

효성 소방 펌프 패키지

HFS

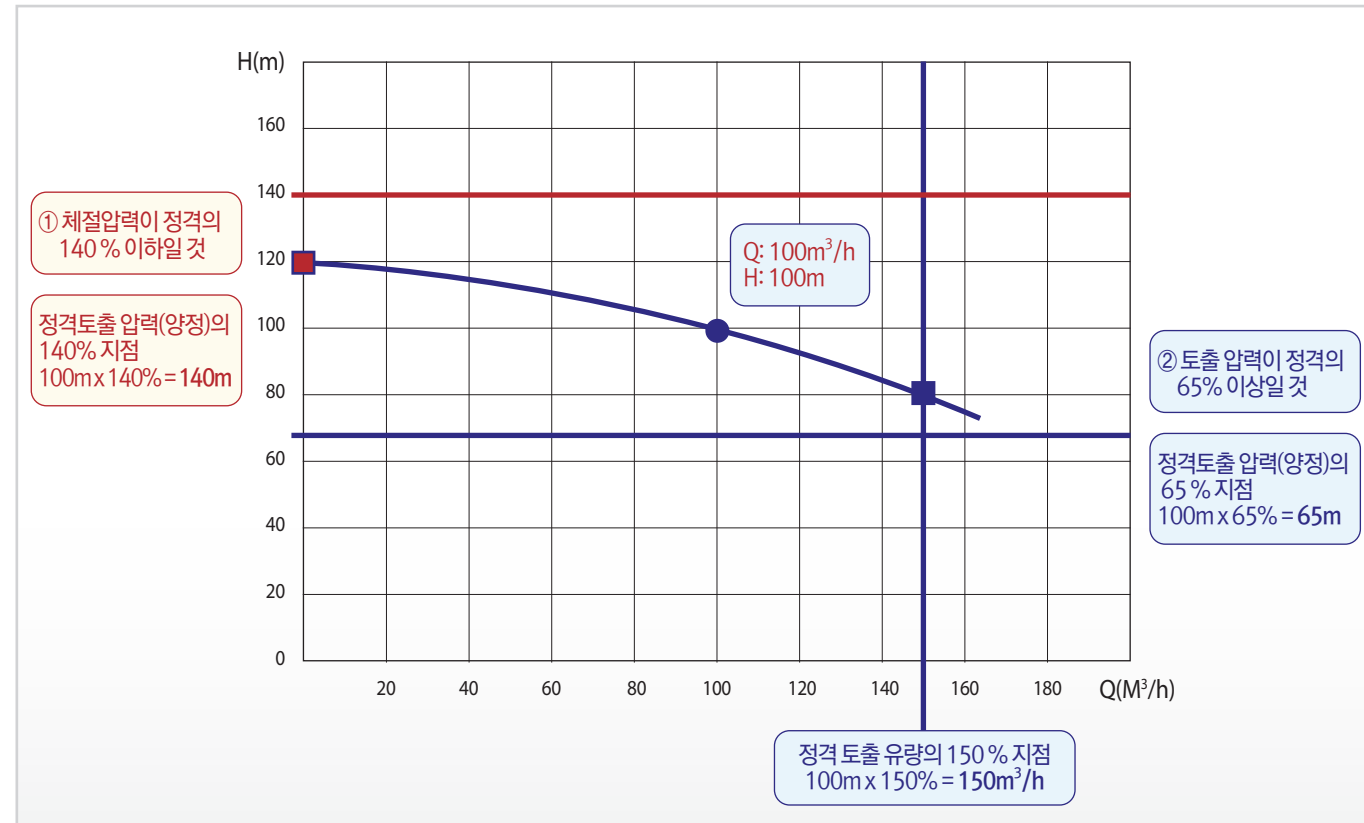
Hyosung Fire-fighting pump System



소방 규정에 따른 펌프의 선정 기준

[옥내소화전설비의 화재안전능기준(NFPC 102) 제5조 7항]
[옥내소화전설비의 화재안전기술기준(NFTC 102) 2.2.1.6항]
[스프링클러설비의 화재안전기술기준(NFTC 103) 2.2.1.5항]

- ① 펌프의 성능은 체절 운전 시, 정격 토출압력의 140%를 초과해서는 안된다.
- ② 정격 토출유량의 150% 유량에서 토출압력은 정격 토출압력의 65% 이상이 되어야 한다.



소방 규정에 따른 펌프 재질 선정 기준 [소방청공고 제2022-210호]

스프링클러설비의 화재안전기술기준(NFTC 103) 2.2.1.18항
가압송수장치는 부식 등으로 인한 펌프의 고착을 방지할 수 있도록 다음 각 목의 기준에 적합한 것으로 할 것.

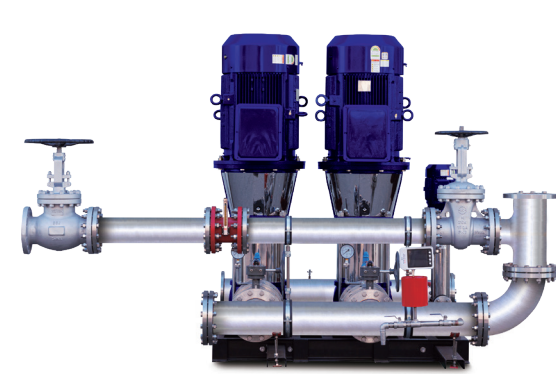
- ① 임펠러는 청동 또는 스테인리스 등 부식에 강한 재질을 사용할 것.
- ② 펌프축은 스테인리스 등 부식에 강한 재질을 사용할 것.

소방 규정 위반에 따른 과태료 [법률 제17007호]

제 9조 ① 특정소방대상물의 관계인은 대통령령으로 정하는 소방시설을 화재안전기준에 따라 설치 또는 유지·관리하여야 한다.
<개정 2014. 1. 7.>

제 53조(과태료) ① 다음 각 호의 어느 하나에 해당하는 자에게는 300만원 이하의 과태료를 부과한다. <신설 2016. 1. 27., 2020. 6. 9.>
1. 제9조제1항 전단의 화재안전기준을 위반하여 소방시설을 설치 또는 유지·관리한 자

용도 Application



소방용
Firefighting



가압용
Pressurizing



특징 Features

01. 회전차, 안내케이싱, 축 등 주요 구성품에 스테인리스 스틸이 적용되어 내부식성을 가지며, 화재안전능기준 및 화재안전기술기준 신규 개정안을 만족 (NFPC102, NFTC102, NFPC103, NFTC103, NFPC502, NFTC502)
02. 소방 주/예비/중압 펌프를 하나의 패키지로 구성하여 납품함으로써 현장에서 배관 작업 소요 시간 단축
03. 시험용 배관 및 유량계, 전자식 압력 스위치 일체형으로 제공되어 현장에서 배관 연결은 3 점점만 연결하여 별도의 시험용 배관 설치가 필요 없음

01. Stainless steel is applied to major components such as the impeller, guide casing, and shaft to have corrosion resistance and satisfy the new revision of the fire safety standard (NFPC102, NFTC102, NFPC103, NFTC103, NFPC502, NFTC502).
02. The Hyosung Fire-fighting pump System consist of primary pump, standby pump, jockey pump and valve, etc will be delivered as one package so that it could reduce time for piping work on site.
03. The test piping will be furnished with a flow meter, digital pressure switch and valves. On site the piping work is required only for outlet & inlet piping and discharge for testing.

호칭 Model Designation

HFS-HMSF155-2-55kW/HMSF5-12

펌프 모델명
HFS
Model Name

주 펌프 기종명
HMSF155-2
Primary pump

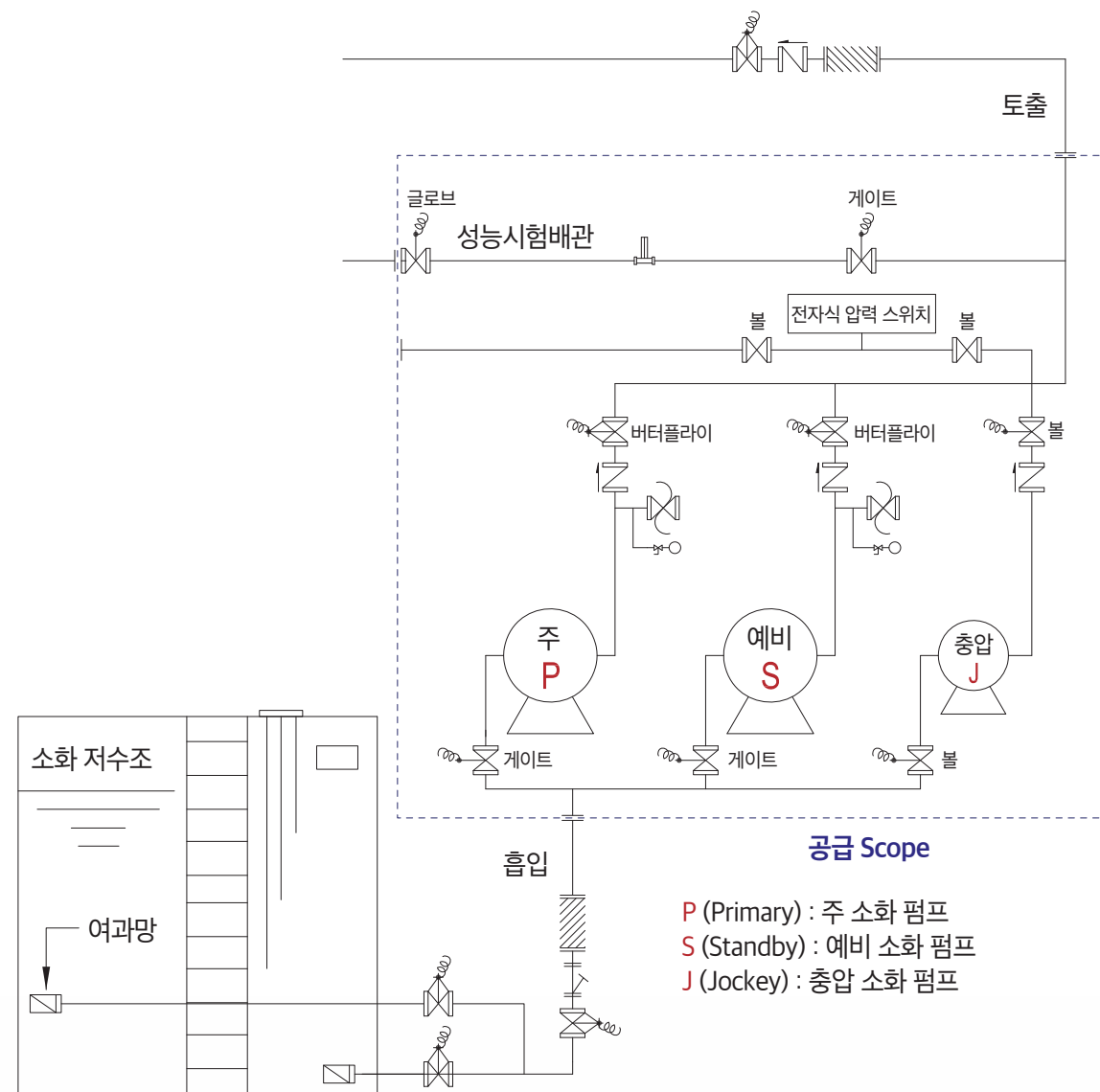
주 펌프 동력
55kW
Motor rating

충압 펌프
HMSF5-12
Jockey pump

표준 사양 Standard Specification

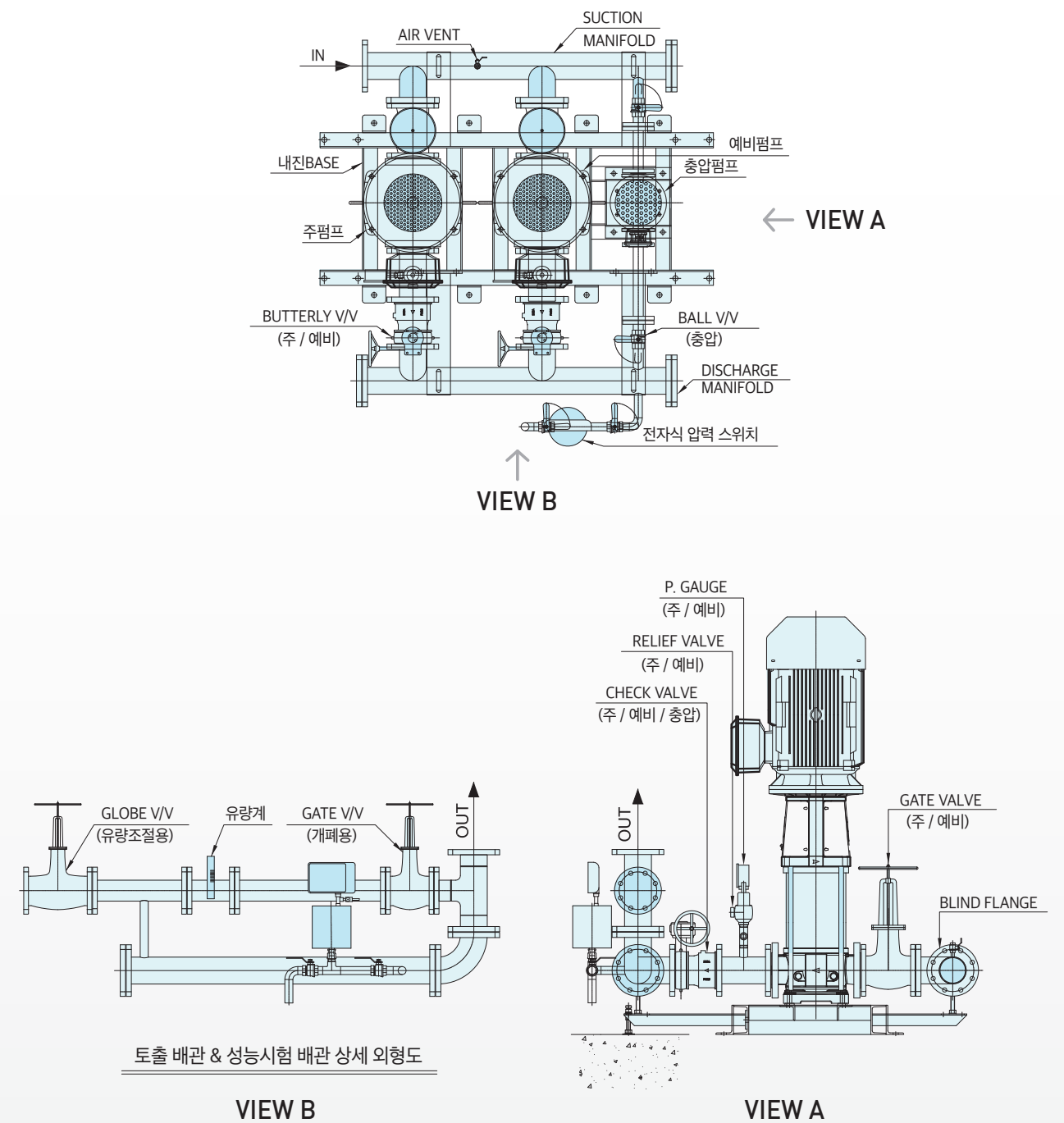
항목 Category			적용 기종		
			5, 10, 15, 20	32, 45, 64	95, 125, 155, 185, 215, 255
액질 Liquid	취급액	Applicable Liquid	청수 (PH5.8~8.6) & 마모 물질이 포함되지 않은 액체 Clean Water does not contain corrosive matters		
	온도	Temperature	-15 ~ 120 °C		
최대허용압력 Maximum Allowable Pressure	[MPa]		1.6 or 2.5		
	[BAR]		16 or 25		
구조 Structure	회전차	Impeller	클로즈 임펠러 Closed Type Impeller		
	축봉타입	Shaft Seal	메카니칼 씰 Mechanical Seal SIC / CARBON / VITON (고정자 / 회전자 / 고무)		
	베어링	Bearing	밀봉 볼 베어링 (모터) Sealed Ball Bearing (Inside The Motor) 슬리브 베어링 (펌프) Submerged Sleeve Bearing (Inside The Pump)		
펌프 재질 Pump Material	케이싱 Casing	하부 Bottom	GCD250 or eq.		
		중간 Middle	STS304 or eq.		
		외부 Outer	STS304 or eq.		
	모터 브라켓 Motor Bracket	상부 Cover	GCD250 or eq.		GCD500 or eq.
			GCD450 or eq.		GCD500 or eq.
	회전차	Impeller	STS304 or eq.		
	축	Shaft	STS304 or eq.		STS329J3L or eq.
	축 슬리브	Shaft Sleeve	STS304 or eq.		
시스템 구성품 재질 Material of System Components	오링	O-Ring	EPDM		
	함류관	Manifold	흡입, 토출, 시험 배관 (Pipe for Suction, Discharge, Test) : SPP(탄소 강관 혹은) or STS304		
	게이트 밸브, 버터플라이 밸브	Gate V/V, Butterfly V/V	GCD450 or eq.		
	글로브 밸브	Globe V/V	SCPH2 or eq.		
	체크 밸브	Check V/V	DN100 이하 (HMSF100이하) : STS304 or eq., DN150 이상 (HMSF125 이상) : GCD450 or eq.		
설치장소 Installation			주위온도 40°C 이하, 표고 1000m 이하, 부식성 및 폭발성 가스 및 증기가 없는 곳 Ambient Temperature : 40°C or less; Altitude : 1000m or less; Place without Corrosive and Explosive Gas and Vapor		

계통도

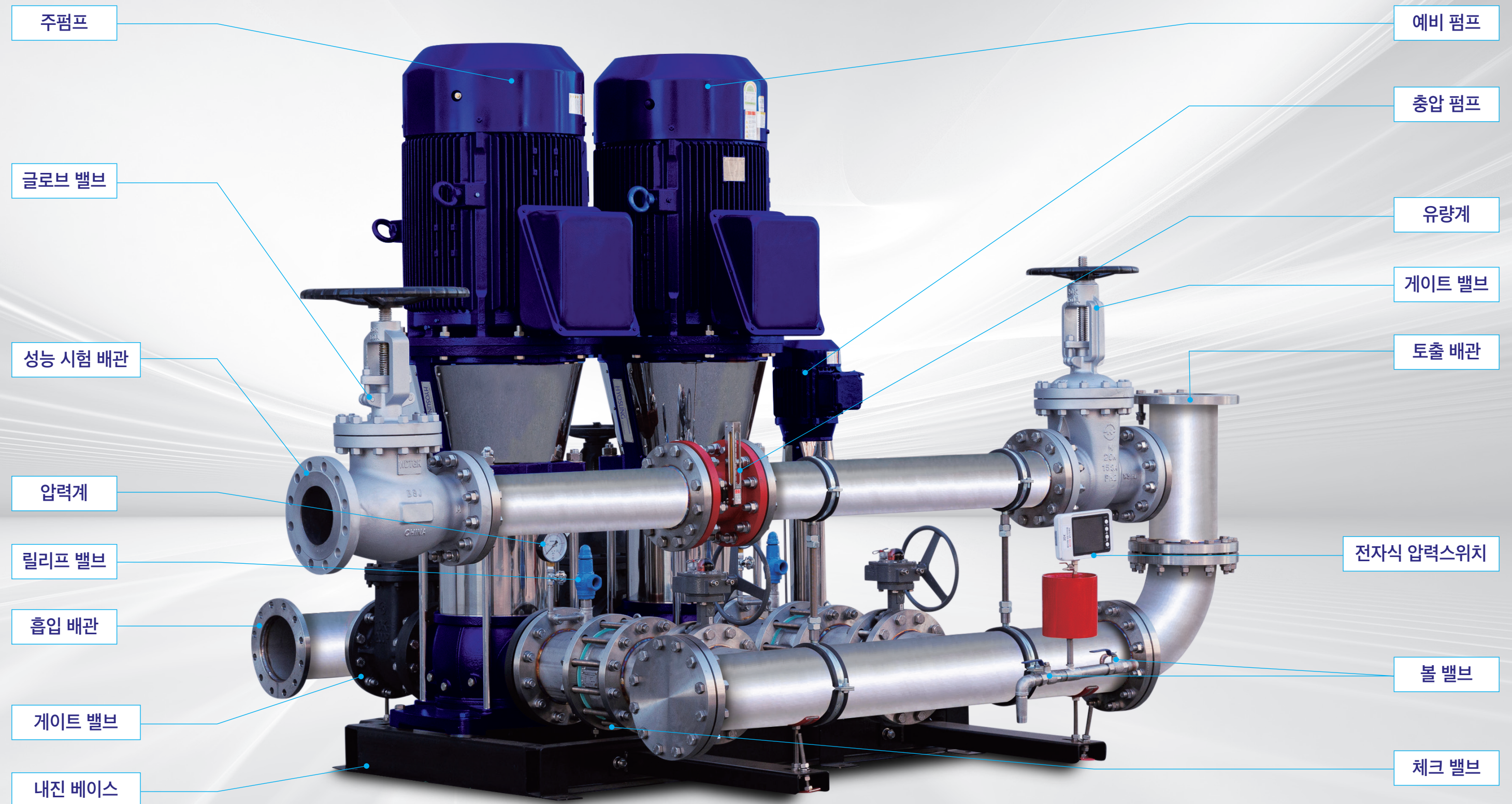


심벌	내용	심벌	내용
	밸브		스트레이너 (Y형)
	밸브 (W TAMPER SWITCH)		후렉시블 조인트
	밸브 (개폐 표시형 밸브 / W TAMPER SWITCH)		릴리프 밸브
	체크 밸브		유량계
			압력계

시스템 개략도

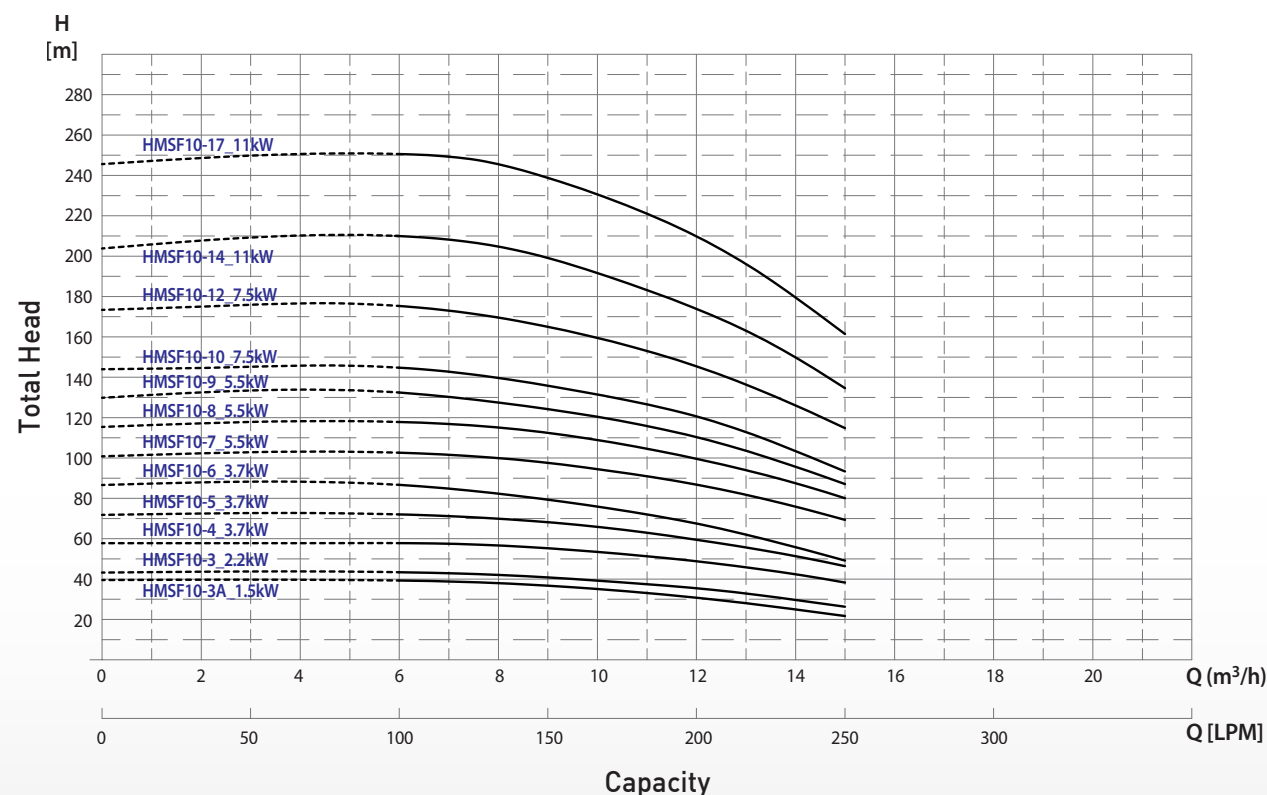


소방 펌프 패키지 주요 구성



성능 곡선도 Performance Curve

[HFS-HMSF10]

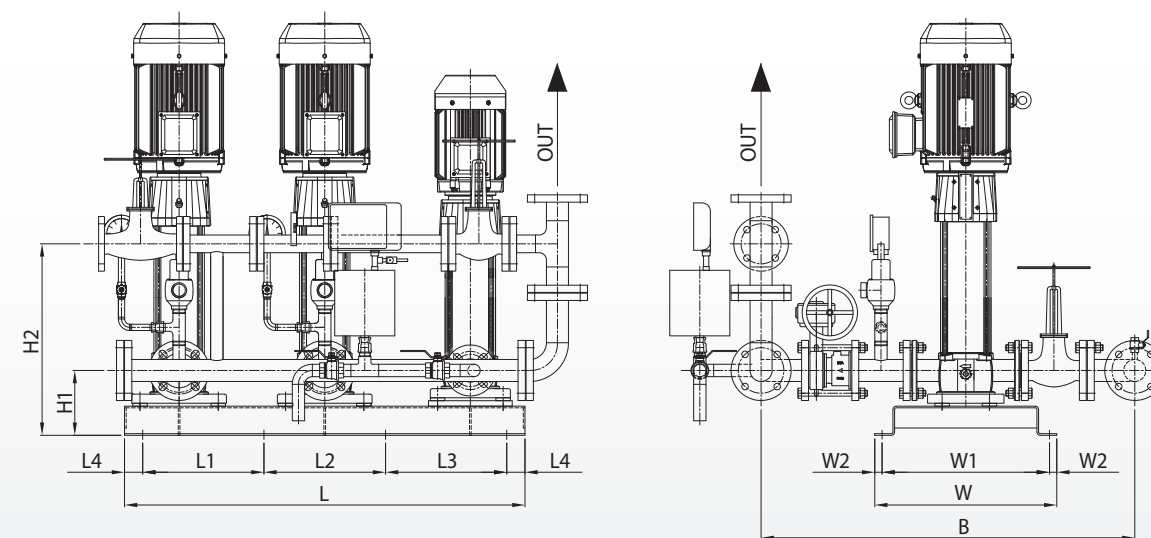


모델명 Model	모터 정격 kW	Q(m³/h) Q (LPM)	0	4	6	8	10(대표)	12	14	15	총압펌프	3.6 60
			0	67	100	133	167	200	233	250		
HMSF10-3A	1.5	H (m)	40	40	40	40	35	31	25	22	HMSF5-4	34
HMSF10-3	2.2		43	44	43	42	39	35	30	26	HMSF5-5	44
HMSF10-4	3.7		58	58	58	57	53	49	42	38	HMSF5-6	53
HMSF10-5	3.7		72	73	72	70	66	59	51	46	HMSF5-7	63
HMSF10-6	3.7		87	88	87	82	76	68	56	49	HMSF5-9	79
HMSF10-7	5.5		101	103	103	100	94	87	76	69	HMSF5-12	105
HMSF10-8	5.5		115	118	118	115	109	100	87	80	HMSF5-14	122
HMSF10-9	5.5		130	134	132	127	120	110	96	87	HMSF5-16	141
HMSF10-10	7.5		144	146	145	140	131	121	103	93	HMSF5-18	161
HMSF10-12	7.5		173	177	175	170	159	145	126	115	HMSF5-20	181
HMSF10-14	11		204	210	210	205	192	174	150	135	HMSF5-22	199
HMSF10-17	11		246	251	251	246	231	210	180	161	HMSF5-24	212
											HMSF5-29	257

※ 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정된 기준임.
 ※ 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기중명 조합 기준임. 예) 주 펌프 사양 (160LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF10-8-5.5kW/HMSF5-12
 주 펌프 선정 - HMSF10-8-5.5kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF10/HMSF5]

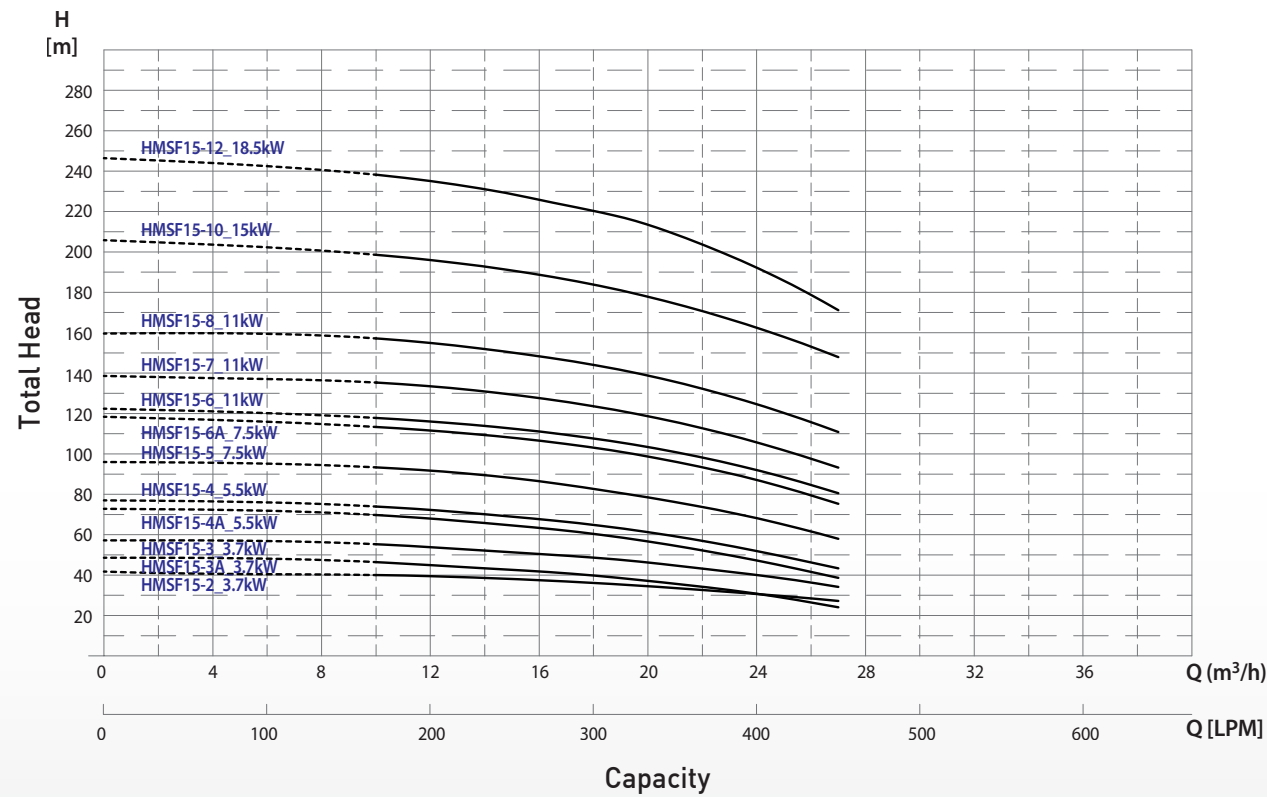


모델명 Model	배관			동력				외형치수										
	흡입	토출	시험	주		총압		L	L1	L2	L3	L4	M	W	W1	W2	H1	H2
	mm	mm	mm	kW	HP	kW	HP	mm										
HFS-HMSF10-3A-1.5kW/HMSF5-5	40	40	40	1.5	2	1.5	2	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-3A-1.5kW/HMSF5-6	40	40	40	1.5	2	1.5	2	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-3-2.2kW/HMSF5-6	40	40	40	2.2	3	1.5	2	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-4-3.7kW/HMSF5-7	40	40	40	3.7	5	1.5	2	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-4-3.7kW/HMSF5-9	40	40	40	3.7	5	2.2	3	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-5-3.7kW/HMSF5-9	40	40	40	3.7	5	2.2	3	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-6-3.7kW/HMSF5-9	40	40	40	3.7	5	2.2	3	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-6-3.7kW/HMSF5-12	40	40	40	3.7	5	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-7-5.5kW/HMSF5-12	40	40	40	5.5	7.5	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-8-5.5kW/HMSF5-12	40	40	40	5.5	7.5	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-8-5.5kW/HMSF5-14	40	40	40	5.5	7.5	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-9-5.5kW/HMSF5-14	40	40	40	5.5	7.5	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-9-5.5kW/HMSF5-16	40	40	40	5.5	7.5	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-10-7.5kW/HMSF5-16	40	40	40	7.5	10	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-12-7.5kW/HMSF5-16	40	40	40	7.5	10	3.7	5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-12-7.5kW/HMSF5-20	40	40	40	7.5	10	5.5	7.5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-14-11kW/HMSF5-20	40	40	40	11	15	5.5	7.5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-14-11kW/HMSF5-24	40	40	40	11	15	5.5	7.5	1100	333	334	333	50	972	500	460	20	168	623
HFS-HMSF10-17-11kW/HMSF5-24	40	40	40	11	15	5.5	7.5	1100	333	334	333	50	972	500	460	20	168	623

※ 모터 제조사에 따라 L, L1, L2, L3, L4 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF15]

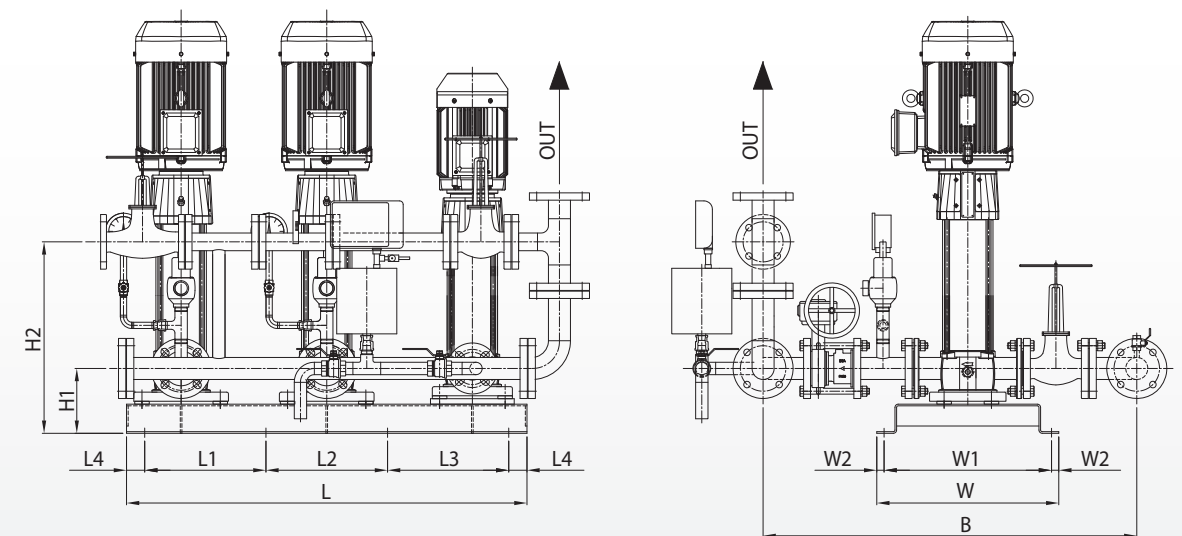


모델명 Model	모터 정격 kW	Q(m³/h) Q (LPM)	0	8	12	18(대표)	20	24	27	총압펌프	3.6 60
			0	133	200	300	333	400	450		
HMSF15-2	3.7	H (m)	42	40	39	36	35	31	27	HMSF5-4	34
HMSF15-3A	3.7		49	48	45	40	37	31	24	HMSF5-5	44
HMSF15-3	3.7		57	56	54	49	46	40	34	HMSF5-6	53
HMSF15-4A	5.5		73	71	68	60	57	47	39	HMSF5-7	63
HMSF15-4	5.5		77	75	72	65	61	52	43	HMSF5-9	79
HMSF15-5	7.5		96	94	92	83	78	68	58	HMSF5-12	105
HMSF15-6A	7.5		118	115	112	103	99	87	75	HMSF5-14	122
HMSF15-6	11		122	119	116	108	103	92	81	HMSF5-16	141
HMSF15-7	11		139	136	133	124	119	106	93	HMSF5-18	161
HMSF15-8	11		160	159	155	144	139	125	111	HMSF5-20	181
HMSF15-10	15		206	201	196	184	178	162	148	HMSF5-22	199
HMSF15-12	18.5		246	241	235	220	213	192	171	HMSF5-24	212
										HMSF5-29	257

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 주 펌프 선정 - HMSF15-6A-7.5kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF15/HMSF5]

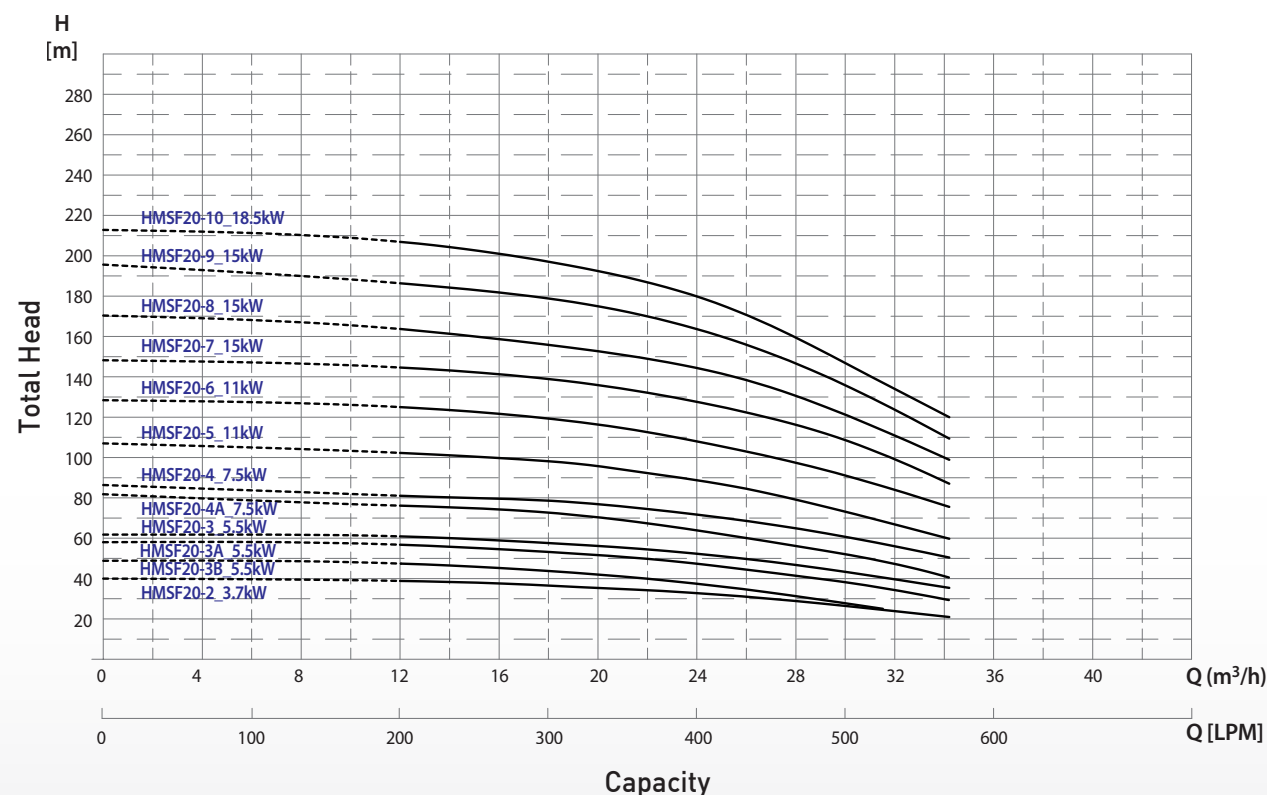


모델명 Model	배관			동력				외형치수										
	흡입	토출	시험	주		총압		L	L1	L2	L3	L4	M	W	W1	W2	H1	H2
	mm			kW	HP	kW	HP	mm										
HFS-HMSF15-2-3.7kW/HMSF5-5	50	50	40	3.7	5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-2-3.7kW/HMSF5-6	50	50	40	3.7	5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-3A-3.7kW/HMSF5-6	50	50	40	3.7	5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-3-3.7kW/HMSF5-7	50	50	40	3.7	5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-4A-5.5kW/HMSF5-9	50	50	40	5.5	7.5	2.2	3	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-4-5.5kW/HMSF5-9	50	50	40	5.5	7.5	2.2	3	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-5-7.5kW/HMSF5-9	50	50	40	7.5	10	2.2	3	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-5-7.5kW/HMSF5-12	50	50	40	7.5	10	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-6A-7.5kW/HMSF5-12	50	50	40	7.5	10	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-6A-7.5kW/HMSF5-14	50	50	40	7.5	10	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-6-11kW/HMSF5-14	50	50	40	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-7-11kW/HMSF5-14	50	50	40	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-7-11kW/HMSF5-16	50	50	40	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-8-11kW/HMSF5-16	50	50	40	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-8-11kW/HMSF5-20	50	50	40	11	15	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-10-15kW/HMSF5-20	50	50	40	15	20	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-10-15kW/HMSF5-24	50	50	40	15	20	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF15-12-18.5kW/HMSF5-24	50	50	40	18.5	25	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659

※ 모터 제조사에 따라 L, L1, L2, L3, L4 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF20]

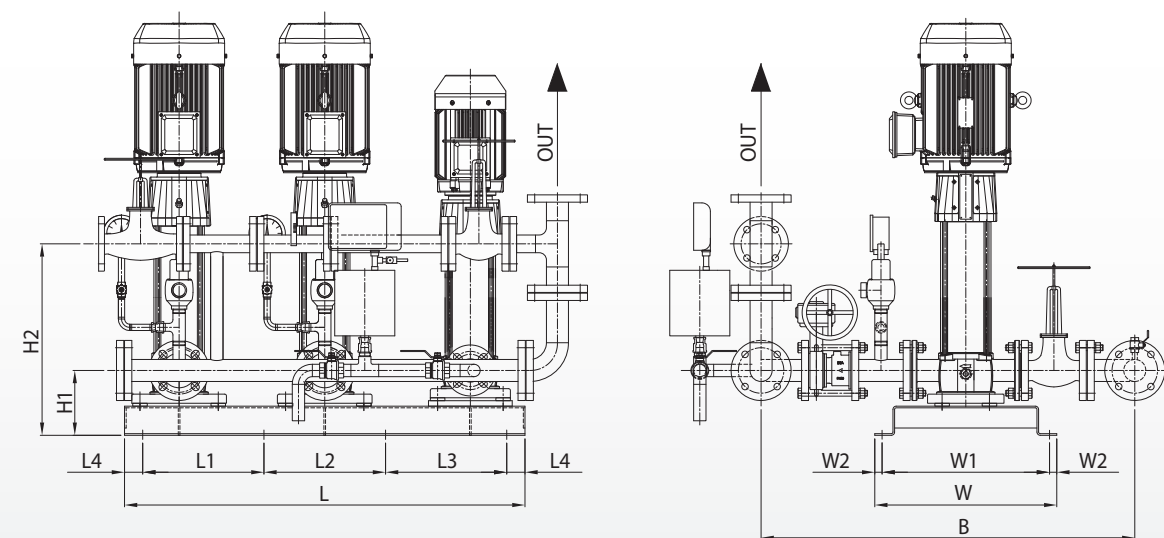


모델명 Model	모터 정격 kW	Q(m³/h) Q (LPM)	0	12	16	21(대표)	24	28	31.5	34	총압펌프	3.6 60
			0	200	267	350	400	467	525	567		
HMSF20-2	3.7	H (m)	40	39	38	35	33	29	25	21	HMSF5-4	34
HMSF20-3B	5.5		49	47	45	41	37	31	25		HMSF5-5	44
HMSF20-3A	5.5		58	57	54	51	47	41	35	30	HMSF5-6	53
HMSF20-3	5.5		62	61	59	55	52	47	41	36	HMSF5-7	63
HMSF20-4A	7.5		82	76	74	69	65	56	48	41	HMSF5-9	79
HMSF20-4	7.5		86	81	80	76	72	65	57	51	HMSF5-12	105
HMSF20-5	11		107	102	100	94	89	79	68	60	HMSF5-14	122
HMSF20-6	11		128	125	122	115	108	97	86	76	HMSF5-16	141
HMSF20-7	15		148	145	141	134	128	116	102	88	HMSF5-18	161
HMSF20-8	15		170	164	159	151	144	131	114	100	HMSF5-20	181
HMSF20-9	15		196	186	182	173	164	147	127	111	HMSF5-22	199
HMSF20-10	18.5		213	207	201	190	180	159	137	121	HMSF5-24	212
											HMSF5-29	257

※ 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정함 기준임.
 ※ 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기중명 조합 기준임. 예) 주 펌프 사양 (330LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF20-6-11kW/HMSF5-12
 주 펌프 선정 - HMSF20-6-11kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF20/HMSF5]

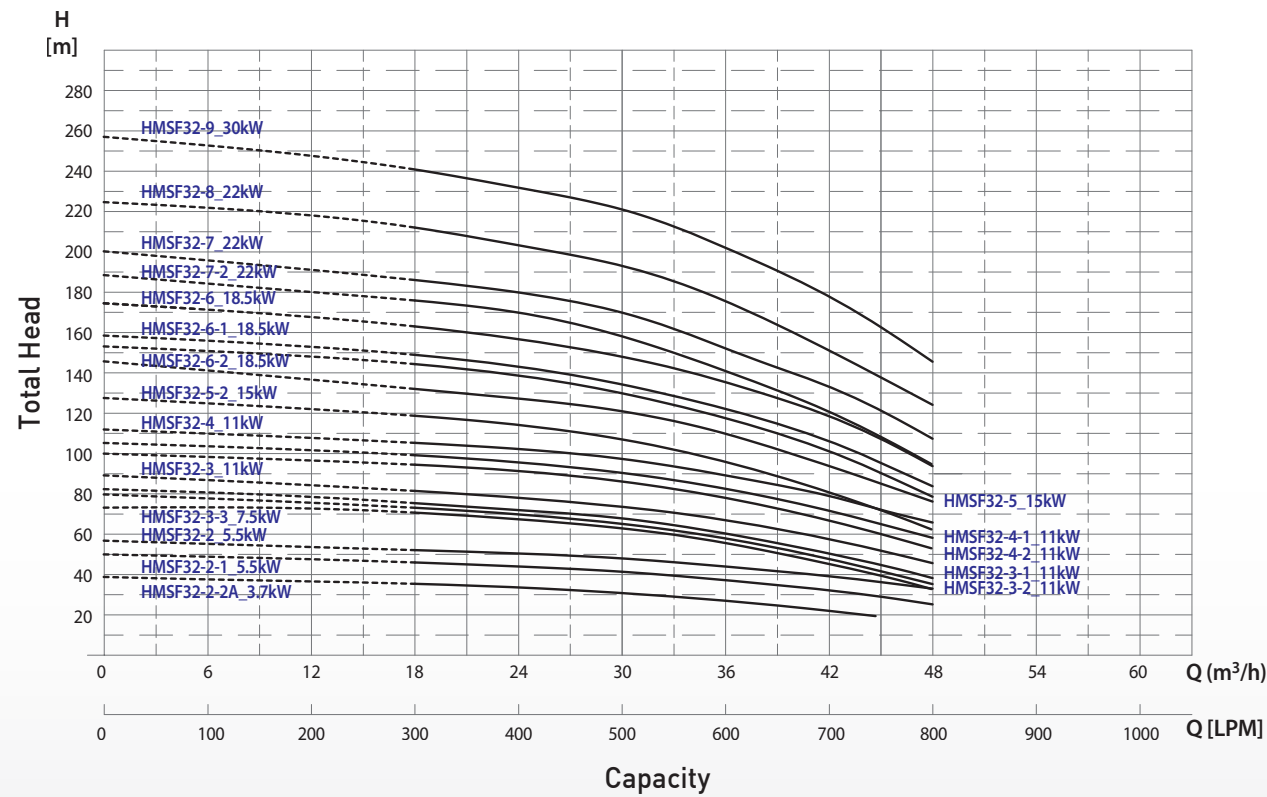


모델명 Model	배관			동력				외형치수										
	흡입	토출	시험	주		총압		L	L1	L2	L3	L4	M	W	W1	W2	H1	H2
	mm	mm	mm	kW	HP	kW	HP	mm										
HFS-HMSF20-2-3.7kW/HMSF5-5	50	50	50	3.7	5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-2-3.7kW/HMSF5-6	50	50	50	3.7	5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-3B-5.5kW/HMSF5-6	50	50	50	5.5	7.5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-3A-5.5kW/HMSF5-7	50	50	50	5.5	7.5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-3-5.5kW/HMSF5-7	50	50	50	5.5	7.5	1.5	2	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-3-5.5kW/HMSF5-9	50	50	50	5.5	7.5	2.2	3	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-4A-7.5kW/HMSF5-9	50	50	50	7.5	10	2.2	3	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-4-7.5kW/HMSF5-9	50	50	50	7.5	10	2.2	3	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-4-7.5kW/HMSF5-12	50	50	50	7.5	10	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-5-11kW/HMSF5-12	50	50	50	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-6-11kW/HMSF5-12	50	50	50	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-6-11kW/HMSF5-14	50	50	50	11	15	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-7-15kW/HMSF5-14	50	50	50	15	20	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-7-15kW/HMSF5-16	50	50	50	15	20	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-8-15kW/HMSF5-16	50	50	50	15	20	3.7	5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-8-15kW/HMSF5-20	50	50	50	15	20	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-9-15kW/HMSF5-20	50	50	50	15	20	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-10-18.5kW/HMSF5-20	50	50	50	18.5	25	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659
HFS-HMSF20-10-18.5kW/HMSF5-24	50	50	50	18.5	25	5.5	7.5	1100	333	334	333	50	1027	500	460	20	178	659

※ 모터 제조사에 따라 L, L1, L2, L3, L4 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF32]



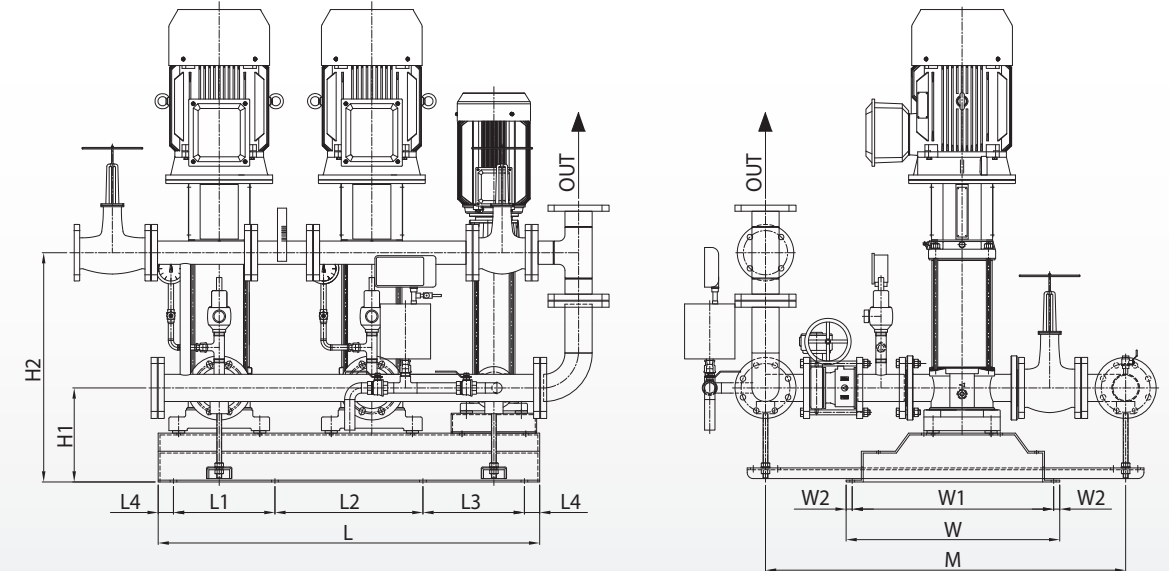
모델명 Model	모터 정격 kW	Q(m³/h)	0	21	24	27	30(대표)	40	45	48	총압펌프	3.6 60
		Q (LPM)	0	350	400	450	500	667	750	800		
HMSF32-2A	3.7	H (m)	39	35	34	32	31	24	19		HMSF5-4	34
HMSF32-2-1	5.5		50	45	44	43	41	34	29	25	HMSF5-5	44
HMSF32-2	5.5		57	51	50	49	48	41	36	33	HMSF5-6	53
HMSF32-3-3	7.5		73	69	67	65	63	49	39	33	HMSF5-7	63
HMSF32-3-2	11		80	72	70	68	65	51	42	35	HMSF5-9	79
HMSF32-3-1	11		82	74	72	70	68	54	45	38	HMSF5-12	105
HMSF32-3	11		89	80	78	76	74	61	52	46	HMSF5-14	122
HMSF32-4-2	11		100	93	91	89	86	71	60	53	HMSF5-16	141
HMSF32-4-1	11		105	98	96	93	90	76	65	58	HMSF5-18	161
HMSF32-4	11		112	104	102	100	97	83	72	66	HMSF5-20	181
HMSF32-5-2	15		128	117	114	111	107	86	72	62	HMSF5-22	199
HMSF32-5	15		146	130	127	125	121	99	85	76	HMSF5-24	212
HMSF32-6-2	18.5		153	142	139	135	130	107	90	78	HMSF5-29	257
HMSF32-6-1	18.5		159	146	143	139	134	112	95	84		
HMSF32-6	18.5		175	160	157	153	148	125	107	94		
HMSF32-7-2	22		189	173	170	165	158	128	108	95		
HMSF32-7	22		200	183	180	176	170	140	121	107		
HMSF32-8	22		225	208	203	199	193	160	138	124		
HMSF32-9	30		257	237	232	227	221	187	163	146		

※ 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정한 기준임.

※ 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (400LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF32-4-11kW/HMSF5-12
주 펌프 선정 - HMSF32-4-11kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF32/HMSF5]

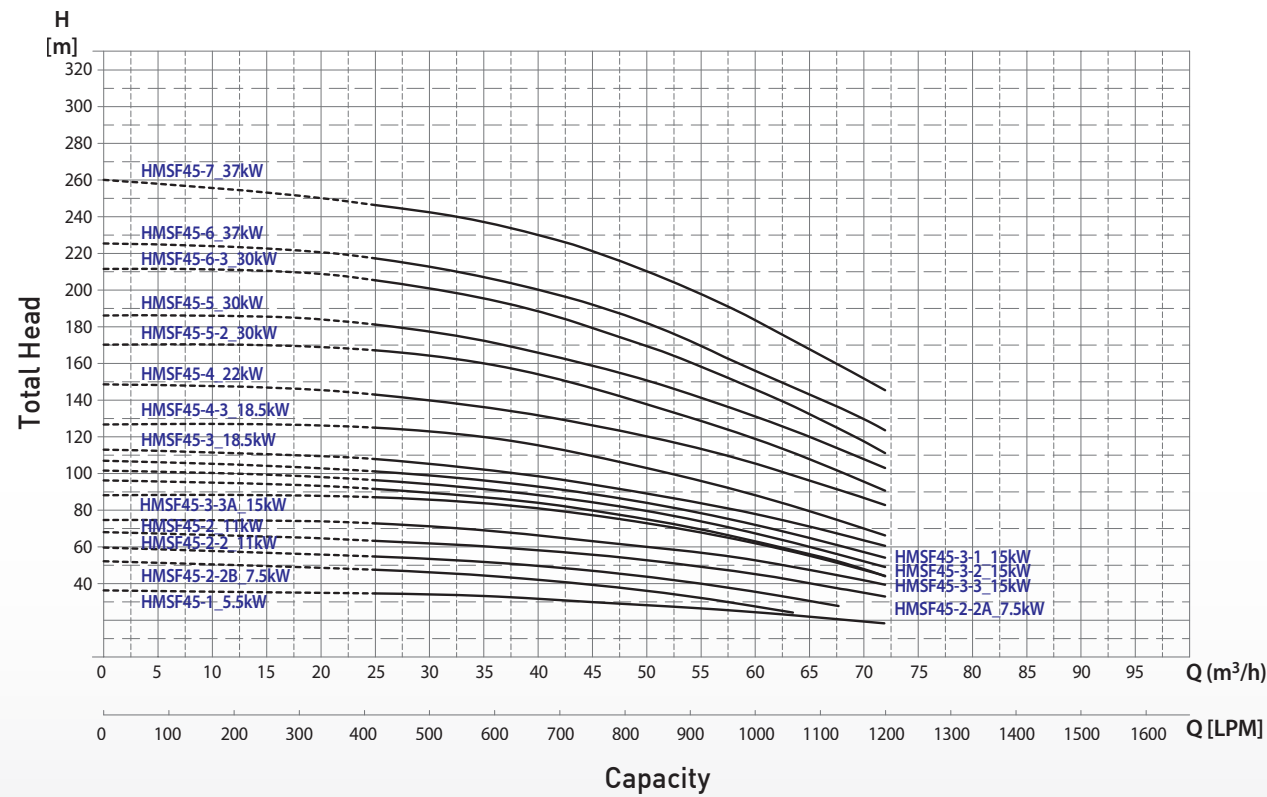


모델명 Model	배관			동력				외형치수										
	흡입	토출	시험	주		총압		L	L1	L2	L3	L4	M	W	W1	W2	H1	H2
	mm	mm	mm	kW	HP	kW	HP	mm										
HFS-HMSF32-2A-3.7kW/HMSF5-5	65	65	50	3.7	5	1.5	2	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-2A-3.7kW/HMSF5-6	65	65	50	3.7	5	1.5	2	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-2-1-5.5kW/HMSF5-6	65	65	50	5.5	7.5	1.5	2	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-2-5.5kW/HMSF5-7	65	65	50	5.5	7.5	1.5	2	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-3-3-7.5kW/HMSF5-9	65	65	50	7.5	10	2.2	3	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-3-2-11kW/HMSF5-9	65	65	50	11	15	2.2	3	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-3-1-11kW/HMSF5-9	65	65	50	11	15	2.2	3	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-3-1-11kW/HMSF5-12	65	65	50	11	15	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-3-11kW/HMSF5-9	65	65	50	11	15	2.2	3	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-3-11kW/HMSF5-12	65	65	50	11	15	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-4-2-11kW/HMSF5-12	65	65	50	11	15	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-4-1-11kW/HMSF5-12	65	65	50	11	15	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-4-11kW/HMSF5-12	65	65	50	11	15	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-5-2-15kW/HMSF5-12	65	65	50	15	20	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-5-2-15kW/HMSF5-14	65	65	50	15	20	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-5-15kW/HMSF5-14	65	65	50	15	20	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-5-15kW/HMSF5-16	65	65	50	15	20	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-6-2-18.5kW/HMSF5-16	65	65	50	18.5	25	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-6-1-18.5kW/HMSF5-16	65	65	50	18.5	25	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-6-1-18.5kW/HMSF5-20	65	65	50	18.5	25	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-6-18.5kW/HMSF5-16	65	65	50	18.5	25	3.7	5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-6-18.5kW/HMSF5-20	65	65	50	18.5	25	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-7-2-22kW/HMSF5-20	65	65	50	22	30	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-7-18.5kW/HMSF5-20	65	65	50	18.5	25	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-7-22kW/HMSF5-20	65	65	50	22	30	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-8-22kW/HMSF5-20	65	65	50	22	30	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-8-22kW/HMSF5-24	65	65	50	22	30	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764
HFS-HMSF32-9-30kW/HMSF5-24	65	65	50	30	40	5.5	7.5	1200	365	370	365	50	1091	700	660	20	273	764

※ 모터 제조사에 따라 L, L1, L2, L3, L4 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF45]

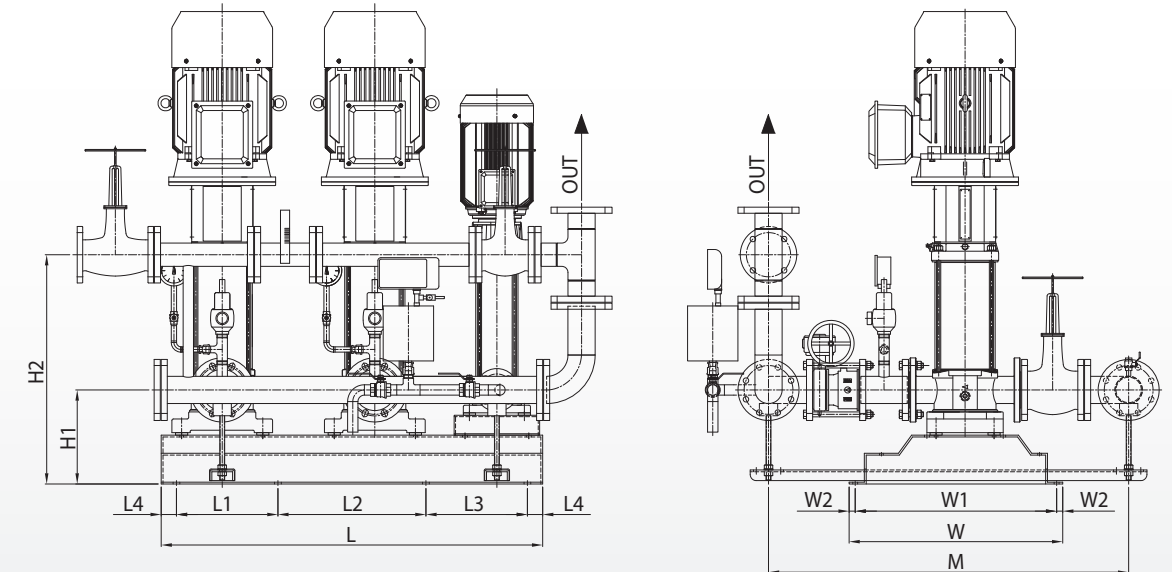


모델명 Model	모터 정격	Q (m³/h)	0	32	36	42(대표)	48	54	63	72	총압펌프	3.6
	kW	Q (LPM)	0	533	600	700	800	900	1050	1200		60
HMSF45-1	5.5	H (m)	36	34	33	31	29	27	23	18	HMSF5-4	34
HMSF45-2-2B	7.5		52	46	44	41	38	33	25		HMSF5-5	44
HMSF45-2-2A	7.5		60	53	52	49	45	41	33		HMSF5-6	53
HMSF45-2-2	11		68	62	60	57	54	50	42	33	HMSF5-7	63
HMSF45-2	11		75	71	69	65	61	57	50	39	HMSF5-9	79
HMSF45-3-3A	15		88	85	83	80	75	69	58	44	HMSF5-12	105
HMSF45-3-3	15		96	89	87	83	77	71	59	44	HMSF5-14	122
HMSF45-3-2	15		102	93	91	87	82	75	63	49	HMSF5-16	141
HMSF45-3-1	15		107	98	96	91	86	80	68	54	HMSF5-18	161
HMSF45-3	18.5		113	104	102	97	91	85	74	61	HMSF5-20	181
HMSF45-4-3	18.5		127	122	119	113	106	98	83	66	HMSF5-22	199
HMSF45-4	22		149	139	136	130	123	115	100	83	HMSF5-24	212
HMSF45-5-2	30		170	163	159	151	141	131	113	91	HMSF5-29	257
HMSF45-5	30		186	176	171	163	154	144	125	103		
HMSF45-6-3	30		212	199	194	185	174	161	138	111		
HMSF45-6	37		225	211	206	197	186	172	148	124		
HMSF45-7	37	260	240	236	227	215	200	175	145			

* 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정함 기준임.
 * 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (600LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF45-3-18.5kW/HMSF5-12
 주 펌프 선정 - HMSF45-3-18.5kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF45/HMSF5]

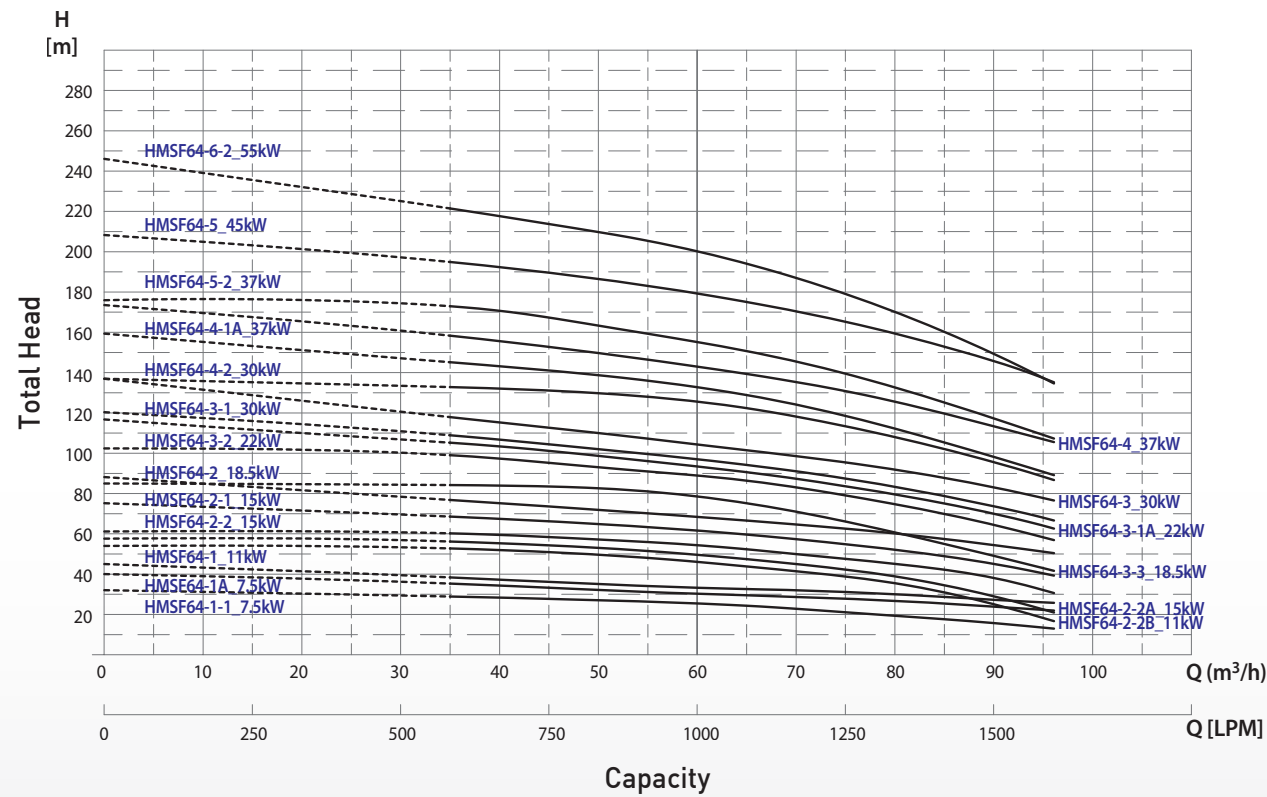


모델명 Model	배관			동력				외형치수											
	흡입	토출	시험	주		총압		L	L1	L2	L3	L4	M	W	W1	W2	H1	H2	
	mm			kW	HP	kW	HP	mm											
HFS-HMSF45-1-5.5kW/HMSF5-5	80	80	65	5.5	7.5	1.5	2	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-1-5.5kW/HMSF5-6	80	80	65	5.5	7.5	1.5	2	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-2-2B-7.5kW/HMSF5-6	80	80	65	7.5	10	1.5	2	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-2-2B-7.5kW/HMSF5-7	80	80	65	7.5	10	1.5	2	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-2-2A-7.5kW/HMSF5-7	80	80	65	7.5	10	1.5	2	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-2-2A-7.5kW/HMSF5-9	80	80	65	7.5	10	2.2	3	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-2-2-11kW/HMSF5-7	80	80	65	11	15	1.5	2	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-2-11kW/HMSF5-9	80	80	65	11	15	2.2	3	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-3-3A-15kW/HMSF5-9	80	80	65	15	20	2.2	3	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-3-3-15kW/HMSF5-9	80	80	65	15	20	2.2	3	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-3-2-15kW/HMSF5-12	80	80	65	15	20	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-3-1-15kW/HMSF5-12	80	80	65	15	20	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-3-18.5kW/HMSF5-12	80	80	65	18.5	25	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-4-3-18.5kW/HMSF5-12	80	80	65	18.5	25	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-4-3-18.5kW/HMSF5-14	80	80	65	18.5	25	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-4-22kW/HMSF5-14	80	80	65	22	30	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-4-22kW/HMSF5-16	80	80	65	22	30	3.7	5	1250	332.5	485	332.5	50	1180	700	660	20	308	907	
HFS-HMSF45-5-2-30kW/HMSF5-16	80	80	65	30	40	3.7	5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-5-30kW/HMSF5-16	80	80	65	30	40	3.7	5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-5-30kW/HMSF5-20	80	80	65	30	40	5.5	7.5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-6-3-30kW/HMSF5-20	80	80	65	30	40	5.5	7.5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-6-3-30kW/HMSF5-24	80	80	65	30	40	5.5	7.5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-6-37kW/HMSF5-20	80	80	65	37	50	5.5	7.5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-6-37kW/HMSF5-24	80	80	65	37	50	5.5	7.5	1350	355	540	355	50	1180	700	660	20	308	907	
HFS-HMSF45-7-37kW/HMSF5-24	80	80	65	37	50	5.5	7.5	1350	355	540	355	50	1180	700	660	20	308	907	

* 모터 제조사에 따라 L, L1, L2, L3, L4 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF64]

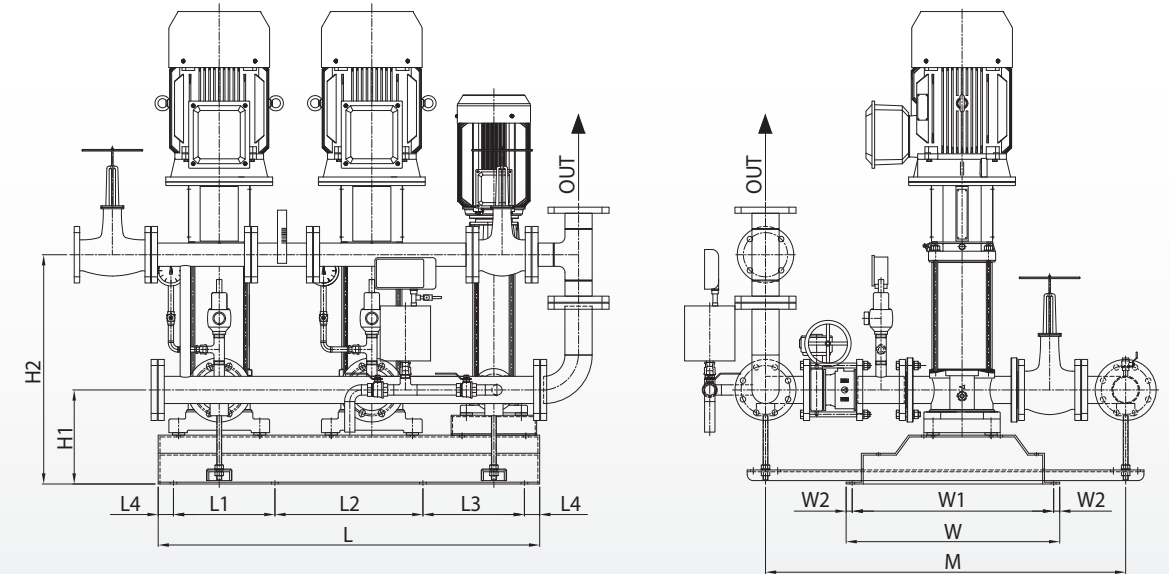


모델명 Model	모터 정격	Q (m³/h)	0	48	54	60(대표)	72	80	90	96	총압펌프	3.6
	kW	Q (LPM)	0	800	900	1000	1200	1333	1500	1600		60
HMSF64-1A	7.5	H (m)	40	32	31	30	28	26	23	21	HMSF5-4	34
HMSF64-1	7.5, 11		45	35	34	33	31	30	27	25	HMSF5-5	44
HMSF64-2-2B	11		54	50	48	46	40	35	25	16	HMSF5-6	53
HMSF64-2-2A	15		57	53	51	49	44	38	28	20	HMSF5-7	63
HMSF64-2-2	15		60	57	55	54	48	44	37	30	HMSF5-9	79
HMSF64-2-1	15		75	65	63	61	56	52	45	39	HMSF5-12	105
HMSF64-2	18.5		88	72	70	68	63	60	54	50	HMSF5-14	122
HMSF64-3-3	18.5		85	83	81	78	69	60	49	41	HMSF5-16	141
HMSF64-3-2	22		102	94	91	89	81	74	64	56	HMSF5-18	161
HMSF64-3-1A	22		116	99	96	93	85	79	70	62	HMSF5-20	181
HMSF64-3-1	30		120	103	100	97	89	83	73	66	HMSF5-22	199
HMSF64-3	30		137	111	107	104	97	91	83	76	HMSF5-24	212
HMSF64-4-2	30		137	130	128	125	116	108	95	86	HMSF5-29	257
HMSF64-4-1A	37		159	139	136	132	122	112	98	89		
HMSF64-4	37		173	151	147	143	133	125	113	105		
HMSF64-5-2	37		176	165	160	155	143	132	117	107		
HMSF64-5	45		208	187	183	179	168	159	145	135		
HMSF64-6-2	55		246	211	206	200	184	170	149	134		

※ 모터 정격은 S.F.(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정된 기준임.
 ※ 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (1000LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF64-3-30kW/HMSF5-12
 주 펌프 선정 - HMSF64-3-30kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF64/HMSF5]

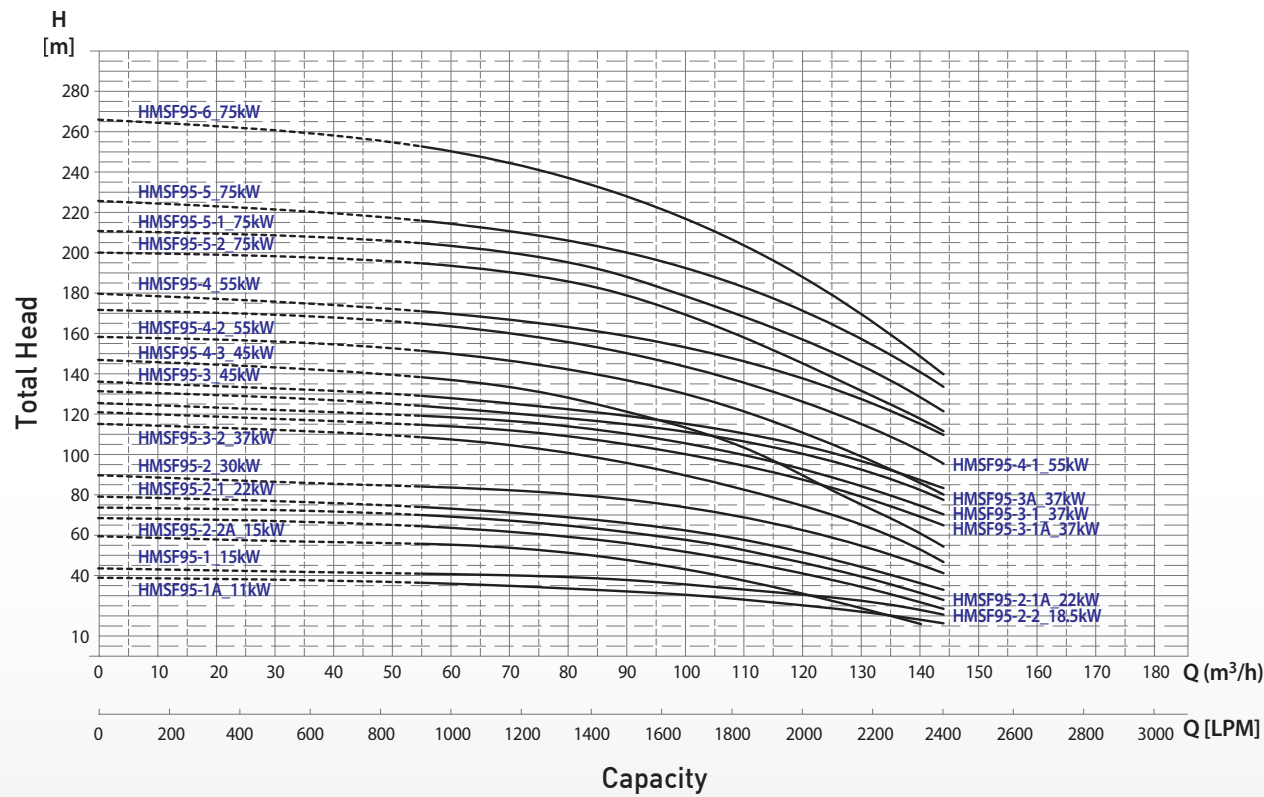


모델명 Model	배관			동력				외형치수										
	흡입	토출	시험	주		총압		L	L1	L2	L3	L4	M	W	W1	W2	H1	H2
	mm	mm	mm	kW	HP	kW	HP	mm										
HFS-HMSF64-1A-7.5kW/HMSF5-5	100	100	80	7.5	10	1.5	2	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-1-7.5kW/HMSF5-6	100	100	80	7.5	10	1.5	2	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-1-11kW/HMSF5-6	100	100	80	11	15	1.5	2	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-2-2B-11kW/HMSF5-6	100	100	80	11	15	1.5	2	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-2-2A-15kW/HMSF5-7	100	100	80	15	20	1.5	2	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-2-2-15kW/HMSF5-7	100	100	80	15	20	1.5	2	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-2-1-15kW/HMSF5-9	100	100	80	15	20	2.2	3	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-2-18.5kW/HMSF5-9	100	100	80	18.5	25	2.2	3	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-3-18.5kW/HMSF5-9	100	100	80	18.5	25	2.2	3	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-3-18.5kW/HMSF5-12	100	100	80	18.5	25	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-2-22kW/HMSF5-12	100	100	80	22	30	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-1A-22kW/HMSF5-12	100	100	80	22	30	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-1-30kW/HMSF5-12	100	100	80	30	40	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-30kW/HMSF5-12	100	100	80	30	40	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-3-30kW/HMSF5-14	100	100	80	30	40	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-4-2-30kW/HMSF5-14	100	100	80	30	40	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-4-2-30kW/HMSF5-16	100	100	80	30	40	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-4-1A-37kW/HMSF5-16	100	100	80	37	50	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-4-37kW/HMSF5-16	100	100	80	37	50	3.7	5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-4-37kW/HMSF5-20	100	100	80	37	50	5.5	7.5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-5-2-37kW/HMSF5-20	100	100	80	37	50	5.5	7.5	1250	332.5	485	332.5	50	1255	700	660	20	308	823
HFS-HMSF64-5-45kW/HMSF5-20	100	100	80	45	60	5.5	7.5	1350	355	540	355	50	1255	700	660	20	308	823
HFS-HMSF64-5-45kW/HMSF5-24	100	100	80	45	60	5.5	7.5	1350	355	540	355	50	1255	700	660	20	308	823
HFS-HMSF64-6-2-55kW/HMSF5-24	100	100	80	55	75	5.5	7.5	1350	355	540	355	50	1255	700	660	20	308	823

※ 모터 제조사에 따라 L, L1, L2, L3, L4 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF95]



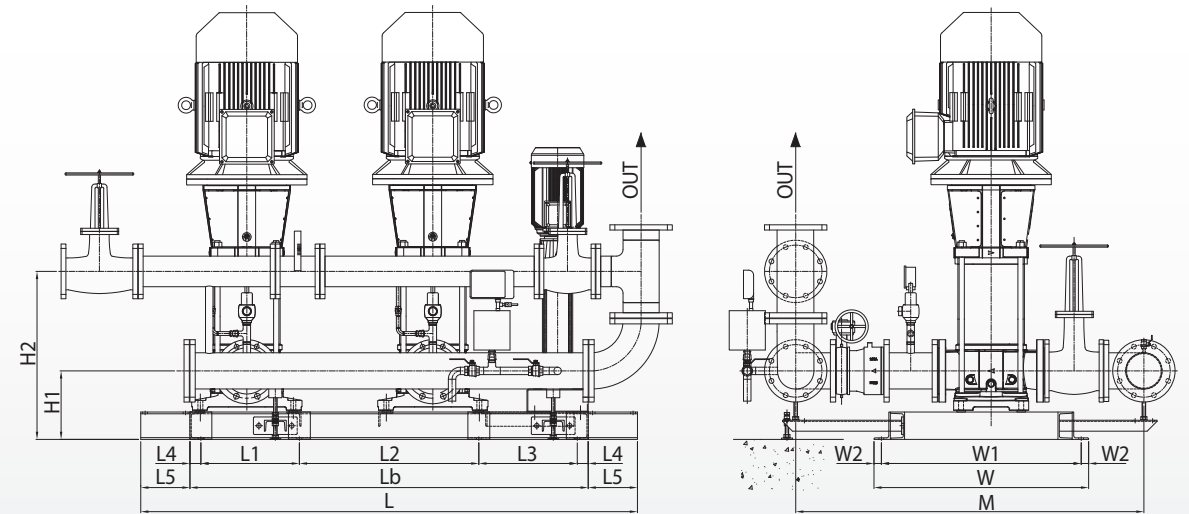
모델명 Model	모터 정격 kW	Q(m³/h) Q(LPM)	0	64	72	84	96(대표)	108	128	144
			0	1067	1200	1400	1600	1800	2133	2400
HMSF95-1A	11	H (m)	39	36	35	33	31	29	23	16
HMSF95-1	15		44	41	40	39	37	34	28	21
HMSF95-2-2A	15		60	55	53	50	45	39	25	
HMSF95-2-2	18.5		69	63	61	58	54	48	36	24
HMSF95-2-1A	22		74	69	67	64	59	54	41	28
HMSF95-2-1	22		79	73	71	68	64	59	46	33
HMSF95-2	30		90	83	82	79	76	70	57	41
HMSF95-3-2	30, 37		115	107	104	99	92	84	67	47
HMSF95-3-1A	37		121	113	112	108	102	96	81	65
HMSF95-3-1	37		126	118	116	113	108	101	86	70
HMSF95-3A	37		131	122	120	117	113	108	94	78
HMSF95-3	45		136	127	125	121	117	112	99	83
HMSF95-4-3	45		147	136	133	126	117	106	78	54
HMSF95-4-2	45, 55		158	149	146	140	133	123	102	80
HMSF95-4-1	55		172	162	159	154	146	137	118	96
HMSF95-4	55		180	169	166	162	156	148	130	110
HMSF95-5-2	75		200	192	190	183	173	160	134	112
HMSF95-5-1	75		211	202	199	193	183	170	147	121
HMSF95-5	75		226	213	210	204	196	185	160	134
HMSF95-6	75		266	248	243	234	222	207	174	140

※ 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정한 기준임.

※ 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (1400LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF95-3-1A-37kW/HMSF5-12
주 펌프 선정 - HMSF95-3-1A-37kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF95/HMSF5]

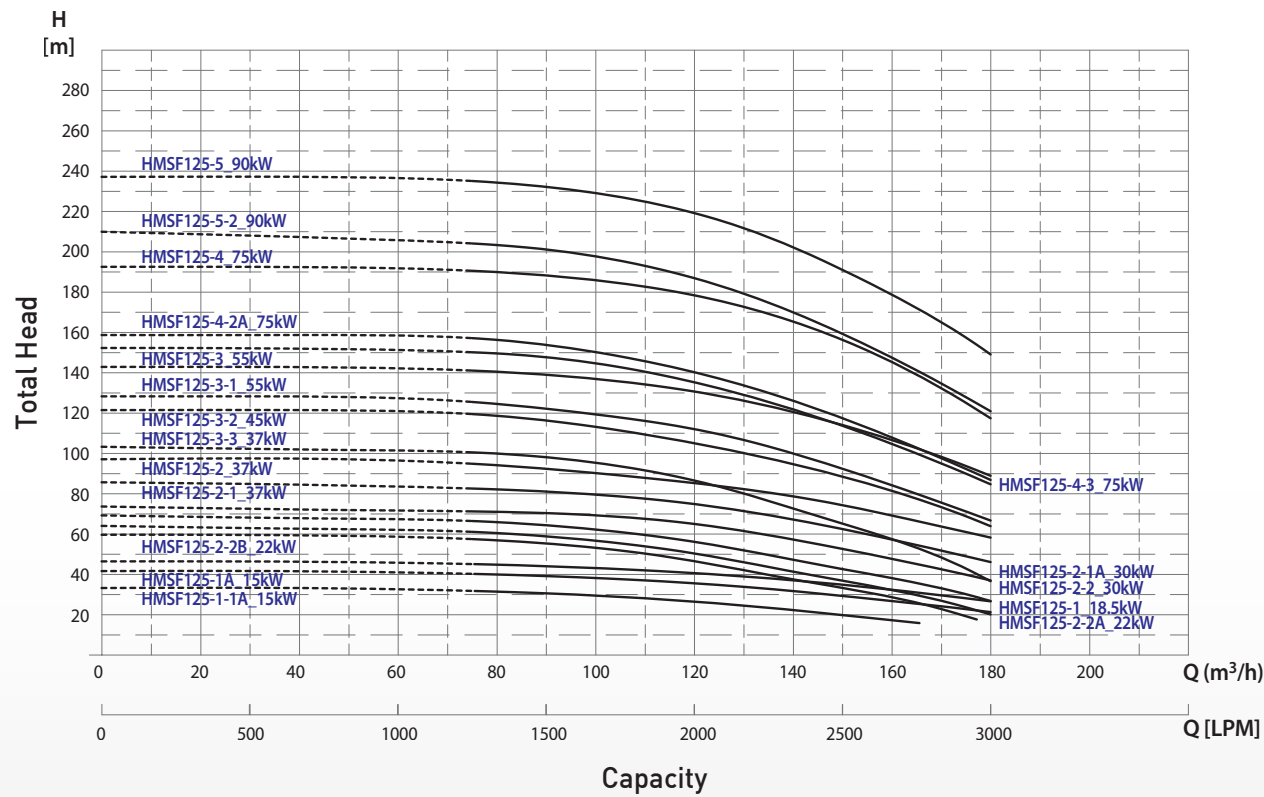


모델명 Model	배관			동력				외형치수													
	흡입	토출	시험	주		총압		L	Lb	L1	L2	L3	L4	L5	M	W	W1	W2	H1	H2	
	mm			kW	HP	kW	HP	mm													
HFS-HMSF95-1A-11kW/HMSF5-5	100	100	80	11	15	1.5	2	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-1A-11kW/HMSF5-6	100	100	80	11	15	1.5	2	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-1-15kW/HMSF5-6	100	100	80	15	20	1.5	2	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-2A-15kW/HMSF5-7	100	100	80	15	20	1.5	2	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-2A-15kW/HMSF5-9	100	100	80	15	20	2.2	3	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-2-18.5kW/HMSF5-7	100	100	80	18.5	25	1.5	2	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-2-18.5kW/HMSF5-9	100	100	80	18.5	25	2.2	3	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-1A-22kW/HMSF5-9	100	100	80	22	30	2.2	3	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-1-22kW/HMSF5-9	100	100	80	22	30	2.2	3	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-1-22kW/HMSF5-12	100	100	80	22	30	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-30kW/HMSF5-9	100	100	80	30	40	2.2	3	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-2-30kW/HMSF5-12	100	100	80	30	40	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-2-30kW/HMSF5-12	100	100	80	30	40	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-2-30kW/HMSF5-14	100	100	80	30	40	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-2-37kW/HMSF5-12	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-2-37kW/HMSF5-14	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-1A-37kW/HMSF5-12	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-1-37kW/HMSF5-12	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-1-37kW/HMSF5-14	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3A-37kW/HMSF5-14	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-37kW/HMSF5-14	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-37kW/HMSF5-16	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-45kW/HMSF5-14	100	100	80	45	60	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-3-45kW/HMSF5-16	100	100	80	45	60	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-3-37kW/HMSF5-16	100	100	80	37	50	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-3-45kW/HMSF5-16	100	100	80	45	60	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-2-45kW/HMSF5-14	100	100	80	45	60	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-2-45kW/HMSF5-16	100	100	80	45	60	3.7	5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-2-45kW/HMSF5-20	100	100	80	45	60	5.5	7.5	1675	1315	405	500	310	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-2-55kW/HMSF5-14	100	100	80	55	75	3.7	5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-2-55kW/HMSF5-16	100	100	80	55	75	3.7	5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-2-55kW/HMSF5-20	100	100	80	55	75	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-1-55kW/HMSF5-16	100	100	80	55	75	3.7	5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-1-55kW/HMSF5-20	100	100	80	55	75	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-4-55kW/HMSF5-20	100	100	80	55	75	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-5-2-75kW/HMSF5-24	100	100	80	75	100	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-5-1-75kW/HMSF5-24	100	100	80	75	100	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-5-75kW/HMSF5-20	100	100	80	75	100	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-5-75kW/HMSF5-24	100	100	80	75	100	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	
HFS-HMSF95-6-75kW/HMSF5-24	100	100	80	75	100	5.5	7.5	1975	1615	390	735	390	50	180	1341	800	732	34	273	788	

※ 모터 제조사에 따라 L, Lb, L1, L2, L3, L4, L5 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF125]

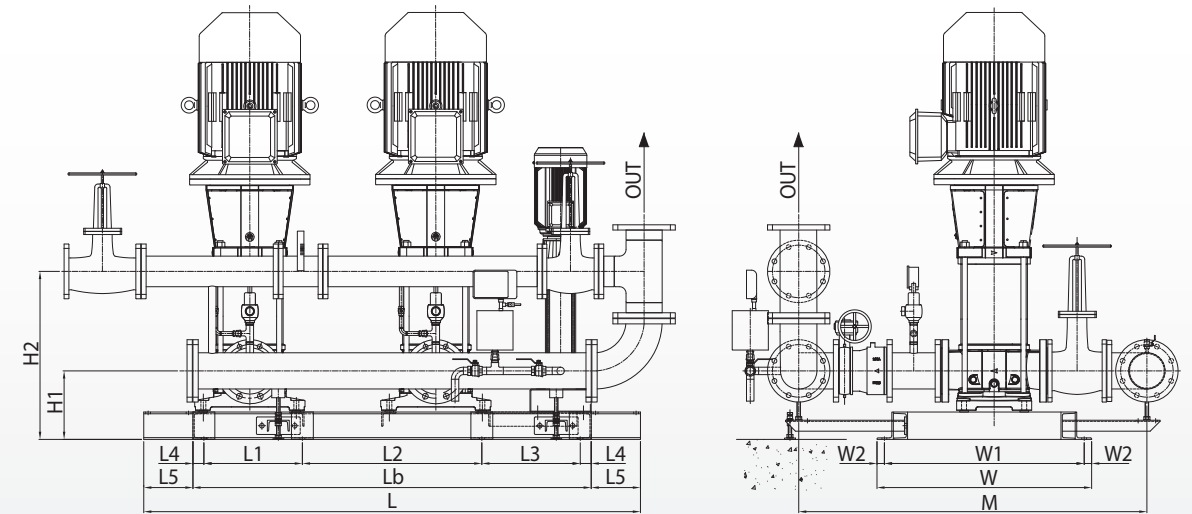


모델명 Model	모터 정격 kW	Q (m³/h) Q (LPM)	0	96	108	120 (대표)	138	150	162	180
			0	1600	1800	2000	2300	2500	2700	3000
HMSF125-1-1A	15	H (m)	33	30	29	27	23	20	17	
HMSF125-1A	15		42	39	37	36	32	30	26	21
HMSF125-1	18.5		47	44	42	41	38	35	32	27
HMSF125-2-2B	22		60	54	51	47	39	33	28	
HMSF125-2-2A	22		64	58	55	51	42	37	31	20
HMSF125-2-2	30		69	63	60	56	48	43	37	27
HMSF125-2-1A	30		74	70	68	65	58	53	47	37
HMSF125-2-1	37		86	80	78	75	68	63	56	46
HMSF125-2	37		97	91	88	85	80	74	68	58
HMSF125-3-3	37		103	97	93	87	74	65	56	37
HMSF125-3-2	45		122	115	110	105	96	89	80	64
HMSF125-3-1	55		128	121	117	112	102	93	83	67
HMSF125-3	55		143	138	135	131	122	115	104	89
HMSF125-4-3	75		152	146	142	135	123	114	103	85
HMSF125-4-2A	75		159	152	147	140	128	118	106	87
HMSF125-4	75		193	187	184	178	167	156	143	118
HMSF125-5-2	90		210	199	194	187	172	159	145	121
HMSF125-5	90		237	231	226	219	204	191	176	149

* 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정된 기준임.
 * 사양에 따라 주펌프와 충압 펌프 각각 선정하여 기중명 조합 기준임. 예) 주 펌프 사양 (1800LPM @ 100m), 충압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF125-3-2-45kW/HMSF5-12
 주 펌프 선정 - HMSF125-3-2-45kW, 충압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF125/HMSF5]

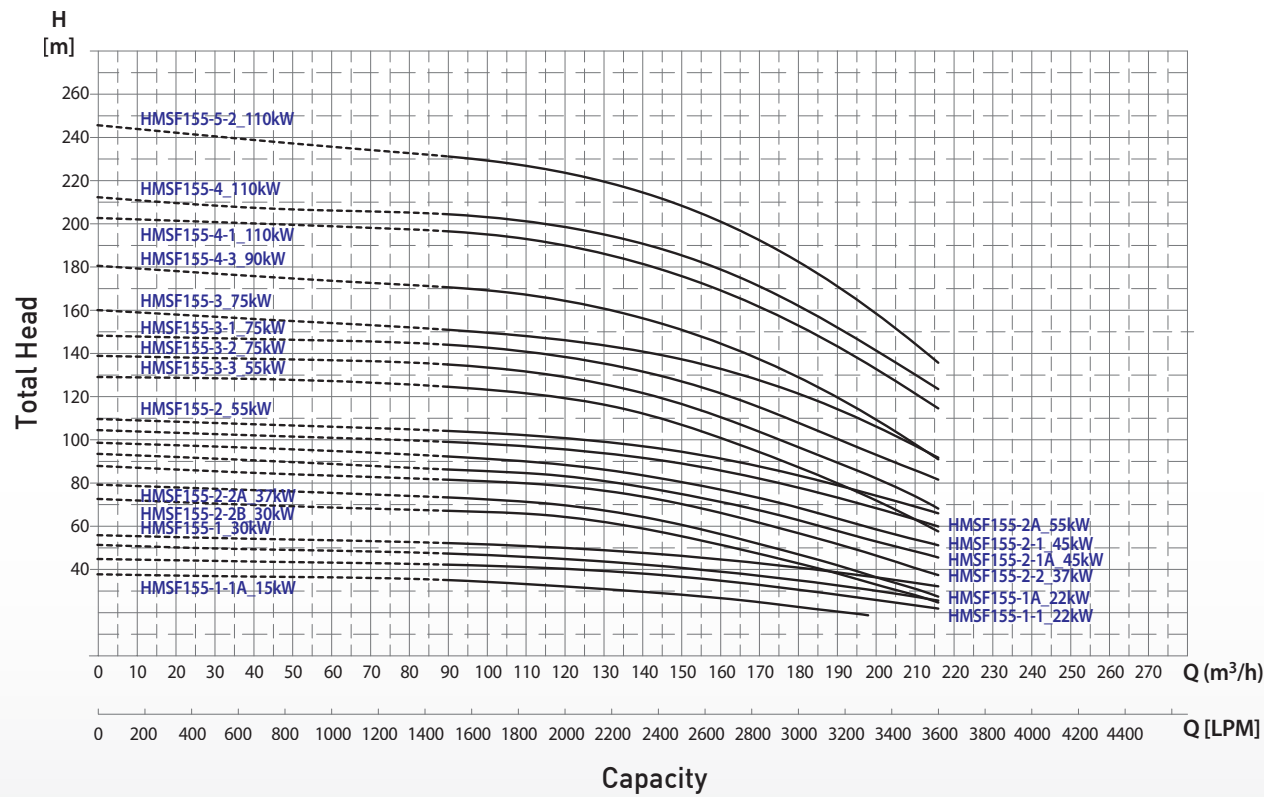


모델명 Model	배관			동력				외형치수													
	흡입	토출	시험	주		총압		L	Lb	L1	L2	L3	L4	L5	M	W	W1	W2	H1	H2	
	mm			kW	HP	kW	HP	mm													
HFS-HMSF125-1-1A-15kW/HMSF5-5	150	150	125	15	20	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-1A-15kW/HMSF5-6	150	150	125	15	20	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-1-18.5kW/HMSF5-6	150	150	125	18.5	25	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-1-18.5kW/HMSF5-7	150	150	125	18.5	25	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-2B-22kW/HMSF5-7	150	150	125	22	30	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-2A-22kW/HMSF5-7	150	150	125	22	30	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-2-30kW/HMSF5-7	150	150	125	30	40	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-2-30kW/HMSF5-9	150	150	125	30	40	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-1A-30kW/HMSF5-9	150	150	125	30	40	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-1-37kW/HMSF5-9	150	150	125	37	50	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-1-37kW/HMSF5-12	150	150	125	37	50	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-2-37kW/HMSF5-12	150	150	125	37	50	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-3-3-37kW/HMSF5-12	150	150	125	37	50	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-3-2-45kW/HMSF5-12	150	150	125	45	60	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-3-2-45kW/HMSF5-14	150	150	125	45	60	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-3-1-55kW/HMSF5-14	150	150	125	55	75	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-3-55kW/HMSF5-14	150	150	125	55	75	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-3-55kW/HMSF5-16	150	150	125	55	75	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF125-4-3-75kW/HMSF5-16	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF125-4-2A-75kW/HMSF5-20	150	150	125	75	100	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF125-4-75kW/HMSF5-16	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF125-4-75kW/HMSF5-20	150	150	125	75	100	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF125-5-2-90kW/HMSF5-20	150	150	125	90	120	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF125-5-2-90kW/HMSF5-24	150	150	125	90	120	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF125-5-90kW/HMSF5-24	150	150	125	90	120	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	

* 모터 제조사에 따라 L, Lb, L1, L2, L3, L4, L5 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF155]



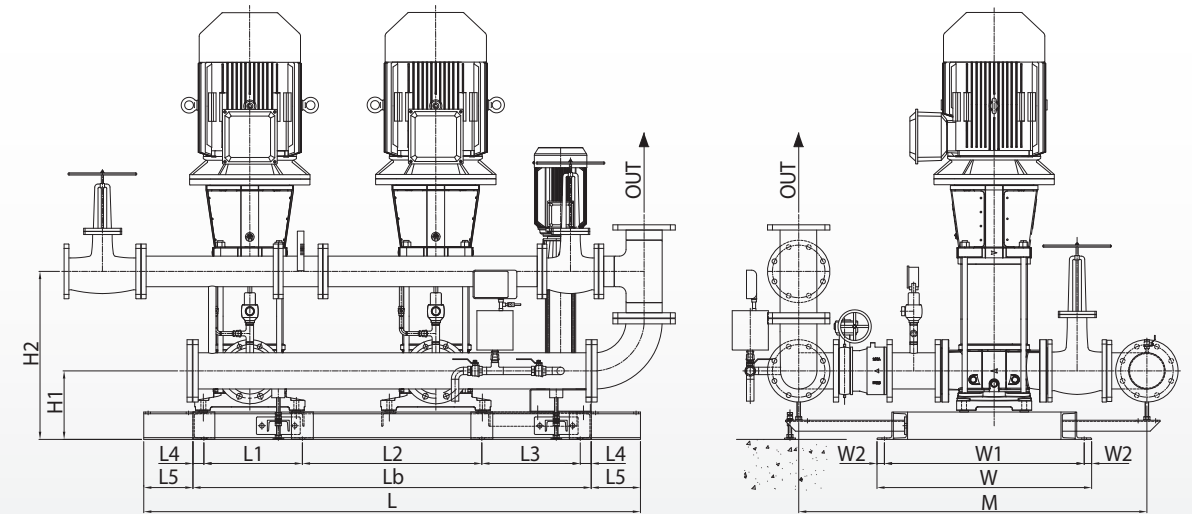
모델명 Model	모터 정격 kW	Q(m³/h) Q (LPM)	0	110	132	144 (대표)	156	198	216
			0	1833	2200	2400	2600	3300	3600
HMSF155-1-1A	15	H (m)	38	33	31	29	28	19	
HMSF155-1-1	22		45	41	39	38	36	27	22
HMSF155-1A	22		52	46	44	42	40	31	26
HMSF155-1	30		56	51	49	47	46	37	32
HMSF155-2-2B	30		73	66	62	58	53	34	25
HMSF155-2-2A	37		79	72	67	63	58	38	28
HMSF155-2-2	37		88	80	76	73	68	48	38
HMSF155-2-1A	45		94	85	81	77	73	54	46
HMSF155-2-1	45		99	90	86	83	79	60	51
HMSF155-2A	55		105	97	94	91	87	70	60
HMSF155-2	55		110	102	99	96	93	75	66
HMSF155-3-3	55		129	122	116	110	104	74	58
HMSF155-3-2	75		139	132	125	120	113	84	68
HMSF155-3-1	75		148	141	135	130	124	95	82
HMSF155-3	75		160	148	143	140	135	108	92
HMSF155-4-3	90		181	167	160	154	147	112	91
HMSF155-4-1	110		203	193	185	179	172	135	115
HMSF155-4	110		212	201	194	189	182	144	124
HMSF155-5-2	110		246	227	219	212	204	161	136

* 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정된 기준임.

* 사양에 따라 주펌프와 충압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (2400LPM @ 90m), 충압 펌프 사양 (60LPM @ 90m)인 경우 HFS-HMSF155-2A-55kW/HMSF5-12
주 펌프 선정 - HMSF155-2A-55kW, 충압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF155/HMSF5]

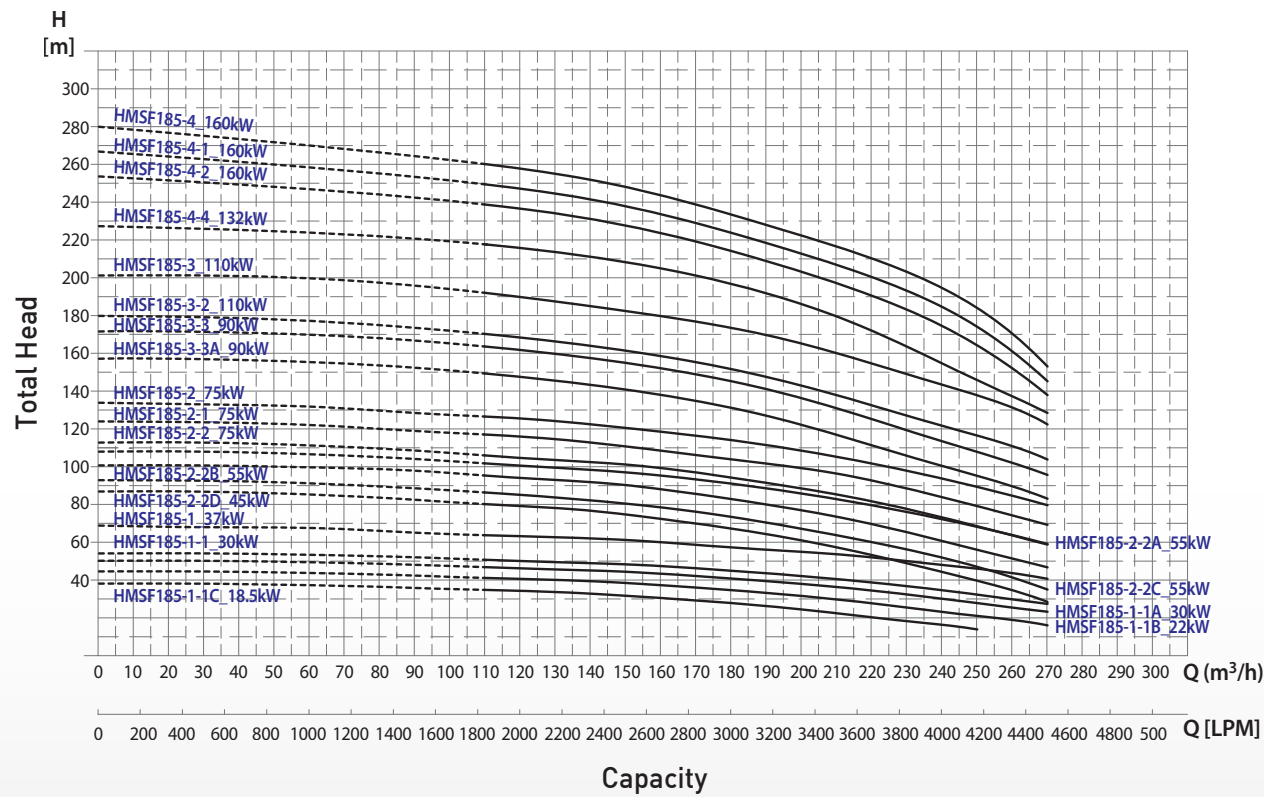


모델명 Model	배관			동력				외형치수													
	흡입	토출	시험	주		충압		L	Lb	L1	L2	L3	L4	L5	M	W	W1	W2	H1	H2	
	mm			kW	HP	kW	HP	mm													
HFS-HMSF155-1-1A-15kW/HMSF5-5	150	150	125	15	20	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-1-1A-15kW/HMSF5-6	150	150	125	15	20	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-1-1-22kW/HMSF5-6	150	150	125	22	30	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-1A-22kW/HMSF5-6	150	150	125	22	30	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-1A-22kW/HMSF5-7	150	150	125	22	30	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-1-30kW/HMSF5-7	150	150	125	30	40	1.5	2	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-2B-30kW/HMSF5-9	150	150	125	30	40	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-2A-37kW/HMSF5-9	150	150	125	37	50	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-2-37kW/HMSF5-9	150	150	125	37	50	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-2-37kW/HMSF5-12	150	150	125	37	50	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-1A-45kW/HMSF5-9	150	150	125	45	60	2.2	3	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-1-45kW/HMSF5-12	150	150	125	45	60	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2A-55kW/HMSF5-12	150	150	125	55	75	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-2-55kW/HMSF5-12	150	150	125	55	75	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-3-3-55kW/HMSF5-14	150	150	125	55	75	3.7	5	2000	1550	482.5	590	377.5	50	225	1591	981	913	34	313	980	
HFS-HMSF155-3-2-75kW/HMSF5-12	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-3-2-75kW/HMSF5-14	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-3-1-75kW/HMSF5-14	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-3-75kW/HMSF5-14	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-3-75kW/HMSF5-16	150	150	125	75	100	3.7	5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-4-3-90kW/HMSF5-20	150	150	125	90	120	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-4-1-110kW/HMSF5-20	150	150	125	110	150	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-4-1-110kW/HMSF5-24	150	150	125	110	150	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-4-110kW/HMSF5-24	150	150	125	110	150	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	
HFS-HMSF155-5-2-110kW/HMSF5-24	150	150	125	110	150	5.5	7.5	2270	1820	450	820	450	50	225	1591	981	913	34	313	980	

* 모터 제조사에 따라 L, Lb, L1, L2, L3, L4, L5 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF185]



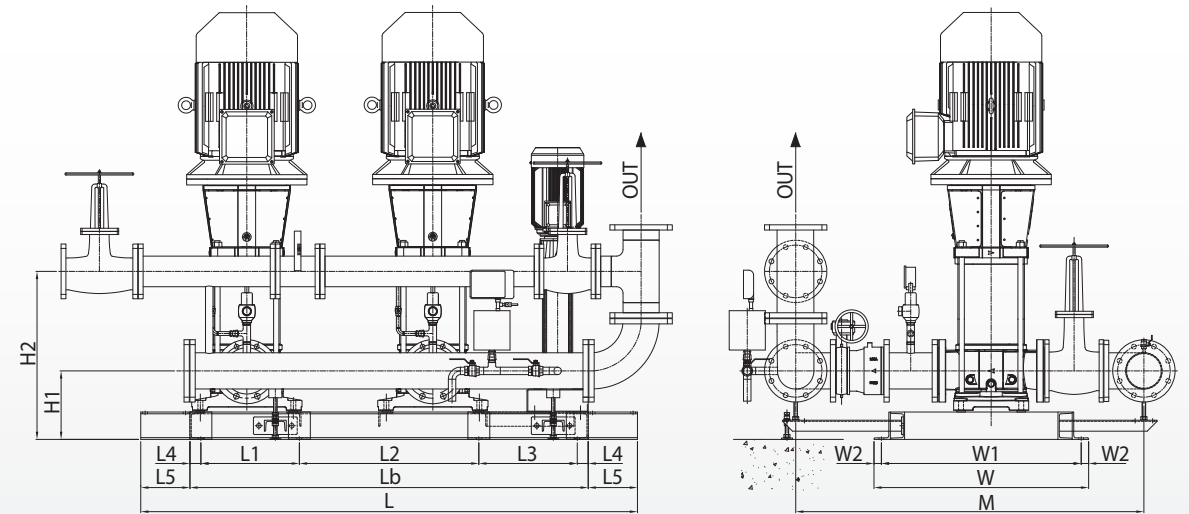
모델명 Model	모터 정격 kW	Q(m³/h) Q(LPM)	0	144	162	180(대표)	192	243	270
			0	2400	2700	3000	3200	4050	4500
HMSF185-1-1C	18.5	H (m)	38	32	30	28	26	15	
HMSF185-1-1B	22		44	39	37	34	33	22	16
HMSF185-1-1A	30		50	45	43	41	39	29	23
HMSF185-1-1	30		54	48	47	45	43	34	27
HMSF185-1	37		69	62	60	57	56	47	40
HMSF185-2-2D	45		87	76	72	67	63	43	28
HMSF185-2-2C	55		93	81	78	73	70	50	35
HMSF185-2-2B	55		100	91	87	83	79	59	46
HMSF185-2-2A	55		108	98	95	91	88	71	59
HMSF185-2-2	75		113	102	99	94	91	72	59
HMSF185-2-1	75		124	112	108	104	101	82	69
HMSF185-2	75		134	121	118	114	111	92	79
HMSF185-3-3A	90		157	142	137	131	126	99	83
HMSF185-3-3	90		171	156	151	145	140	112	95
HMSF185-3-2	90, 110		180	163	158	151	146	120	104
HMSF185-3	110		201	184	179	173	169	142	122
HMSF185-4-4	132		227	211	204	196	190	153	128
HMSF185-4-2	160		253	230	223	214	208	171	138
HMSF185-4-1	160		267	240	233	224	217	182	145
HMSF185-4	160		280	250	243	233	227	192	153

※ 모터 정격은 S.F(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정할 기준임.

※ 사양에 따라 주펌프와 충압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (3000LPM @ 100m), 충압 펌프 사양 (60LPM @ 100m)인 경우 HMSF185-2-1-75kW/HMSF5-12 주 펌프 선정 - HMSF185-2-1-75kW, 충압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF185/HMSF5]

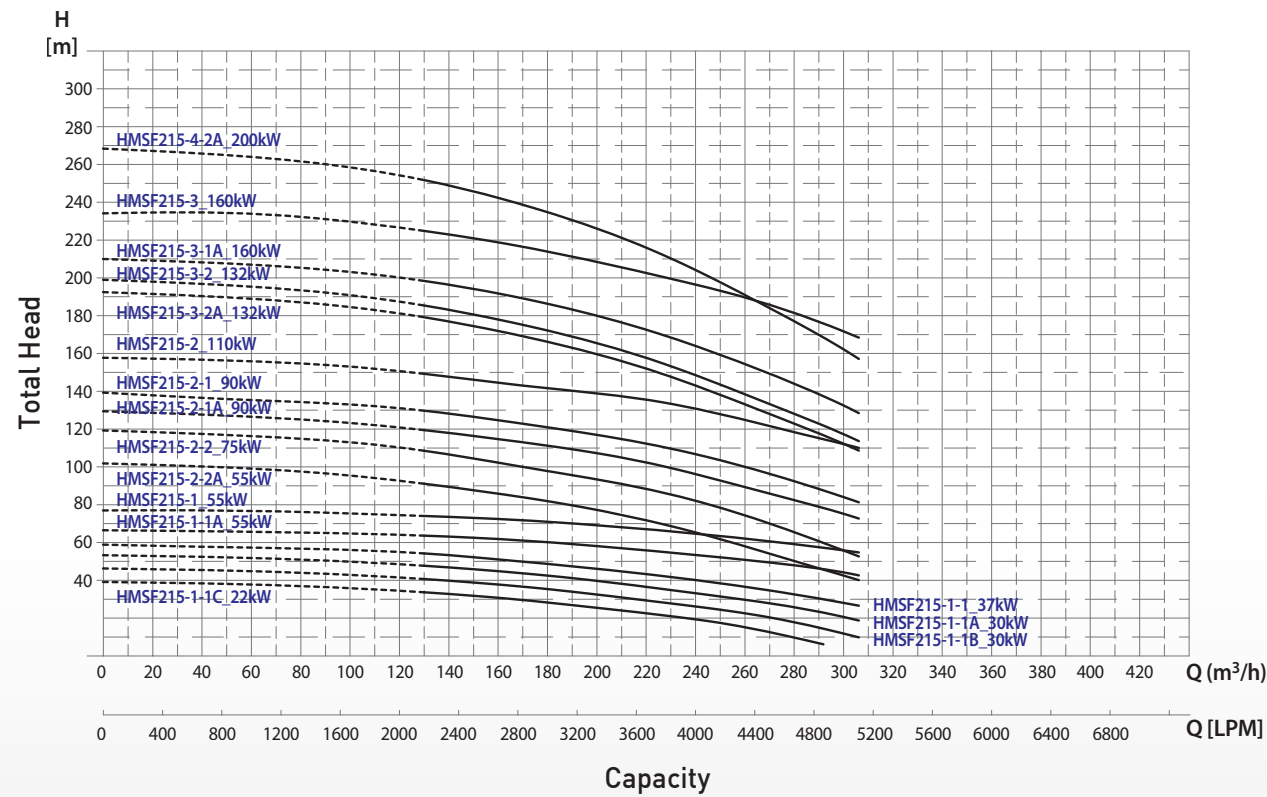


모델명 Model	배관			동력				외형치수												
	흡입	토출	시험	주		총압		L	Lb	L1	L2	L3	L4	L5	M	W	W1	W2	H1	H2
	mm	mm	mm	kW	HP	kW	HP	mm												
HFS-HMSF185-1-1C-18.5kW/HMSF5-5	200	200	150	18.5	25	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-1-1C-18.5kW/HMSF5-6	200	200	150	18.5	25	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-1-1B-22kW/HMSF5-6	200	200	150	22	30	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-1-1A-30kW/HMSF5-6	200	200	150	30	40	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-1-1-30kW/HMSF5-7	200	200	150	30	40	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-1-37kW/HMSF5-7	200	200	150	37	50	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-1-37kW/HMSF5-9	200	200	150	37	50	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-2D-45kW/HMSF5-9	200	200	150	45	60	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-2C-55kW/HMSF5-9	200	200	150	55	75	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-2C-55kW/HMSF5-12	200	200	150	55	75	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-2B-55kW/HMSF5-12	200	200	150	55	75	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-2A-55kW/HMSF5-12	200	200	150	55	75	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-2-75kW/HMSF5-12	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-1-75kW/HMSF5-12	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-1-75kW/HMSF5-14	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-75kW/HMSF5-12	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-2-75kW/HMSF5-14	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-3A-75kW/HMSF5-14	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-3A-75kW/HMSF5-16	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-3A-90kW/HMSF5-14	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-3A-90kW/HMSF5-16	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-3-90kW/HMSF5-16	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-3-90kW/HMSF5-20	200	200	150	90	120	5.5	7.5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-2-90kW/HMSF5-16	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-2-90kW/HMSF5-20	200	200	150	90	120	5.5	7.5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-2-110kW/HMSF5-16	200	200	150	110	150	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-2-110kW/HMSF5-20	200	200	150	110	150	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-3-110kW/HMSF5-20	200	200	150	110	150	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-4-132kW/HMSF5-24	200	200	150	132	185	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-2-132kW/HMSF5-20	200	200	150	132	185	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-2-132kW/HMSF5-24	200	200	150	132	185	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-2-160kW/HMSF5-20	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-2-160kW/HMSF5-24	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-1-132kW/HMSF5-24	200	200	150	132	185	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-1-160kW/HMSF5-24	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171
HFS-HMSF185-4-160kW/HMSF5-24	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171

※ 모터 제조사에 따라 L, Lb, L1, L2, L3, L4, L5 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF215]



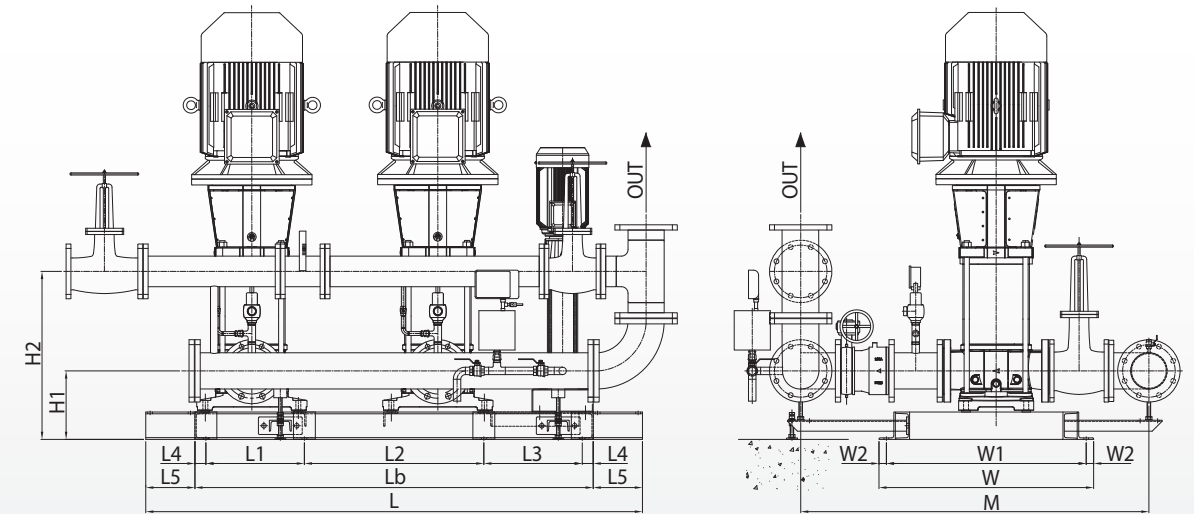
모델명 Model	모터 정격 kW	Q(m³/h) Q (LPM)	0	162	180	204 (대표)	216	243	306	총압펌프	3.6 60
			0	2700	3000	3400	3600	4050	5100		
HMSF215-1-1C	22	H (m)	39	31	28	25	23	18		HMSF5-4	34
HMSF215-1-1B	30		46	38	35	32	30	26	10	HMSF5-5	44
HMSF215-1-1A	30		53	45	43	39	37	33	19	HMSF5-6	53
HMSF215-1-1	37		59	51	49	46	44	40	27	HMSF5-7	63
HMSF215-1A	55		66	62	60	58	56	53	43	HMSF5-9	79
HMSF215-1	55		77	72	71	69	67	64	55	HMSF5-12	105
HMSF215-2-2A	55		102	86	82	76	73	64	40	HMSF5-14	122
HMSF215-2-2	75		119	102	98	92	89	81	53	HMSF5-16	141
HMSF215-2-1A	90		129	114	111	106	103	95	73	HMSF5-18	161
HMSF215-2-1	90		139	124	121	116	113	106	81	HMSF5-20	181
HMSF215-2	110		158	144	142	138	136	130	110	HMSF5-22	199
HMSF215-3-2A	132		192	171	166	158	154	142	109	HMSF5-24	212
HMSF215-3-2	132		199	177	172	164	159	142	114	HMSF5-29	257
HMSF215-3-1A	160		210	191	186	179	174	163	128		
HMSF215-3	160		234	218	214	207	204	195	168		
HMSF215-4-2A	200		268	242	235	224	218	202	157		

* 모터 정격은 S.F.(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정된 기준임.

* 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (3000LPM @ 100m), 총압 펌프 사양 (60LPM @ 100m)인 경우 HFS-HMSF215-2-1A-90kW/HMSF5-12 주 펌프 선정 - HMSF215-2-1A-90kW, 총압 펌프 선정 - HMSF5-12

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF215/HMSF5]

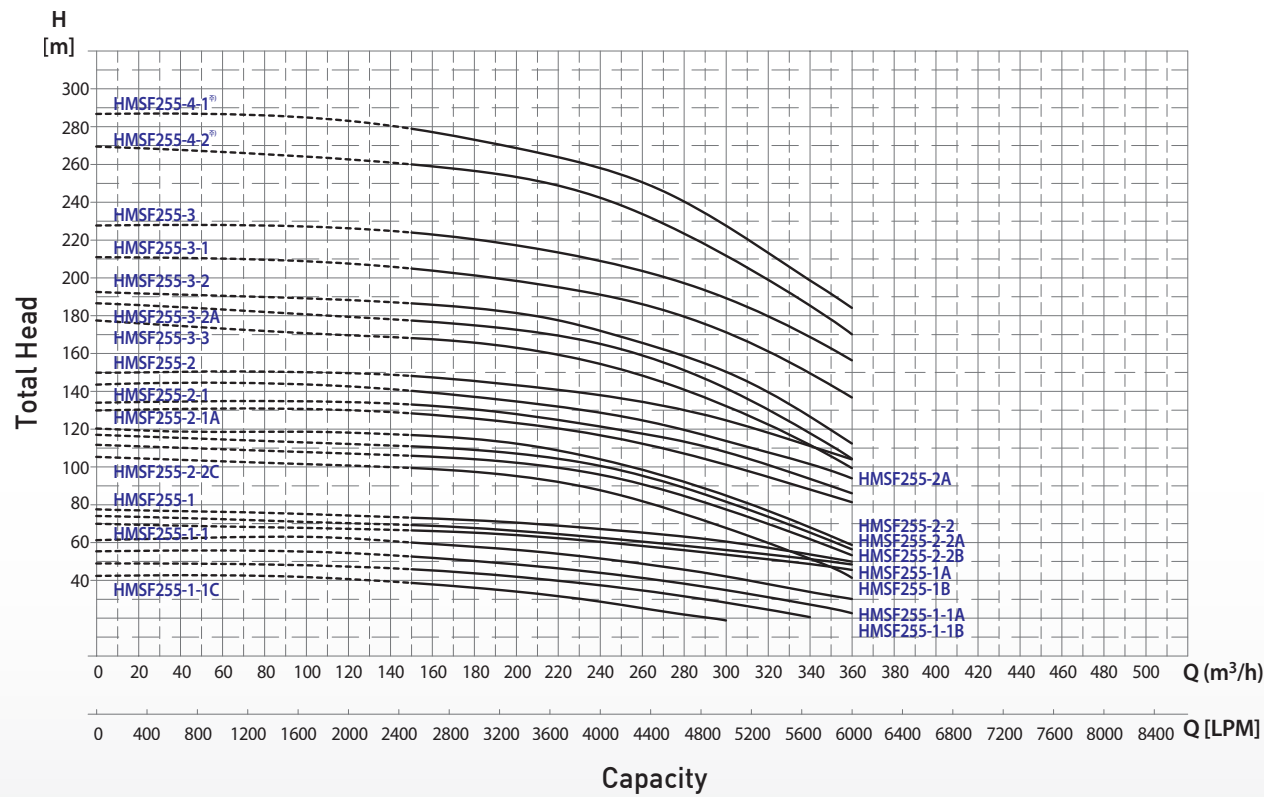


모델명 Model	배관			동력				외형치수													
	흡입	토출	시험	주		총압		L	Lb	L1	L2	L3	L4	L5	M	W	W1	W2	H1	H2	
	mm			kW	HP	kW	HP	mm													
HFS-HMSF215-1-1C-18.5kW/HMSF5-5	200	200	150	18.5	25	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1-1C-22kW/HMSF5-5	200	200	150	22	30	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1-1B-30kW/HMSF5-6	200	200	150	30	40	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1-1A-30kW/HMSF5-6	200	200	150	30	40	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1-1-37kW/HMSF5-7	200	200	150	37	50	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1A-55kW/HMSF5-7	200	200	150	55	75	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1A-55kW/HMSF5-9	200	200	150	55	75	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-1-55kW/HMSF5-9	200	200	150	55	75	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-2A-55kW/HMSF5-12	200	200	150	55	75	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-2A-75kW/HMSF5-12	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-2-75kW/HMSF5-12	200	200	150	75	100	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-1A-90kW/HMSF5-12	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-1A-90kW/HMSF5-14	흡입	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-1-90kW/HMSF5-14	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-110kW/HMSF5-14	200	200	150	110	150	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-2-110kW/HMSF5-16	200	200	150	110	150	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-2A-132kW/HMSF5-16	200	200	150	132	185	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-2A-132kW/HMSF5-20	200	200	150	132	185	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-2-132kW/HMSF5-20	200	200	150	132	185	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-1A-160kW/HMSF5-20	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-1A-160kW/HMSF5-24	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-160kW/HMSF5-20	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-3-160kW/HMSF5-24	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-4-2A-160kW/HMSF5-24	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF215-4-2A-200kW/HMSF5-24	200	200	150	200	268	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	

* 모터 제조사에 따라 L, Lb, L1, L2, L3, L4, L5 달라질 수 있음.

성능 곡선도 Performance Curve

[HFS-HMSF255]

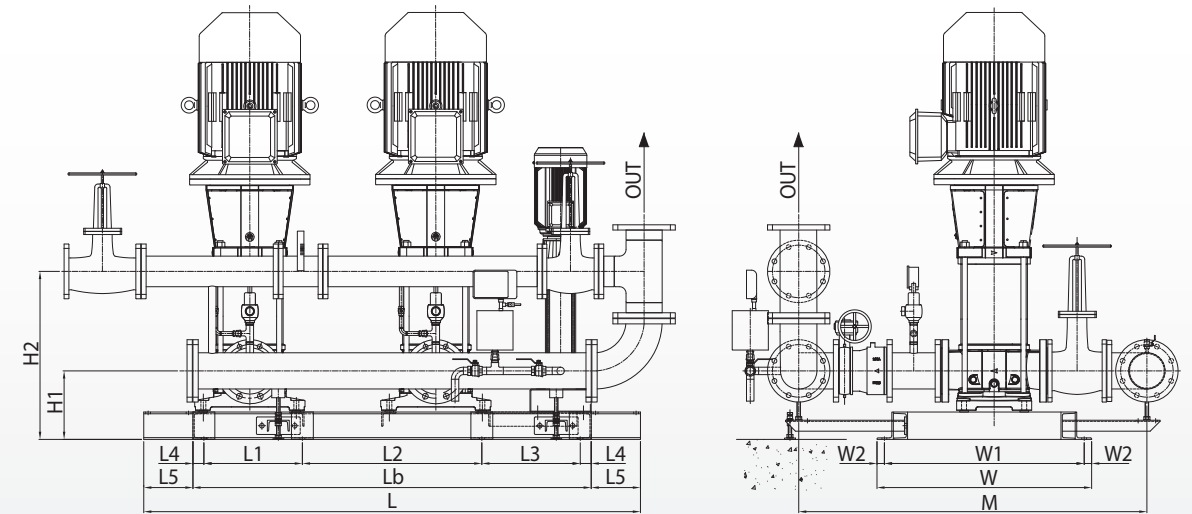


모델명 Model	모터 정격 kW	Q (m³/h) Q (LPM)	0	180	210	240 (대표)	300	330	360
			0	3000	3500	4000	5000	5500	6000
HMSF255-1-1C	30	H (m)	42	36	33	28	18		
HMSF255-1-1B	37		49	43	40	37	28	22	
HMSF255-1-1A	45		55	50	47	44	34	29	22
HMSF255-1-1	45		61	57	55	51	42	36	30
HMSF255-1B	55		70	65	63	60	53	50	45
HMSF255-1A	55		74	68	65	62	55	52	48
HMSF255-1	75		77	71	69	67	60	55	50
HMSF255-2-2C	90		105	97	93	87	67	55	41
HMSF255-2-2B	90		111	104	101	96	77	66	53
HMSF255-2-2A	90		117	109	106	100	81	69	56
HMSF255-2-2	90		120	114	110	104	85	72	58
HMSF255-2-1A	110		130	125	122	117	101	92	83
HMSF255-2-1	110		133	131	126	121	108	97	86
HMSF255-2A	132		143	137	133	128	113	104	94
HMSF255-2	132		150	145	142	138	124	114	104
HMSF255-3-3	160		177	166	161	154	132	117	99
HMSF255-3-2A	160		186	175	171	165	141	124	104
HMSF255-3-2	160		192	184	180	172	150	133	112
HMSF255-3-1	200		211	201	197	191	171	155	136
HMSF255-3	200		228	221	215	209	189	174	156
HMSF255-4-2	225		270	256	251	243	216	195	170
HMSF255-4-1	225		287	273	266	258	227	206	184

* 모터 정격은 S.F.(Service Factor 1.15)를 고려한 선정 기준임. 유량 150%에서의 축동력은 모터 정격의 110% 이내로 선정한 기준임. * 주) 4단 기종 선정 시 본사 의뢰 필요함.
 * 사양에 따라 주펌프와 총압 펌프 각각 선정하여 기종명 조합 기준임. 예) 주 펌프 사양 (4000LPM @ 110m), 총압 펌프 사양 (60LPM @ 110m)인 경우 HFS-HMSF255-2-1A-110kW/HMSF5-14
 주 펌프 선정 - HMSF255-2-1A-110kW, 총압 펌프 선정 - HMSF5-14

외형도 & 외형 치수표 Outline Drawing & Outline Dimension

[HFS-HMSF255/HMSF5]



모델명 Model	배관			동력				외형치수													
	흡입	토출	시험	주		총압		L	Lb	L1	L2	L3	L4	L5	M	W	W1	W2	H1	H2	
	mm			kW	HP	kW	HP	mm													
HFS-HMSF255-1-1C-30kW/HMSF5-5	200	200	150	30	40	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1-1B-37kW/HMSF5-6	200	200	150	37	50	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1-1A-45kW/HMSF5-6	200	200	150	45	60	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1-1-45kW/HMSF5-7	200	200	150	45	60	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1B-55kW/HMSF5-7	200	200	150	55	75	1.5	2	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1B-55kW/HMSF5-9	200	200	150	55	75	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1A-55kW/HMSF5-9	200	200	150	55	75	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-1-75kW/HMSF5-9	200	200	150	75	100	2.2	3	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-2C-90kW/HMSF5-12	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-2B-90kW/HMSF5-12	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-2A-90kW/HMSF5-12	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-2-90kW/HMSF5-12	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-2-90kW/HMSF5-14	200	200	150	90	120	3.7	5	2174	1650	515	670	365	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-1A-110kW/HMSF5-12	200	200	150	110	150	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-1-110kW/HMSF5-12	200	200	150	110	150	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-1-110kW/HMSF5-14	200	200	150	110	150	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2A-132kW/HMSF5-14	200	200	150	132	185	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2A-132kW/HMSF5-16	200	200	150	132	185	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-132kW/HMSF5-14	200	200	150	132	185	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-2-132kW/HMSF5-16	200	200	150	132	185	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-3-160kW/HMSF5-16	200	200	150	160	214	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-3-160kW/HMSF5-20	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-2A-160kW/HMSF5-20	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-2-160kW/HMSF5-16	200	200	150	160	214	3.7	5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-2-160kW/HMSF5-20	200	200	150	160	214	5.5	7.5	2374	1850	580	770	400	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-1-200kW/HMSF5-20	200	200	150	200	268	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-1-200kW/HMSF5-24	200	200	150	200	268	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-200kW/HMSF5-20	200	200	150	200	268	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-3-200kW/HMSF5-24	200	200	150	200	268	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-4-2-225kW/HMSF5-24	200	200	150	225	300	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	
HFS-HMSF255-4-1-225kW/HMSF5-24	200	200	150	225	300	5.5	7.5	2574	2050	580	920	450	50	262	1909	1200	1120	40	358	1171	

* 모터 제조사에 따라 L, Lb, L1, L2, L3, L4, L5 달라질 수 있음.