with two storage battery units according to NFPA20
- ◆ Diesel engines for fire pump is of the compression ignition type
- ◆ Advanced direct injection and combustion system.

Diesel

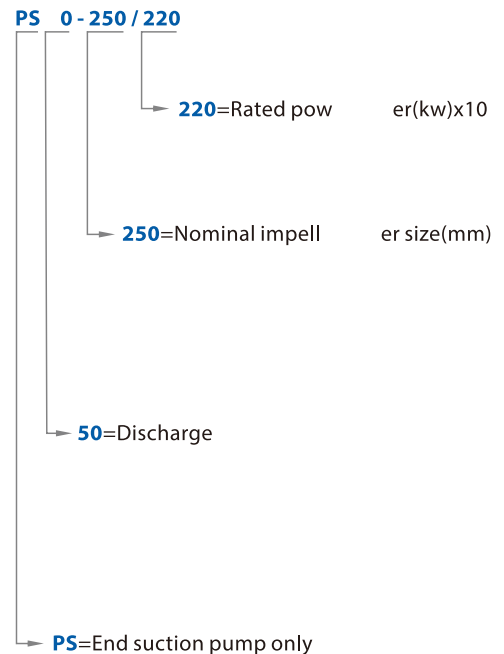
Diesel pump as standby provider flow and pressure in the system



PS(D)
n≈2900 rpm

MODEL CODE/

For example/



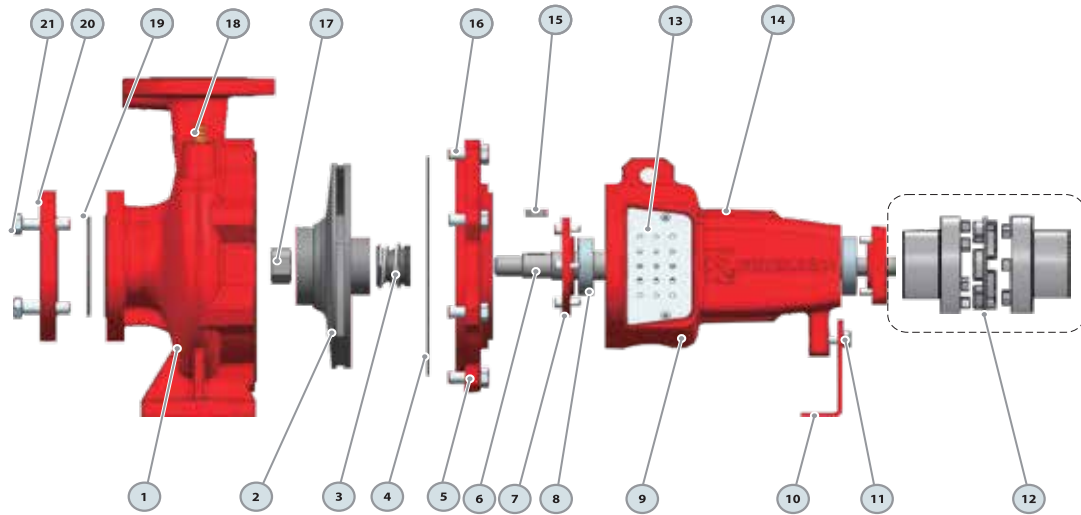
TECHNICAL DATA

50 Hz n=3000 1/min

MODEL	DN mm	Implr dia. mm	Power kw hp		Q=DELIVERY/ H=Head (m)															
					us gpm	0	25	50	75	100	120	150	200	250	300	350	400	450	500	600
					l/min	0	95	190	283	383	450	567	750	950	1133	1317	1517	1700	1900	2267
PS 32-250/55	50x32	208	6.3	8.6	60	59.5	58	54	50	46	-	-	-	-	-	-	-	-		
PS 32-250/75	50x32	230	7.2	10	75	74.5	74	72.5	70	67.3	62	-	-	-	-	-	-	-		
PS 32-250/75H(92)	50x32	237	8.2	12	79	78.5	78	76.5	73.5	71.3	64.5	-	-	-	-	-	-	-		
PS 32-250/110	50x32	250	8.2	12	90	88	84.3	80	76	72	66	-	-	-	-	-	-	-		
PS 32-250/150	50x32	258	20	27	97	95	91.5	87.2	83	79	73.5	-	-	-	-	-	-	-		
PS 40-250/110	65x40	230	8.2	12	78	-	-	75.5	74	72	69	59	38	-	-	-	-	-		
PS 40-250/150	65x40	250	20	27	88.5	-	-	83.5	81.5	79	76	67	47	-	-	-	-	-		
PS 40-250/185	65x40	258	20	27	94	-	-	89	87	84.5	81.5	73	51	-	-	-	-	-		
PS 40-315/185	65x40	260	20	27	95	-	-	95	94	92.5	88	74	-	-	-	-	-	-		
PS 40-315/220	65x40	275	24	32	106	-	-	105	104	103.5	99	86	-	-	-	-	-	-		
PS 40-315/300	65x40	290	28	38	120	-	-	120	119	117	116	108	-	-	-	-	-	-		
PS 40-315/370	65x40	322	42	58	144	-	-	144	143	142	139	134	-	-	-	-	-	-		
PS 40-315/450	65x40	340	45	61	160	-	-	160	160	159	158	154	-	-	-	-	-	-		
PS 50-250/150	65x50	228	20	27	68.5	-	-	-	-	-	65	62	58	53	45	-	-	-		
PS 50-250/185	65x50	235	20	27	79	-	-	-	-	-	77	74	71	66	59	47	-	-		
PS 50-250/220	65x50	250	24	32	89.5	-	-	-	-	-	88	85	81.5	76	68	57	-	-		
PS 50-250/300	65x50	258	28	38	95.5	-	-	-	-	-	92	90	87	81	74	63	-	-		
PS 50-315/370	65x50	284	42	58	114	-	-	-	-	-	111	108	104	98	92	84	-	-		
PS 50-315/450	65x50	306	45	61	132	-	-	-	-	-	129	125.5	122	117	110	102	-	-		
PS 50-315/550	65x50	322	55	75	146	-	-	-	-	-	143	140	136	132	125	116	-	-		
PS 50-315/750	65x50	340	75	100	164	-	-	-	-	-	162	158	154	148	141	134	-	-		
PS 65-250/220	80x65	225	24	32	64.8	-	-	-	-	-	-	-	63.5	62	61	58.5	56	52.5		
PS 65-250/300	80x65	244	28	38	80	-	-	-	-	-	-	-	79	78	77	74.5	72	70		
PS 65-250/370	80x65	258	42	58	92	-	-	-	-	-	-	-	89.5	88.5	87	85	83	80		

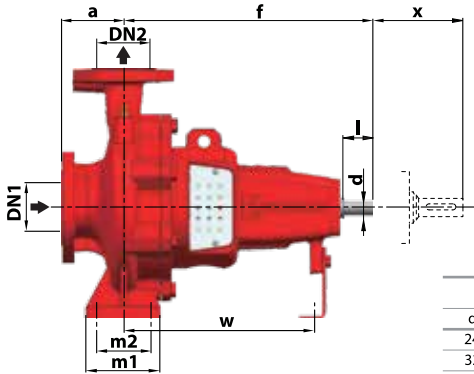
MODEL	DN mm	Implr dia. mm	Power kw hp		Q=DELIVERY/ H=Head (m)																		
					us gpm	0	250	400	500	600	750	850	950	1000	1250	1350	1500	1750	2000	2500	3000	3500	4500
					l/min	0	950	1517	1900	2267	2833	3217	3600	3783	4733	5100	5683	6617	7567	9467	11350	13250	17033
PS 65-315/450	80x65	262	45	61	102	98	94.5	90	83	-	-	-	-	-	-	-	-	-	-	-	-		
PS 65-315/550	80x65	290	55	75	122	120	114.5	111	104	85	-	-	-	-	-	-	-	-	-	-	-		
PS 65-315/750	80x65	317	75	100	141	141	134.5	132	123	105	86	64	-	-	-	-	-	-	-	-	-		
PS 65-315/900	80x65	328	90	125	151	150	144.5	141	133	115	95	74	-	-	-	-	-	-	-	-	-		
PS 80-250/450	100x80	240	45	61	88	86.7	86	84	80	72	62	49	-	-	-	-	-	-	-	-	-		
PS 80-250/550	100x80	258	55	75	94.5	94.5	92	89	82	76	66	-	-	-	-	-	-	-	-	-	-		
PS 80-250/750	100x80	276	75	100	108.5	108.5	106	103	96.5	90	80	-	-	-	-	-	-	-	-	-	-		
PS 80-315/550	100x80	270	55	75	98	97	95.6	95	92	86	78	67	-	-	-	-	-	-	-	-	-		
PS 80-315/750	100x80	295	75	100	124	123	121.6	119	116	110	103	94.5	89	-	-	-	-	-	-	-	-		
PS 80-315/900	100x80	320	90	125	144	143	141.6	140	137	130	122	114	108	-	-	-	-	-	-	-	-		
PS 80-315/1100	100x80	328	110	150	153	152	150.6	149	146	140	132	123	118	-	-	-	-	-	-	-	-		
PS 100-250/550	125x100	240	55	75	77	76	75.5	76	75	73	72	70	70	62.3	59	-	-	-	-	-	-		
PS 100-250/750	125x100	257	75	100	91	91	90.5	89.7	88	86	84	82	81	71.7	68.5	56	-	-	-	-	-		
PS 100-250/900	125x100	270	90	125	100	100	99.5	98	97	95	93	91	90	80.7	77.5	65	-	-	-	-	-		
PS 100-315/900	125x100	300	90	125	118	-	-	116	115.5	114	112	111	110	104	102	95	-	-	-	-	-		
PS 100-315/1100	125x100	320	110	150	138	-	-	136	135	133	132	131	130	124	121	114	-	-	-	-	-		
PS 100-315/1320	125x100	328	125	170	148	-	-	146	145	144	142	141	140	134	132	125	-	-	-	-	-		

MATERIAL DESCRIPTION

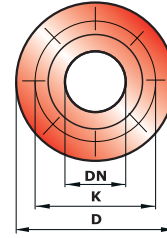
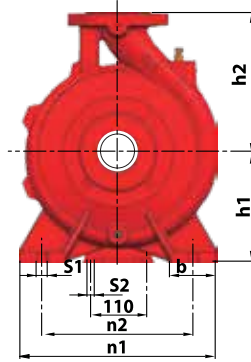


No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Pump Case	Cast iron	8	Bearing	Ball Bearing	15	Impeller Key	Iron
2	Impeller	SS304/Cast iron	9	Support Case	Cast iron	16	Connection Bolt	Steel
3	Mechanical Seal	SiC/Carbon/SS304	10	Support Foot	Iron	17	Impeller Nut	Galvanized Steel
4	O-ring	Rubber	11	Foot Bolt	Steel	18	Release Valve	Brass
5	Connection	Cast iron	12	Coupling(Optional)	Steel	19	Gasket	Rubber
6	Shaft	SS304/45# Steel	13	Case Cover	SS304	20	Counter Flange	Galvanized Cast iron
7	Bearing Cover	Cast iron	14	Nameplate	Aluminum	21	Flange Bolt	Steel

DIMENSIONS AND WEIGHT



mm		
d	u	t
24	8	27
32	10	35
42	12	45
60	18	64



PS(D) n≈2900 rpm

DN	D mm	K mm	HOLES	
			N	Φmm
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	22
100	220	180		
125	250	210		
150	285	240		
200	340	295	12	26
250	405	355		

MODEL	DIMENSIONS mm																	kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	d	l	
32-250	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	35
40-250	65	40	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	58
40-315	65	40	125	500	200	160	65	125	95	345	280	14	14	370	140	32	80	82
50-250	65	50	100	360	180	180	65	125	95	320	250	14	14	260	100	24	50	50
50-315	65	50	125	500	225	280	65	125	95	345	280	14	14	370	140	32	80	90
65-250	80	65	100	470	200	250	80	160	120	360	280	18	14	340	140	32	80	71
65-315	80	65	125	470	225	280	80	160	120	360	280	18	14	340	140	32	80	98
80-250	100	80	100	470	200	280	80	160	120	400	315	18	14	340	140	32	80	79
80-315	100	80	125	470	250	315	80	160	120	400	315	18	14	340	140	24	50	118
100-250	125	100	125	470	225	280	80	160	120	400	315	18	14	340	140	32	80	88
100-315	125	100	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	116



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CHAPTER 3

CONNECTED PUMPS

DESCRIPTION

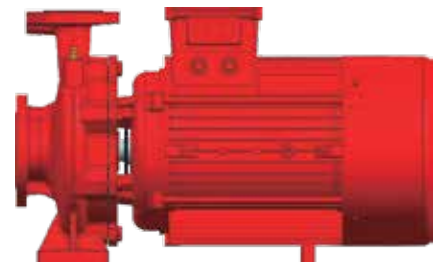
- ◆ According to NFPA20, centrifugal shall be of the overhung impeller design with close or separate couple end suction type
- ◆ Pump capacities are based on the calculate system demand
- ◆ Fire pump shutoff head should not exceed 140% of the nominal value
- ◆ Recommended the maximum system demand flow correlate to a point on pump curve between 90% to 140% of the pump capacity

TECHNICAL SHEET/

Model	PST	
Capacity	0-400	m ³ /h
Head	0-151	m
DN	32-125	mm
Speed	3500	rpm
T max	120	°C
Power	0.75-160	kW
Voltage	220/380/660	V
HZ	60	
Class	Class F/IP 55	
Duty	S1 continuous	
Casing	Grey Cast iron	
Impeller	Ca t iron/AISI 304/Brass	
Shaft	AISI304	
Shaft seal	Mechanical Seal	
Bearing	Grease lubrication rolling bearing	

Electric

Electric pump to primarily provide flow and pressure in the system



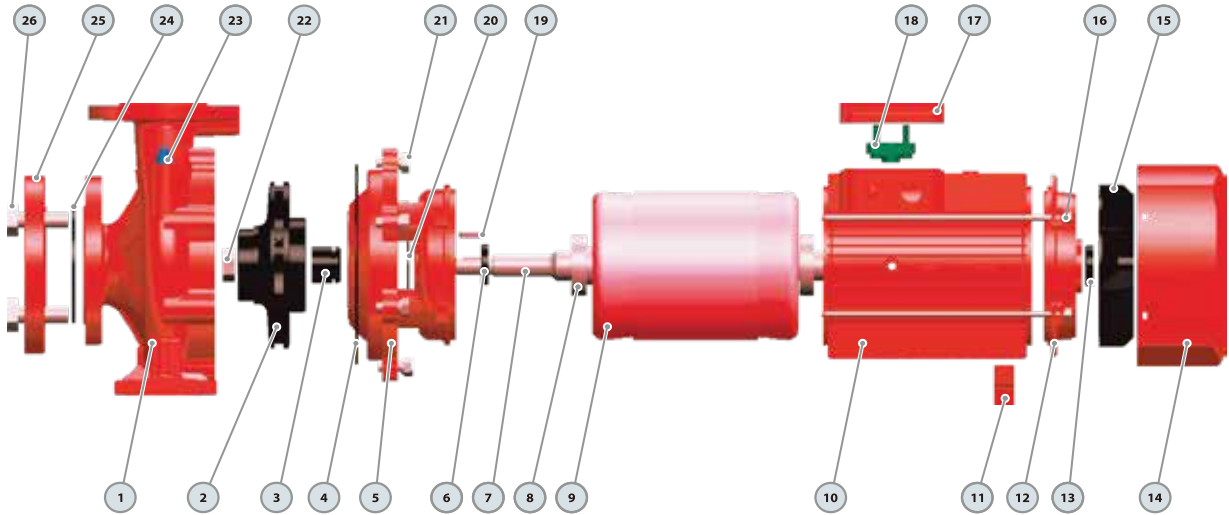
PST
n≈3500 rpm

TECHNICAL DATA

60 Hz n=3500 1/min

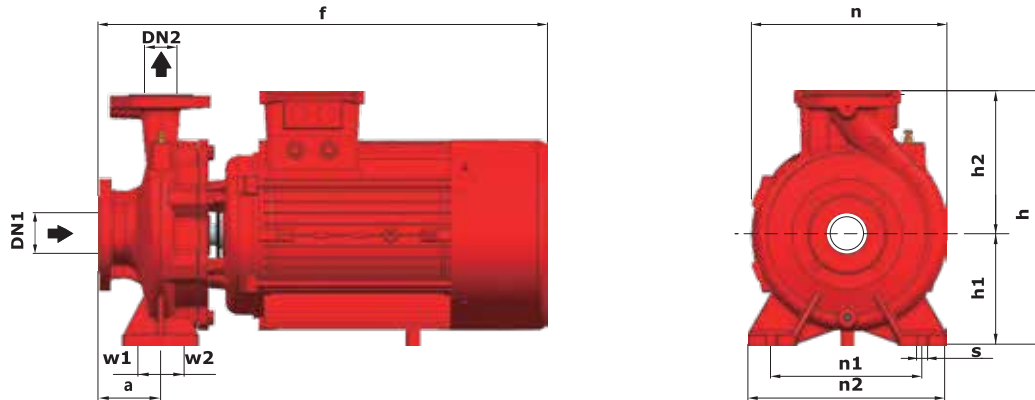
MODEL	DN mm	Power kw hp		Q=DELIVERY/ H=Head (m)															
				us	25	50	75	100	120	150	200	250	300	350	400	450	500	600	
				gpm	0	95	190	283	383	450	567	750	950	1133	1317	1517	1700	1900	2267
				l/min	0	5.7	11.4	17	23	27	34	45	57	68	79	91	102	114	136
PST 32-200/55	50x32	5.5	7.5	60	59.5	58	54	50	46	-	-	-	-	-	-	-	-		
PST 32-200/75	50x32	7.5	10	75	74.5	74	72.5	70	67.3	62	-	-	-	-	-	-	-		
PST 32-200/92	50x32	9.2	12.5	79	78.5	78	76.5	73.5	71.3	64.5	-	-	-	-	-	-	-		
PST 32-200/110	50x32	11	15	90	88	84.3	80	76	72	66	-	-	-	-	-	-	-		
PST 32-200/150	50x32	15	20	97	95	91.5	87.2	83	79	73.5	-	-	-	-	-	-	-		
PST 32-200/55D	50x32	5.5	7.5	79.5	77	73	67	58	42	-	-	-	-	-	-	-	-		
PST 32-200/75D	50x32	7.5	10	95	93	89	84	78	70	46	-	-	-	-	-	-	-		
PST 40-200/92	65x40	9.2	12.5	64	-	-	60	57	55	51	42	-	-	-	-	-	-		
PST 40-200/110	65x40	11	15	78	-	-	75.5	74	72	69	59	38	-	-	-	-	-		
PST 40-200/150	65x40	15	20	88.5	-	-	83.5	81.5	79	76	67	47	-	-	-	-	-		
PST 40-200/185	65x40	18.5	25	94	-	-	89	87	84.5	81.5	73	51	-	-	-	-	-		
PST 50-200/150	65x50	15	20	68.5	-	-	-	-	-	65	62	58	53	45	-	-	-		
PST 50-200/185	65x50	18.5	25	79	-	-	-	-	-	77	74	71	66	59	47	-	-		
PST 50-200/220	65x50	22	30	89.5	-	-	-	-	-	88	85	81.5	76	68	57	-	-		
PST 65-200/220	80x65	22	30	64.8	-	-	-	-	-	-	-	63.5	62	61	58.5	56	52.5		
PST 65-200/300	80x65	30	40	80	-	-	-	-	-	-	-	79	78	77	74.5	72	70		
PST 65-200/370	80x65	37	50	92	-	-	-	-	-	-	-	89.5	88.5	87	85	83	80		

MATERIAL DESCRIPTION



No.	Description	Material	No.	Description	Material	No.	Description	Material
1	Pump Case	Cast iron	10	Motor Case	Aluminum	19	Impeller Key	Iron
2	Impeller	SS304/Cast iron	11	Support Foot	Plastic	20	Water Deflector	Rubber
3	Mechanical Seal	SiC/Carbon/SS304	12	Back Cover	Cast iron	21	Connection Bolt	Steel
4	O-ring	Rubber	13	Reinforced Seal	Rubber	22	Impeller Nut	Galvanized Steel
5	Connection	Cast iron	14	Fan Cover	Aluminum	23	Release Valve	Brass
6	Reinforced Seal	Rubber	15	Fan	Plastic	24	Gasket	Rubber
7	Shaft	SS304/45# Steel	16	Through Bolt	Steel	25	Counter Flange	Galvanized Cast iron
8	Bearing	Ball Bearing	17	Terminal Box	Aluminum	26	Flange Bolt	Steel
9	Wound Stator/Rotor	Silicon Steel/Copper	18	Terminal Board	Plastic			

DIMENSIONS AND WEIGHT



MODEL	DIMENSIONS/ mm													kg
	DN1	DN2	a	f	h	h1	h2	n	n1	n2	w1	w2	s	
PST 32-200/55	50	32	88	590	405	186	219	333	250	328	49	49	16	66
PST 32-200/75														73
PST 32-200/92														80
PST 32-200/110			95											
PST 32-200/150			125											
PST 32-200/55D-75D			160	610	362	162	200	330	216	280	37	37	14	73/80
PST 40-200/92	65	40	94	712	415	186	229	327	250	327	49	49	15	100
PST 40-200/110														116
PST 40-200/150														146
PST 40-200/185														155
PST 50-200/150-185-220	80	65	102	720	416	186	230	330	250	327				148/153/183



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CHAPTER 4

JOCKEY PUMPS



DESCRIPTION/

- ◆ New design noiseless, energy-saving multistage pump
- ◆ Ensuring durability and easy in operation
- ◆ A wide range of products will meet every requirement
- ◆ YE3 high efficient motor, with protection IP55 class F
- ◆ Impeller in techno-polimer
- ◆ Suction and discharge port in cast iron G20 thread
- ◆ Quality NSK bearing, wear resistance mechanical seal
- ◆ Compact and proportional design

APPLICATIONS

The high efficiency and noiseless operation which allows these pumps to be used in conditions households, irrigation, car washes, fire protection systems, air conditioning and lifting installations water pressure in the network.

USING LIMITS/

- ◆ Liquid temperature between **-10°C** and **+120°C**
- ◆ Ambient temperature between **-10°C** and **+50°C**

TECHNIC AL SHEET/

Model	PV
Capacity	0-48 m ³ /h
Head	0-224 m
DN	25-65 mm
Speed	3500 rpm
T max	120 °C
Power	1.1-11 kW
Voltage	220/380/400/440 V
HZ	60
Class	Class F
IP	IP 55
Duty	S1 continuous
Casing	Grey Cast iron/
Impeller	Plastic
Shaft	SS304
Shaft seal	Mechanical Seal

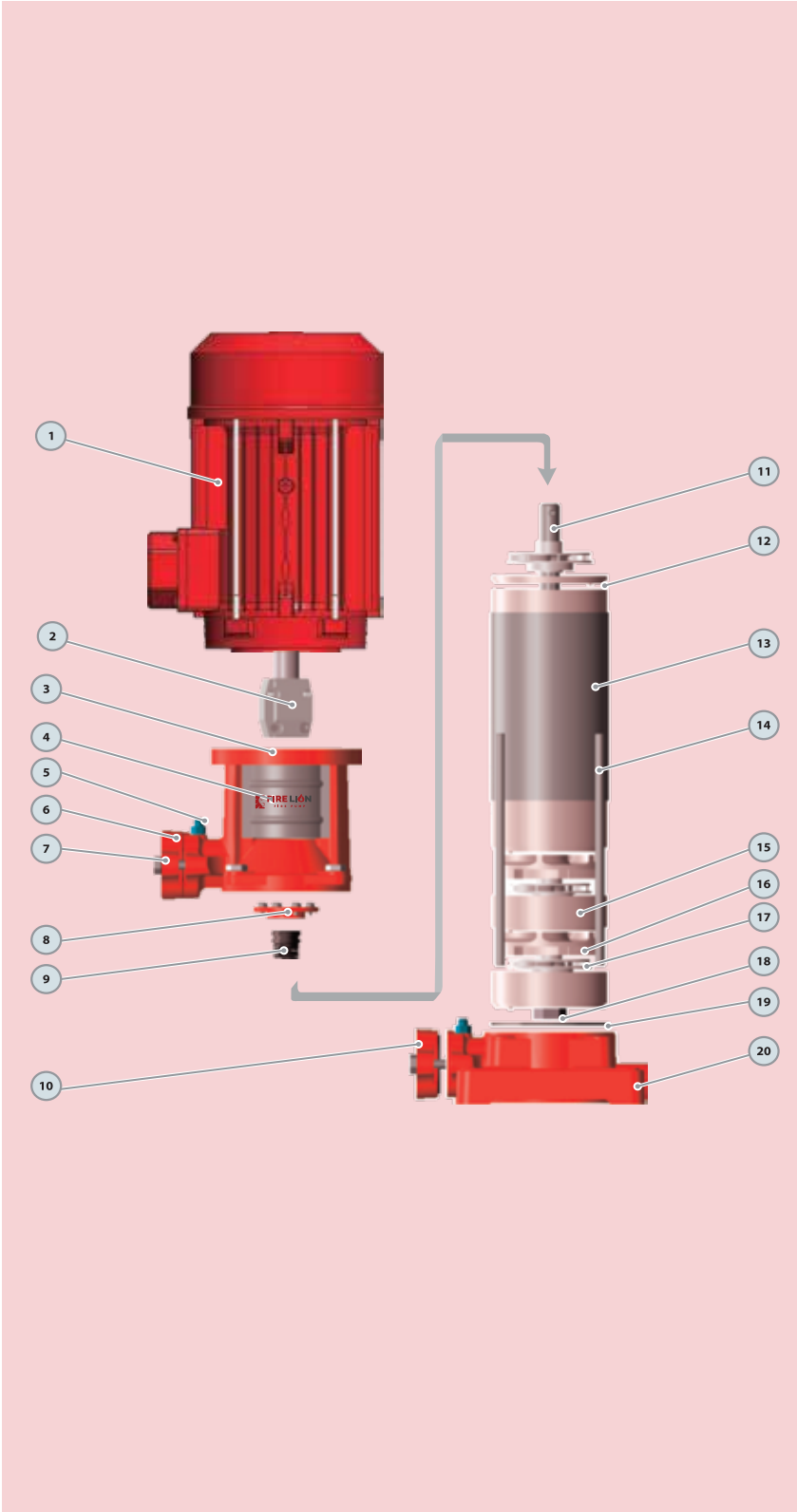
TECHNICAL DATA

60 Hz n=3500 1/min

MODEL	DN mm	Power kw hp		Q=DELIVERY/																			
				us	5	11	13	16	19	21	24	26	29	32	37	42	48	53	58	63	69	74	79
				gpm	20	40	50	60	70	80	90	100	110	120	140	160	180	200	220	240	260	280	300
				l/min	0	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18
				H=Head (m)																			
PV 4x4/1.5	25x25	1.1	1.5	52	49	46	44	41	39	37	33	30	27	23									
PV 4x6/2	25x25	1.5	2	77	74	69	66	63	58	55	50	45	40	34									
PV 4x8/3	25x25	2.2	3	104	99	92	88	84	78	73	66	60	53	45									
PV 4x10/4	25x25	3	4	129	124	116	110	104	97	91	83	75	66	57									
PV 4x13/5.5	25x25	4	5.5	168	161	150	143	136	126	119	108	97	86	74									
PV 4x16/7.5	25x25	5.5	7.5	206	198	185	177	167	156	146	133	119	106	91									
PV 6x3/1.5	32x32	1.1	1.5	40				36	35	33	31	30	28	26	22	17							
PV 6x5/2	32x32	1.5	2	66				60	58	55	52	50	47	43	36	28							
PV 6x7/3	32x32	2.2	3	92				85	81	78	73	70	66	61	51	40							
PV 6x9/4	32x32	3	4	119				109	104	100	94	90	84	78	65	51							
PV 6x12/5.5	32x32	4	5.5	159				145	139	133	125	120	113	104	87	68							
PV 6x16/7.5	32x32	5.5	7.5	197				180	173	165	156	150	140	130	108	85							
PV 8x4/2	40x40	1.5	2	53					44	42	41	39	37	33	29	23	17	12					
PV 8x6/3	40x40	2.2	3	79					66	64	61	59	56	50	44	35	26	18					
PV 8x8/4	40x40	3	4	105					88	85	82	78	74	66	58	46	34	24					
PV 8x10/5.5	40x40	4	5.5	132					110	106	102	98	93	83	73	58	43	30					
PV 8x13/7.5	40x40	5.5	7.5	171					143	138	133	127	121	108	95	75	56	39					
PV 8x17/10	40x40	7.5	10	224					187	180	173	167	158	141	124	99	73	51					
PV 12x3/2	50x50	1.5	2	44							43	42	41	40	38	36	33	30	27	24	20	17	
PV 12x4/3	50x50	2.2	3	59							58	57	55	53	50	48	44	40	36	32	27	23	
PV 12x5/4	50x50	3	4	73							72	71	69	66	63	60	55	50	45	40	34	29	
PV 12x7/5.5	50x50	4	5.5	102							101	99	97	92	88	84	77	70	63	56	48	40	
PV 12x9/7.5	50x50	5.5	7.5	132							130	127	124	119	113	108	99	90	81	71	61	51	
PV 12x11/10	50x50	7.5	10	161							159	155	152	145	138	131	121	110	99	87	75	63	
PV 12x15/15	50x50	11	15	220							217	212	207	198	189	179	165	150	136	119	102	86	

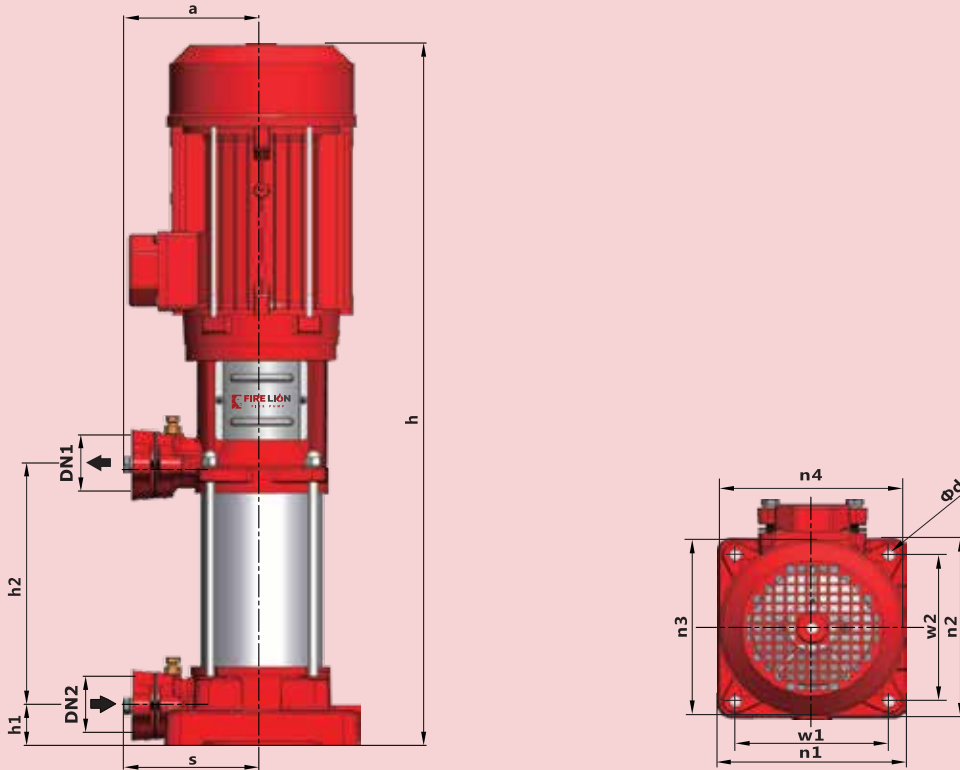
MODEL	DN mm	Power kw hp		Q=DELIVERY/								
				us	26	53	79	106	132	159	185	211
				gpm	100	200	300	400	500	600	700	800
				l/min	0	6	12	18	24	30	36	42
				H=Head (m)								
PV 30x5/10	65x65	7.5	10	105	100	93	86	78	67	54	36	4
PV 30x6/12	65x65	9.2	12.5	126	120	112	103	94	80	65	44	5
PV 30x8/15	65x65	11	15	168	158	149	138	124	106	86	58	6

MATERIAL DESCRIPTION



No.	Description Descripción Description	Material Material Matériel
1	Motor Motor Moteur	IP55 Class F IP55 Clase F IP55 classe F
2	Coupling Unión Couplage	Iron Hierro Le fer
3	Discharge Body Cuerpo Impulsión Corps de décharge	Cast iron Fundición Fonte
4	Cover Tapa Couverture	SS304 Inox 304 Inox 304
5	Release Valve Tapón Cebado Soupape de décharge	Brass Bronce Laiton
6	Discharge Impulsión Décharge	Cast iron Fundición Fonte
7	Bolt Perno Boulon	Steel Acero Acier
8	Seal Cover Tapa Cierre Couvercle de joint	Cast iron Fundición Fonte
9	Mechanical Seal Cierre Mecánico Garniture mécanique	SiC/Carbon/SS304 SiC/Grafito/Inox304 SiC/Carbon /Inox304
10	Suction Aspiración Succion	Cast iron Fundición Fonte
11	Pump Shaft Eje Arbre de pompe	SS304 Inox304 Inox304
12	Diffuser Top Cover Tope Tapa Difusor Couvercle diffuseur	Technopolimer Tecnopolimero Technopolimer
13	Pump Cover Tapa Bomba Couvercle de pompe	SS304 Inox 304 Inox 304
14	Through Bolt Perno Traversant le boulon	Steel Acero Acier
15	Diffuser Cover Tapa Difusor Couvercle de diffuseur	Technopolimer with SS304 ring Tecnopolimero con Inox anillo Technopolimer avec anneau Inox
16	Diffuser Difusor Diffuseur	Technopolimer with SS304 ring Tecnopolimero con Inox anillo Technopolimer avec anneau Inox
17	Impeller Impulsor Roue	Technopolimer Tecnopolimero Technopolimer
18	Impeller Nut Tuerca de Impulsor Écrou de roue	Galvanized Steel Acero Galvanizado Acier Galvanisé
19	O-ring Junta Tórica Joint torique	Rubber Caucho Caoutchouc
20	Suction Body Cuerpo Aspiración Corps d'aspiration	Cast iron Fundición Fonte

DIMENSIONS AND WEIGHT



MODEL/		DIMENSIONS/															kg	
Single-phase Monofásico Monophasé	Three-phase Trifásico Triphasé	DN1	DN2	N	a	s	h	h1	h2	w1	w2	n1	n2	n3	n4	d	1~	3~
PV 4x4/1.5	PV 4x4/1.5	25/32	25/32	4	141	141	615.5	45.5	156.5	165	165	202	202	175	175	12	27.0	26.0
PV 4x6/2	PV 4x6/2	25/32	25/32	6	141	141	685.5	45.5	226.5	165	165	202	202	175	175	12	32.0	31.0
PV 4x8/3	PV 4x8/3	25/32	25/32	8	141	141	755.5	45.5	296.5	165	165	202	202	175	175	12	37.0	36.0
PV 4x10/4	PV 4x10/4	25/32	25/32	10	141	141	872.5	45.5	366.5	165	165	202	202	195	195	12	47.0	46.0
-	PV 4x13/5.5	25/32	25/32	13	141	141	977.5	45.5	471.5	165	165	202	202	195	195	12	-	51.0
-	PV 4x16/7.5	25/32	25/32	16	141	141	1132.5	45.5	576.5	165	165	202	202	204	204	12	-	61.0
PV 6x3/1.5	PV 6x3/1.5	25/32	25/32	3	141	141	580.5	45.5	121.5	165	165	202	202	175	175	12	26.0	25.0
PV 6x5/2	PV 6x5/2	25/32	25/32	5	141	141	650.5	45.5	191.5	165	165	202	202	175	175	12	31.0	30.0
PV 6x7/3	PV 6x7/3	25/32	25/32	7	141	141	720.5	45.5	261.5	165	165	202	202	175	175	12	36.0	35.0
PV 6x9/4	PV 6x9/4	25/32	25/32	9	141	141	837.5	45.5	331.5	165	165	202	202	195	195	12	46.0	45.0
-	PV 6x12/5.5	25/32	25/32	12	141	141	942.5	45.5	436.5	165	165	202	202	195	195	12	-	50.0
-	PV 6x16/7.5	25/32	25/32	16	141	141	1132.5	45.5	576.5	165	165	202	202	204	204	12	-	60.0
PV 8x4/2	PV 8x4/2	40/50	40/50	4	141	141	615.5	45.5	156.5	165	165	202	202	175	175	12	30.0	29.0
PV 8x6/3	PV 8x6/3	40/50	40/50	6	141	141	685.5	45.5	226.5	165	165	202	202	175	175	12	35.0	34.0
PV 8x8/4	PV 8x8/4	40/50	40/50	8	141	141	802.5	45.5	296.5	165	165	202	202	195	195	12	45.0	44.0
-	PV 8x10/5.5	40/50	40/50	10	141	141	872.5	45.5	366.5	165	165	202	202	195	195	12	-	49.0
-	PV 8x13/7.5	40/50	40/50	13	141	141	1027.5	45.5	471.5	165	165	202	202	204	204	12	-	59.0
-	PV 8x17/10	40/50	40/50	17	141	141	1167.5	45.5	611.5	165	165	202	202	204	204	12	-	64.0
PV 12x3/2	PV 12x3/2	40/50	40/50	3	141	141	580.5	45.5	121.5	165	165	202	202	175	175	12	28.0	27.0
PV 12x4/3	PV 12x4/3	40/50	40/50	4	141	141	615.5	45.5	156.5	165	165	202	202	175	175	12	33.0	32.0
PV 12x5/4	PV 12x5/4	40/50	40/50	5	141	141	697.5	45.5	191.5	165	165	202	202	195	195	12	41.0	40.0
-	PV 12x7/5.5	40/50	40/50	7	141	141	767.5	45.5	261.5	165	165	202	202	195	195	12	-	45.0
-	PV 12x9/7.5	40/50	40/50	9	141	141	887.5	45.5	331.5	165	165	202	202	204	204	12	-	55.0
-	PV 12x11/10	40/50	40/50	11	141	141	957.5	45.5	401.5	165	165	202	202	204	204	12	-	62.0
-	PV 12x15/15	40/50	40/50	15	141	141	1127.5	45.5	541.5	165	165	202	202	260	260	12	-	80.0
-	PV 30x5/10	50/65	50/65	5	170	170	939	62	309	187	187	230	230	260	260	12	-	84.0
-	PV 30x6/12	50/65	50/65	6	170	170	993	62	362.5	187	187	230	230	260	260	12	-	90.0
-	PV 30x8/15	50/65	50/65	8	170	170	1100	62	469.5	187	187	230	230	260	260	12	-	97.0



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CHAPTER 5

ELECTRIC MOTOR

MODEL CODE/

For example/

IE3 - 160 (S/M/L) 2/1-2/4

→ **2**=2 poles motor 3500rpm

→ Stator size code

2=Longer size

1=Long size

Blank:Standard size

→ Frame length code

S=Short size

M=Middle size

L=Long size

→ **160**=Motor frame size(mm)

→ **IE3**=IE3 high efficient motor

IE3

Electric motor TEFC type



DESCRIPTION/

- ◆ Design according to IEC60034 standard
- ◆ TOTAL ENCLOSED FAN COOLING TYPE motor
- ◆ IE3 high efficient motor
- ◆ Protection IP55 class F
- ◆ Quality NSK bearing
- ◆ Continuous duty S1
- ◆ Reliable used for fire fighting system etc.
- ◆ Ambient temperature up to +50°C
- ◆ Cooling type : IC411

TECHNICAL DATA

60 Hz n=3500 1/min

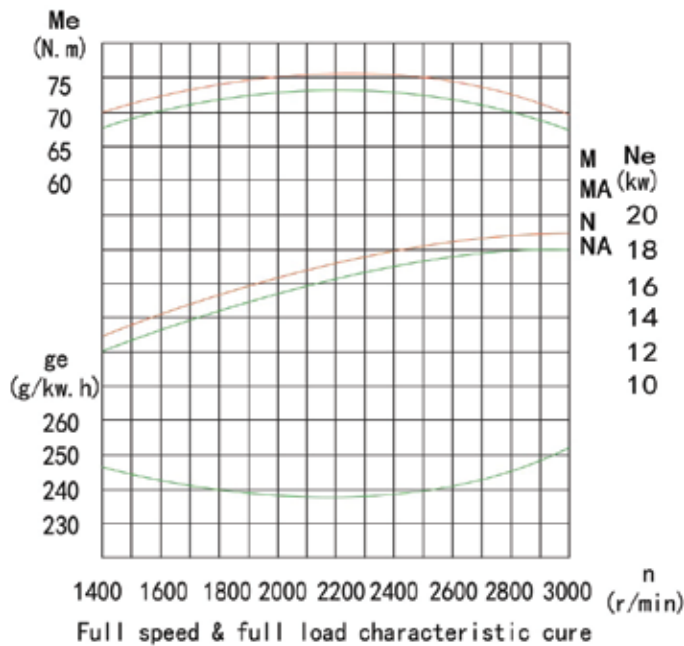
MODEL	Power		RPM 1/min	η %	η 75%	η 50%	$\cos \Phi$	A			Nm	Ts/Tn	Tmax/Tn	Is/In	dB(A)	Kgs
	kw	hp						220V	380V	660V						
IE3-801-2	0.75	1	3500	80.7	80.7	79.1	0.82	2.9	1.7	1	2.49	2.3	2.3	7	73	18.1
IE3-802-2	1.1	1.5	3500	82.7	82.7	81	0.83	4.2	2.4	1.4	3.65	2.2	2.3	7.3	73	19.5
IE3-90S-2	1.5	2	3500	84.2	84.2	82.5	0.84	5.5	3.2	1.8	4.95	2.2	2.3	7.6	76	23.3
IE3-90L-2	2.2	3	3500	85.9	85.9	84.2	0.85	8	4.6	2.7	7.26	2.2	2.3	7.6	77	27.1
IE3-100L-2	3	4	3500	87.1	87.1	85.4	0.87	10.4	6	3.5	9.9	2.2	2.3	7.8	79	38.8
IE3-112M-2	4	5.5	3500	88.1	88.1	86.3	0.88	13.5	7.8	4.5	13.1	2.2	2.3	8.3	80	48.3
IE3-132S1-2	5.5	7.5	3500	89.2	89.2	87.4	0.88	18.4	10.6	6.1	17.9	2	2.3	8.3	83	55.1
IE3-132S2-2	7.5	10	3500	90.1	90.1	88.3	0.88	24.9	14.4	8.3	24.4	2	2.3	7.9	84	69.2
IE3-132M-2	9.2	12.5	3500	91.0	91.0	89.4	0.88	31.2	18	10.4	30.1	2	2.3	7.9	85	85.5
IE3-160M1-2	11	15	3500	91.2	91.2	89.4	0.89	35.7	20.6	11.9	35.7	2	2.3	8.1	87	113
IE3-160M2-2	15	20	3500	91.9	91.9	90.1	0.89	48.3	27.9	16.1	48.6	2	2.3	8.1	87	123
IE3-160L-2	18.5	25	3500	92.4	92.4	90.6	0.89	59.2	34.2	19.7	60.1	2	2.3	8.2	90	142
IE3-180M-2	22	30	3500	92.7	92.7	90.8	0.89	70.1	40.5	23.4	71.1	2	2.3	8.2	90	182
IE3-200L1-2	30	40	3500	93.3	93.3	91.4	0.89	95	54.9	31.7	96.8	2	2.3	7.6	91	246
IE3-200L2-2	37	50	3500	93.7	93.7	91.8	0.89	117	67.4	38.9	119.4	2	2.3	7.6	91	265
IE3-225M-2	45	60	3500	94	94	92.1	0.9	140	80.8	46.7	144.9	2	2.3	7.7	93	323
IE3-250M-2	55	75	3500	94.3	94.3	92.4	0.9	171	98.5	56.9	176.9	2	2.3	7.7	93	413
IE3-280S-2	75	100	3500	94.7	94.7	92.8	0.9	232	134	77.4	240.8	1.8	2.3	7.1	94	546



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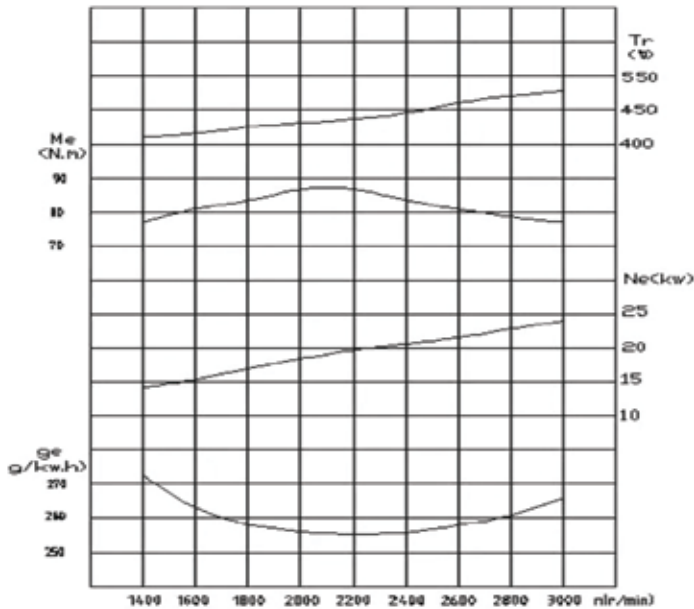
CHAPTER 6

DIESEL ENGINES



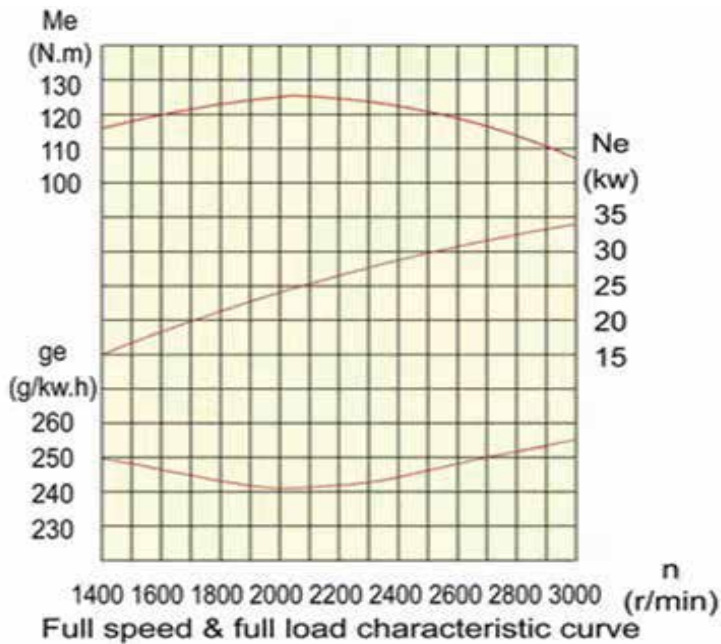
YC20

MODEL		YC20
TYPE		Vertical in-line, Water Cooling, 4 Strokes
CYLINDER NUMBER		3
BORExSTROKE	MM	80x90
COMBUSTION METHOD		Direction Injection
ASPIRATION		Natural Aspiration
COMPRESSION RATIO		18:1
DISPLACEMENT	L	1.357
RATED POWER/SPEED	KW/RPM	20/3000
MAX. TORQUE	N.M	≥77
MAX. TORQUE SPEED	RPM	1600-2100
MAX. UNLOADED SPEED	RPM	3300
MIN. UNLOADED SPEED	RPM	≤850
FUEL CONSUMPTION	G/KWxH	≤240
LUBRICATING COMSUMPTION RATE	G/KWxH	≤1.12
FIRE TURN		1-3-2
ROTATE DIRECTION		Antilockwise
COOLING METHOD		Forced Circle Water Cooling
LUBRICATING METHOD		Force And Splash Lubricating
START METHOD		Electrical Start
NET WEIGHT	KG	225
MEASUREMENT:LxWxH(ENGINE ONLY)	MM	582x494x630
FUEL TANK CAPACITY	L	20/40



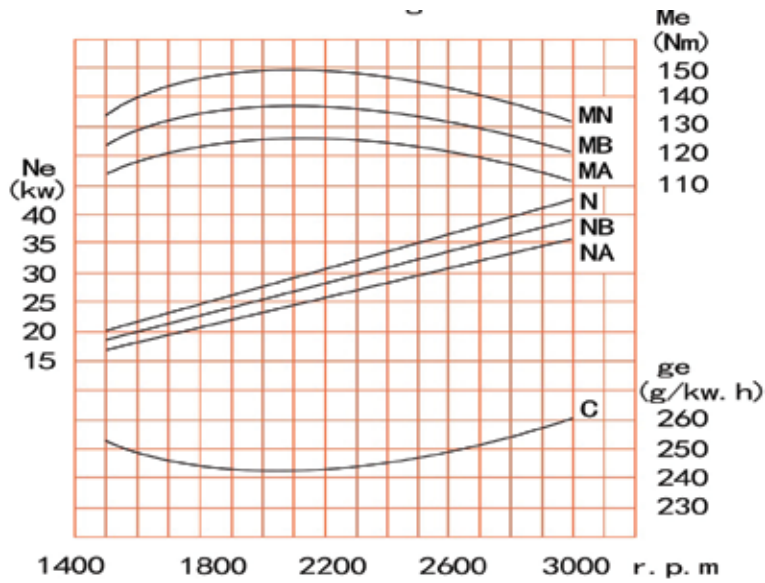
YC24

MODEL		YC24
TYPE		Vertical in-line, Water Cooling, 4 Strokes
CYLINDER NUMBER		3
BORExSTROKE	MM	85x90
COMBUSTION METHOD		Direction Injection
ASPIRATION		Natural Aspiration
COMPRESSION RATIO		18:1
DISPLACEMENT	L	2
RATED POWER/SPEED	KW/RPM	24/3000
MAX. TORQUE	N.M	≥90
MAX. TORQUE SPEED	RPM	1600-2100
MAX. UNLOADED SPEED	RPM	3300
MIN. UNLOADED SPEED	RPM	≤850
FUEL CONSUMPTION	G/KWxH	≤240
LUBRICATING COMSUMPTION RATE	G/KWxH	≤1.12
FIRE TURN		1-3-2
ROTATE DIRECTION		Antilockwise
COOLING METHOD		Forced Circle Water Cooling
LUBRICATING METHOD		Force And Splash Lubricating
START METHOD		Electrical Start
NET WEIGHT	KG	230
MEASUREMENT:LxWxH(ENGINE ONLY)	MM	582x494x630
FUEL TANK CAPACITY	L	20/40



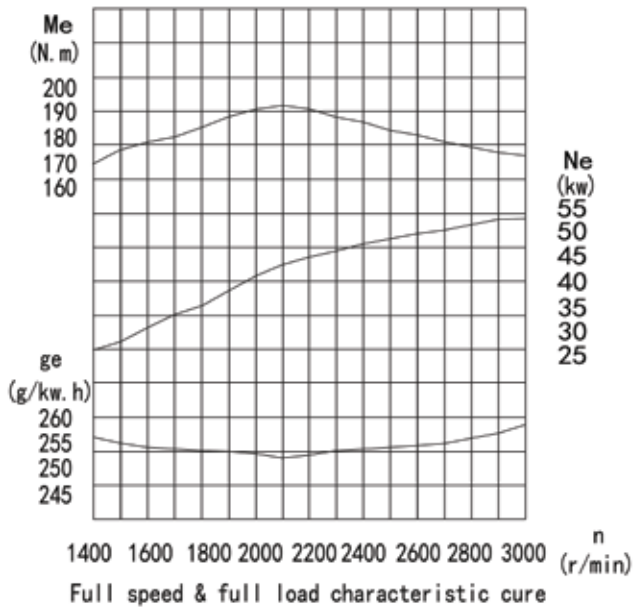
YC34

MODEL		YC34
TYPE		Vertical in-line, Water Cooling, 4 Strokes
CYLINDER NUMBER		4
BORExSTROKE	MM	85x100
COMBUSTION METHOD		Direction Injection
ASPIRATION		Natural Aspiration
COMPRESSION RATIO		18:1
DISPLACEMENT	L	2.269
RATED POWER/SPEED	KW/RPM	34/3000
MAX. TORQUE	N.M	≥125
MAX. TORQUE SPEED	RPM	1600-2100
MAX. UNLOADED SPEED	RPM	3300
MIN. UNLOADED SPEED	RPM	≤800
FUEL CONSUMPTION	G/KWxH	≤240
LUBRICATING COMSUMPTION RATE	G/KWxH	≤1.05
FIRE TURN		1-3-4-2
ROTATE DIRECTION		Antilockwise
COOLING METHOD		Forced Circle Water Cooling
LUBRICATING METHOD		Force And Splash Lubricating
START METHOD		Electrical Start
NET WEIGHT	KG	270
MEASUREMENT:LxWxH(ENGINE ONLY)	MM	696x492x650
FUEL TANK CAPACITY	L	20/40



YC45

MODEL		YC45
TYPE		Vertical in-line, Water Cooling, 4 Strokes
CYLINDER NUMBER		4
BORExSTROKE	MM	90x105
COMBUSTION METHOD		Direction Injection
ASPIRATION		Natural Aspiration
COMPRESSION RATIO		18:1
DISPLACEMENT	L	2.672
RATED POWER/SPEED	KW/RPM	45/3000
MAX. TORQUE	N.M	≥164
MAX. TORQUE SPEED	RPM	1600-2100
MAX. UNLOADED SPEED	RPM	3300
MIN. UNLOADED SPEED	RPM	≤750
FUEL CONSUMPTION	G/KWxH	≤238
LUBRICATING COMSUMPTION RATE	G/KWxH	≤1.1
FIRE TURN		1-3-4-2
ROTATE DIRECTION		Antilockwise
COOLING METHOD		Forced Circle Water Cooling
LUBRICATING METHOD		Force And Splash Lubricating
START METHOD		Electrical Start
NET WEIGHT	KG	320
MEASUREMENT:LxWxH(ENGINE ONLY)	MM	716x568x700
FUEL TANK CAPACITY	L	20/40



YC55

MODEL		YC55
TYPE		Vertical in-line, Water Cooling, 4 Strokes
CYLINDER NUMBER		4
BORExSTROKE	MM	90x105
COMBUSTION METHOD		Direction Injection
ASPIRATION		Tubo Charged
COMPRESSION RATIO		18:1
DISPLACEMENT	L	2.672
RATED POWER/SPEED	KW/RPM	55/3000
MAX. TORQUE	N.M	≥192
MAX. TORQUE SPEED	RPM	1600-2100
MAX. UNLOADED SPEED	RPM	3300
MIN. UNLOADED SPEED	RPM	≤750
FUEL CONSUMPTION	G/KWxH	≤230
LUBRICATING COMSUMPTION RATE	G/KWxH	≤1.05
FIRE TURN		1-3-4-2
ROTATE DIRECTION		Antilockwise
COOLING METHOD		Forced Circle Water Cooling
LUBRICATING METHOD		Force And Splash Lubricating
START METHOD		Electrical Start
NET WEIGHT	KG	325
MEASUREMENT:LxWxH(ENGINE ONLY)	MM	716x632x790
FUEL TANK CAPACITY	L	20/40



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CHAPTER 5

CONTROL PANELS



FIRE LION Fire Pump Unit Controller is the Pump Package brain that designed to Control & Monitor the operation of the Main, Standby, and Jockey pumps Drivers, and makes up pumps for both Manual & Automatic modes, as well as turns pumps drivers ON/OFF under specific conditions.

The Fire Pump Package Controller detects signals through set of built in switches that reflect the system Pressure & Flow status enabling fire pump package drivers (Electrical /Diesel /Jockey) to operate in case of pressure in the system is lower than set point, as well as operating the Stand by driver due to power failure and/or substantial drop in pressure. Fire Lion Pumps Series Controllers are pre-wired, and factory tested before deliver and made ready for immediate usage.

Pump Controller Features

- Standard Dry Run Protection (above 100 GPM pumps).
- DOL – (Below 60 HP Motor Size) / Star Delta Starter
- Circuit available up on request.
- Different Mounting Styles.
- Low Maintenance Cost and available spare parts.
- Standard cable marking for easy maintenance.
- Low Pressure cut-off (timer based) (optional).
- Automatic or manual (test) operation.
- Compatible with any remote signaling or monitoring systems like BMS OR FACP.
- Electronic battery charger (current sensing).
- Lamp test facility (optional).
- Fault Trip facility (other than dry run - optional).
- Crank protection circuit for diesel engine (optional).
- Delayed start for fire signal (optional).
- Strong, Reliable and Elegant Standard Red Powder Coated Galvanized Steel Enclosure.
- Stainless Steel Enclosures are available for outdoor applications (Optional).



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CHAPTER 6

ACCESSORIES

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