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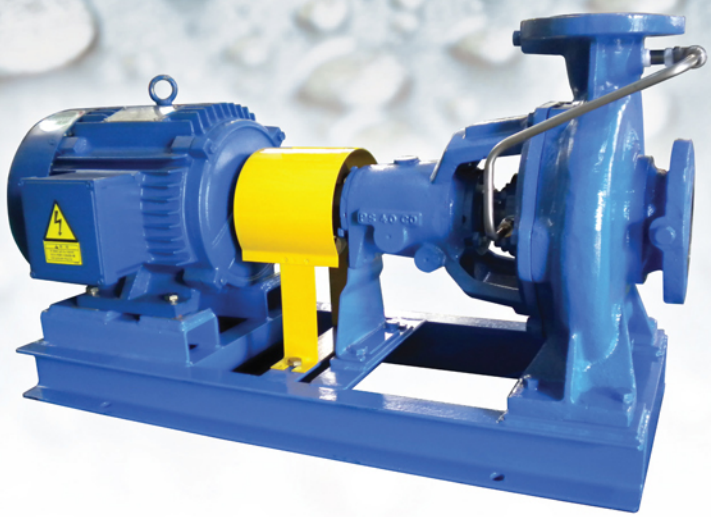
GREEN TECH PUMP

GPS

편흡입 단단 벌류트 펌프



GREEN TECH Co., Ltd.
Pump & System Engineering

GPS

SINGLE SUCTION VOLUTE PUMP

SINGLE SUCTION VOLUTE PUMP/ 편흡입 단단 벌류트 펌프

Usages and Applications / 용도 및 적용분야

- For clear liquids–fresh water & seawater
- For general industrial & waterworks
- For household water supply & building water treatment
- For irrigation water & building water treatment
- For air conditioning & spray (sprinkler)
- For cooling or heating & circulation

- 맑은 액체용–청수 및 해수
- 일반산업용 및 급수 시설용
- 가정용수 공급용 및 빌딩 수처리용
- 관개용수용 및 빌딩 수처리용
- 공기조화용 및 스프레이용 (스프링쿨러용)
- 냉각 또는 가열 순환용

Design and Operation Features / 설계 및 구조적 특징

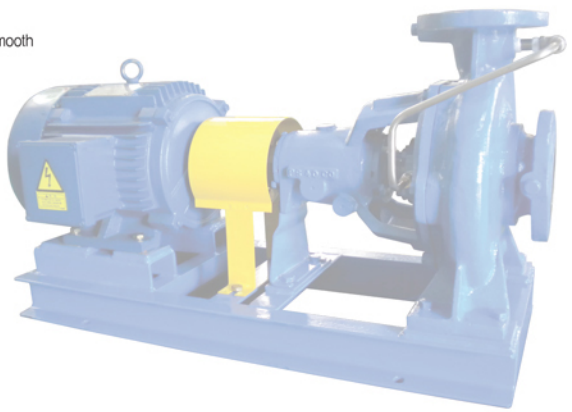
- 3D designed Impeller for easier flow of water.
- KS B 7501(ISO 3069) dimension adopted stuffing box for easier installation and simpler maintenance when mechanical seal is used.
- Standardized design allows wide range of usages.
- Convenient maintenance with back pull–out structure.
- Stability of piping load and good balance in pump operation as the discharge bore is located at the upper center.
- Products optimized through design of vibration & noise analysis.

- 임펠러 내의 물의 흐름이 용이하도록 설계된 3차원 임펠러를 사용하였습니다.
- Stutting Box는 KS B 7501(ISO 3069)의 Dimension을 채택하였으므로 Mechanical Seal 사용시 장착이 쉽고 유지보수가 간편합니다.
- 제품의 표준화 설계로 인하여 단일품목으로 광범위한 사용 영역을 지니고 있습니다.
- Back Pull–Out구조로 유지보수가 편리합니다.
- 토출부가 중앙상부에 위치하여 배관하중에 대한 안전성과 펌프가동 시 Blance가 유지됩니다.
- 진동, 소음분석 설계를 통한 최적의 제품입니다.

Advantages of Single Suction Volute Pump / 단단 벌류트펌프의 장점

- Manufactured with high efficiency design.
- Improved durability.
  (one grade higher bearing grade than other products)
- Design conforming to outline dimensions of KS Standards
  (wide range of compatibility)
- Solid and a wide range of usability with 10kgf/㎠ applied design.
- Shaft installed on sleeve to lengthen its span.
- Shell core applied on flow channel of Impeller to make the inside smooth and reduce flow loss.

- 고효율설계로 제작되었습니다.
- 내구성을 높였습니다.
  (타제품보다 Bearing Grade가 한단계 높습니다)
- KS규격의 외형치수에 준한 설계
  (광범위의 제품호환성)
- 10kgf/㎠ 적용설계로 견고하며 사용가능 범위가 넓습니다.
- Shaft에 Sleeve가 장착되어 Shaft수명이 깁니다.
- 임펠러의 수로부는 Shell Core를 적용하여 내면을 매끈하게 하여 흐름손실을 줄였습니다.



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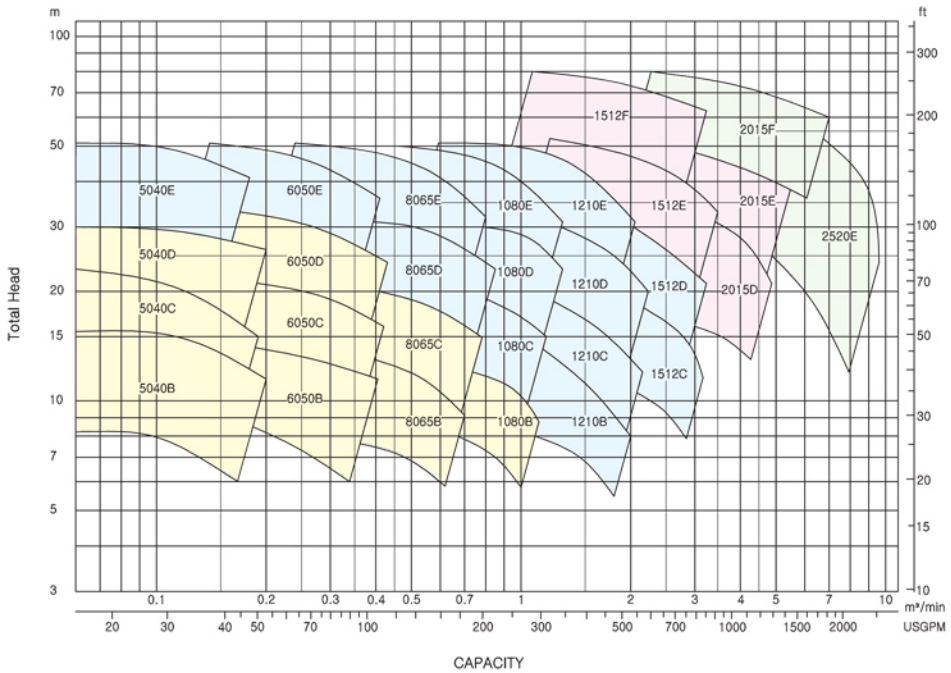
Model (형식)	FIG	Motor [kW]	Pump & Motor											Bed								Weight [kg]	
			A	B	C	D	E	F	H	K	L	R	T	Ba	Bd	Bh	Bb	Bc	Be	Bf	Bz	P·B	P·B·M
GPS-8065D	A	7.5	1057	226	258	464	185	213	285	370	100	470	535	950	410	85	600	175	375	40	15	122	202
	B	11	1168	272	323	517	160	265	310	370	100	470	560	1100	440	110	400	150	395	50	19	134	251
	B	15	1212	294	345	517	1601	265	310	370	100	470	560	1100	440	110	400	150	395	50	19	134	273
GPS-8065E	B	11	1193	272	323	542	85	265	335	410	125	470	615	1100	440	110	400	150	395	50	19	154	271
	B	15	1237	294	345	542	185	265	335	410	125	470	615	1100	440	110	400	150	395	50	19	154	293
	B	18.5,22	1243	293	352	581	185	286	335	410	125	470	615	1150	440	110	425	150	395	50	19	154	331,339
GPS-1080B	A	3.7	857	169	200	427	177.5	187	265	310	125	360	490	750	350	85	500	125	315	40	15	86	129
	A	5.5	932	205	239	444	202.5	213	265	310	125	360	490	850	350	85	550	150	315	40	15	92	158
	A	7.5	972	226	258	444	202.5	213	265	310	125	360	490	850	350	85	550	150	315	40	15	92	172
GPS-1080C	A	5.5	1042	205	239	444	222	213	265	330	125	470	515	1000	470	85	660	170	440	40	15	116	182
	A	7.5	1082	226	258	444	222	213	265	330	125	470	515	1000	470	85	660	170	440	40	15	116	196
	A	11	1193	272	323	497	229.5	265	290	330	125	470	540	1050	440	110	600	225	395	50	19	120	237
GPS-1080D	B	11	1193	272	323	517	185	265	310	380	125	470	590	1100	440	110	400	150	395	50	19	137	254
	B	15	1237	294	345	517	185	265	310	380	125	470	590	1100	440	110	400	150	395	50	19	137	276
	B	18.5,22	1243	293	352	556	185	286	310	380	125	470	590	1100	440	110	400	150	395	50	19	137	314,322
GPS-1080E	B	18.5,22	1243	293	352	606	185	286	360	435	125	470	675	1150	440	110	425	150	395	50	19	158	335,343
	B	30	1288	319	371	606	185	286	360	435	125	470	675	1150	440	110	425	150	395	50	19	158	368
GPS-1210B	A	5.5	1042	205	239	464	210	213	285	360	125	470	565	950	410	85	600	175	375	40	15	119	185
	A	7.5	1082	226	258	464	210	213	285	360	125	470	565	950	410	85	600	175	375	40	15	119	199
	B	11	1193	272	323	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	131	248
	B	15	1237	294	345	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	131	270
GPS-1210C	A	7.5	1082	226	258	464	210	213	285	360	125	470	565	950	410	85	600	175	375	40	15	124	204
	B	11	1193	272	323	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	136	253
	B	15	1237	294	345	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	136	275
GPS-1210D	B	15	1252	294	345	542	200	265	335	390	140	470	615	1100	440	110	400	150	395	50	19	147	286
	B	18.5,22	1258	293	352	581	200	286	335	390	140	470	615	1150	440	110	425	150	395	50	19	147	324,332
GPS-1210E	B	18.5,22	1258	293	352	606	200	286	360	460	140	470	675	1150	440	110	425	150	395	50	19	166	343,351
	B	30	1303	319	371	606	200	286	360	460	140	470	675	1150	440	110	425	150	395	50	19	166	376
	B	37	1433	394	426	616	175	368	360	460	140	470	675	1250	440	110	500	125	395	50	19	169	459,479
GPS-1512C	B	15	1252	294	345	567	200	265	360	405	140	470	675	1100	440	110	400	150	395	50	19	156	376
	B	18.5,22	1258	293	352	606	200	286	360	405	140	470	675	1150	440	110	425	150	395	50	19	156	333,341
GPS-1512D	B	18.5,22	1258	293	352	606	200	286	360	420	140	470	715	1150	440	110	425	150	395	50	19	160	337,345
	B	30	1303	319	371	606	200	286	360	420	140	470	715	1150	440	110	425	150	395	50	19	160	370
	B	37/45	1433	394	426	610	200	368	360	420	140	470	715	1250	440	110	500	125	395	50	19	163	453,473
GPS-1512E	B	30	1363	319	371	641	180	286	395	495	140	530	750	1300	560	115	500	150	515	50	19	208	418
	B	37/45	1493	394	426	651	155	368	395	495	140	530	750	1350	560	115	550	125	515	50	19	208	498,518
	B	55	1508	390	445	715	185	425	417	495	140	530	772	1300	560	137	500	150	500	65	23	220	560
GPS-1512F	B	30	1363	319	371	666	180	286	430	563	140	530	830	1200	560	115	450	150	515	50	19	255	465
	B	37/45	1493	394	426	686	135	368	430	563	140	530	830	1350	570	115	550	125	505	65	23	272	562,582
	B	55	1508	390	445	748	135	425	450	563	140	530	850	1350	570	135	550	125	505	65	23	272	612
	B	75	1559	407.5	478.5	782	185	428	450	563	140	530	855	1450	570	135	550	175	505	65	23	280	770
GPS-2015D	B	30	1383	319	371	641	187	286	395	550	160	530	770	1300	560	115	500	150	515	50	19	206	416
	B	37/45	1493	394	426	651	162	368	395	550	160	530	770	1350	560	115	550	125	515	50	19	206	496,516
	B	55	1528	390	445	693	187	425	395	550	160	530	770	1300	560	115	500	150	515	50	19	206	546
GPS-2015E	B	37,45	1514	395	426	680	193	334	430	600	160	530	830	1300	580	115	500	150	535	50	19	236	526,546
	B	55	1527	393	441	700	193	425	430	600	160	530	830	1300	580	115	500	150	535	50	19	236	576
	B	75	1579	407.5	478.5	787	218	428	455	600	160	530	855	1450	610	140	550	175	550	65	23	261	751
	B	90	1579	407.5	478.5	787	218	428	455	600	160	530	855	1450	610	140	550	175	550	65	23	261	781
	B	110	1833	596	544	1006	218	–	455	600	160	530	855	1550	610	140	600	175	550	65	23	271	1111
	B	132	1833	596	544	1006	218	–	455	600	160	530	855	1550	610	140	600	175	550	65	23	271	1131
GPS-2015F	B	37,45	1513	394	426	686	190	368	430	625	160	530	880	1300	580	115	500	150	535	50	19	280	570,590
	B	55	1528	390	445	728	190	425	430	625	160	530	880	1300	580	115	500	150	535	50	19	280	620
	B	75	1579	407.5	478.5	787	215	428	455	625	160	530	905	1450	610	140	550	175	550	65	23	305	795
	B	90	1579	407.5	478.5	787	215	428	455	625	160	530	905	1450	610	140	550	175	550	65	23	305	825
	B	110,132	1833	596	544	1006	215	–	455	625	160	530	905	1550	610	140	600	175	550	65	23	315	1155,1175
	B	160	1924	642	589	1097	215	–	535	625	160	530	985	1650	700	220	650	175	620	80	27	340	1440
	B	200	1924	616.5	614.5	1097	215	–	535	625	160	530	985	1650	700	220	650	175	620	80	27	340	1440
GPS-2520E	B	55	1594	390	445	788	195	425	490	596	200	556	920	1350	620	140	550	125	560	65	23	352	692
	B	75	1645	407.5	478.5	822	265	428	490	596	200	556	920	1450	610	140	550	175	550	65	23	361	851
	B	90	1645	407.5	478.5	822	265	428	490	596	200	556	920	1450	610	140	550	175	550	65	23	361	881
	B	110	1899	596	544	1041	270	–	490	596	200	556	920	1600	620	140	600	200	560	65	23	379	1219
	B	132	1899	596	544	1041	270	–	490	596	200	556	920	1600	620	140	600	200	560	65	23	379	1239

GPS

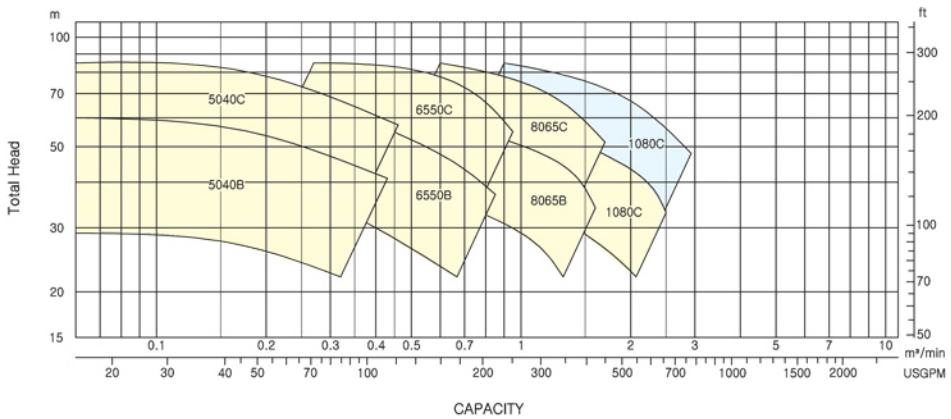
SINGLE SUCTION VOLUTE PUMP

Selection Chart / 선정도

60Hz, 4P (1800 RPM)



60Hz, 2P (3600 RPM)



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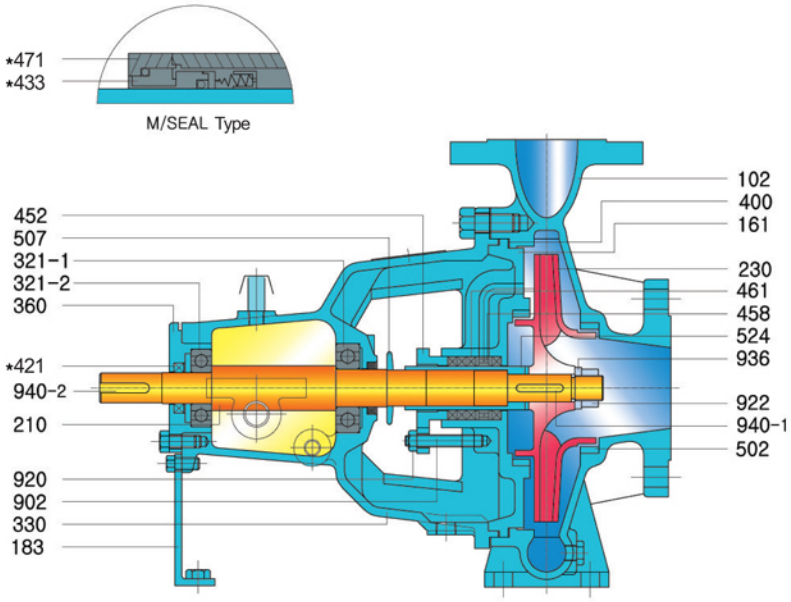
Sectional Drawing / 조립 단면도



Legends (범례)

* : Option Parts (선택부품)

: Recommended Spare Parts (추천예비품)

Part No. (품번)	Part Name (부품명)	Standard Material (표준재질)		Q'ty (수량)
		ASTM	KS	
102	Volute Casing	A48-CL30	GC200	1
161	Casing Cover	A48-CL30	GC200	1
183	Support	A36	SS400	1
210	Shaft	A108-1045	SM45C	1
#230	Impeller	A48-CL30	GC200	1
#321-1	Ball Bearing(A)	A295-52100	STB2	1
#321-2	Ball Bearing(B)	A295-52100	STB2	1
330	Bearing Housing	A48-CL30	GC200	1
360	Bearing Cover	A48-CL30	GC200	1
#400	Casing Gasket	NBR	NBR	1
*421	Oil Seal	NBR	NBR	1
*433	Mechanical Seal	SiC/Carbon	SiC/Carbon	1
452	Gland	A48-CL30	GC200	1

Part No. (품번)	Part Name (부품명)	Standard Material (표준재질)		Q'ty (수량)
		ASTM	KS	
458	Lantern Ring	B584-C83600	CAC406	1
#461	Gland Packing	TEFLON	TEFLON	4
*471	M/Seal Cover	A276-304	STS304	1
#502	Casing Ring	A48-CL30	GC200	1
507	Thrower	RUBBER	RUBBER	1
#524	Sleeve	A276-304	STS304	1
902	Gland Bolt	A276-304	STS304	2/4
920	Hexagon Nut	A276-304	STS304	2/4
922	Impeller Nut	A36	SS400	1
936	Impeller Washer	A276-304	STS304	1
940-1	Key (Impeller)	A108-1045	SM45C	1
940-2	Key (Coupling)	A108-1045	SM45C	1
-	-	-	-	-

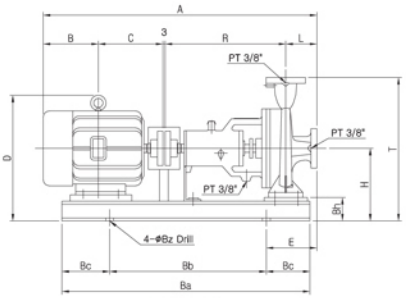
GPS

SINGLE SUCTION VOLUTE PUMP

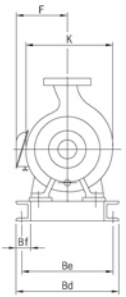
Outline Drawing / 외형 치수도

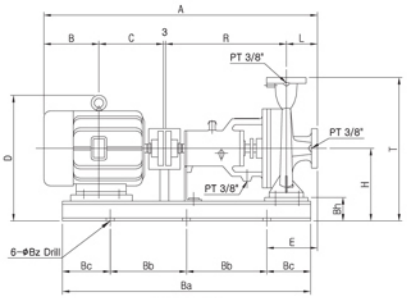
*Dimensions on the Motor could be different according to the manufacturer.
MOTOR측 치수는 제조 업체에 따라 다를 수 있습니다.

GPS	65	50	D
Model Name (펌프 모델명)	Suction Bore (흡입구경) [65mm]	Discharge Bore (토출구경) [50mm]	Total Head (전양정)



[FIG. A]





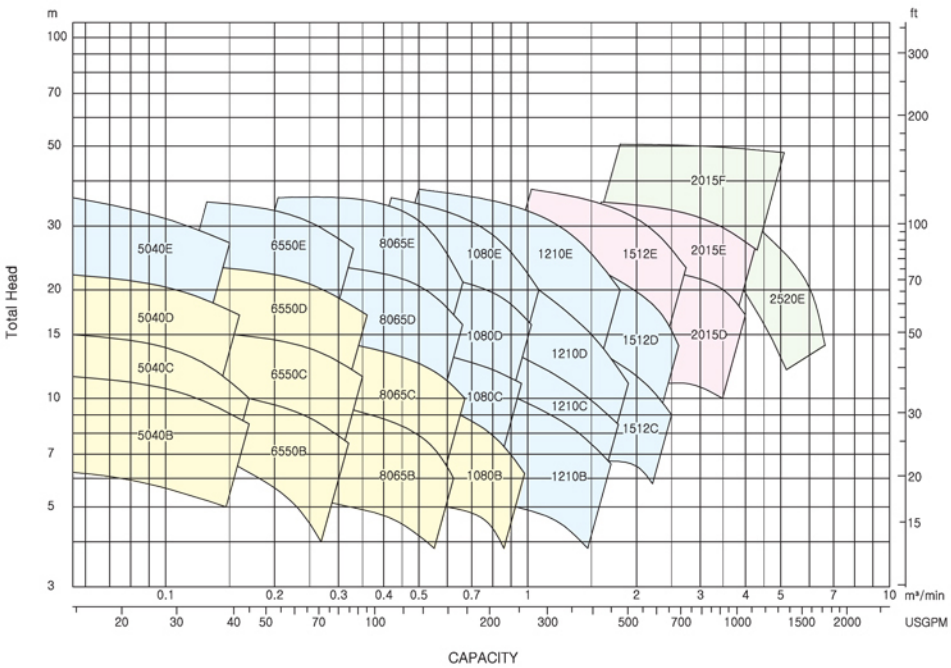
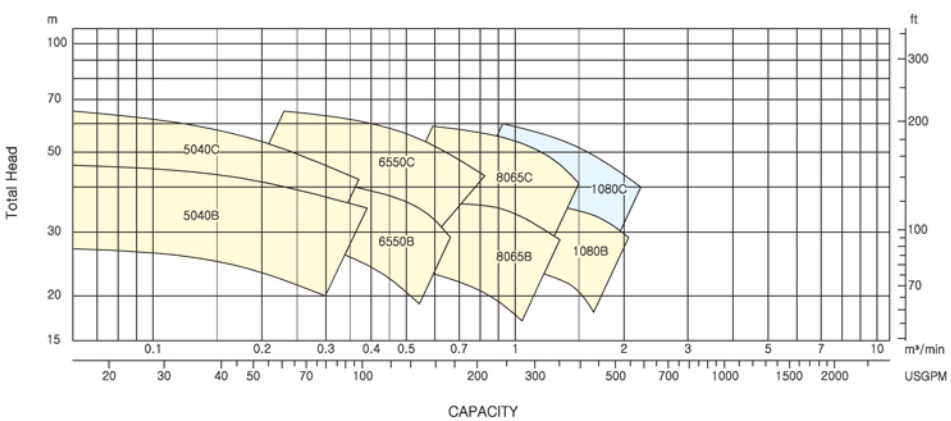
[FIG. B]

Model (형식)	FIG	Motor [kW]	Pump & Motor											Bed								Weight [kg]	
			A	B	C	D	E	F	H	K	L	R	T	Ba	Bd	Bh	Bb	Bc	Be	Bf	Bz	P·B	P·B·M
GPS-504OB	A	0.75	707	124	140	305	120	144	217	250	80	360	377	650	290	85	450	100	255	40	15	62	78
	A	1.5	760	148	169	313	145	166	217	250	80	360	377	700	350	85	450	125	315	40	15	68	94
	A	2.2	801	165	193	359	145	168	217	250	80	360	377	750	290	85	500	125	255	40	15	65	100
GPS-504DC	A	1.5	780	148	169	341	167.5	166	245	290	100	360	425	700	350	85	450	125	315	40	15	75	101
	A	2.2	821	165	193	387	162.5	168	245	290	100	360	425	750	350	85	500	125	315	40	15	78	113
	A	3.7	832	169	200	407	162.5	187	245	290	100	360	425	750	350	85	500	125	315	40	15	78	121
GPS-504OD	A	2.2	821	165	193	407	152.5	168	265	350	100	360	490	750	350	85	500	125	315	40	15	87	122
	A	3.7	832	169	200	427	152.5	187	265	350	100	360	490	750	350	85	500	125	315	40	15	87	130
	A	5.5	907	205	239	444	177.5	213	265	350	100	360	490	850	350	85	550	150	315	40	15	93	159
GPS-504OE	A	3.7	967	169	200	472	202.5	187	310	415	125	470	560	850	410	85	550	150	375	40	15	128	171
	A	5.5	1042	205	239	489	227.5	213	310	415	125	470	560	950	410	85	600	175	375	40	15	134	200
	A	7.5	1082	226	258	489	227.5	213	310	415	125	470	560	950	410	85	600	175	375	40	15	134	214
	A	11	1193	272	323	542	277.5	265	335	415	125	470	585	1050	440	110	600	225	395	50	19	144	261
GPS-655OB	A	1.5	780	148	169	341	165	166	245	255	100	360	425	700	350	85	450	125	315	40	15	71	97
	A	2.2	821	165	193	387	160	168	245	255	100	360	425	750	350	85	500	125	315	40	15	74	109
	A	3.7	832	169	200	407	160	187	245	255	100	360	425	750	350	85	500	125	315	40	15	74	117
GPS-655OC	A	2.2	821	165	193	387	160	168	245	305	100	360	445	750	350	85	500	125	315	40	15	79	114
	A	3.7	832	169	200	407	160	187	245	305	100	360	445	750	350	85	500	125	315	40	15	79	122
	A	5.5	907	205	239	424	175	213	245	305	100	360	445	800	350	85	500	150	315	40	15	82	148
GPS-655OD	A	3.7	832	169	200	427	152.5	187	265	350	100	360	490	750	350	85	500	125	315	40	15	91	134
	A	5.5	907	205	239	444	177.5	213	265	350	100	360	490	850	350	85	550	150	315	40	15	97	163
	A	7.5	947	226	258	444	177.5	213	265	350	100	360	490	850	350	85	550	150	315	40	15	97	177
GPS-655OE	A	3.7	967	169	200	472	202.5	187	310	415	125	470	590	850	410	85	550	150	375	40	15	133	176
	A	5.5	1042	205	239	489	227.5	213	310	415	125	470	590	950	410	85	600	175	375	40	15	136	202
	A	7.5	1082	226	258	489	227.5	213	310	415	125	470	590	950	410	85	600	175	375	40	15	136	216
	B	11	1193	272	323	562	202.5	265	335	415	125	470	615	1100	440	110	400	150	395	50	19	146	263
	B	15	1237	294	345	562	202.5	265	335	415	125	470	615	1100	440	110	400	150	395	50	19	148	287
GPS-8065B	A	2.2	821	165	193	387	147.5	168	245	275	100	360	445	750	350	85	500	125	315	40	15	80	115
	A	3.7	832	169	200	407	147.5	187	245	275	100	360	445	750	350	85	500	125	315	40	15	80	123
	A	5.5	907	205	239	424	177.5	213	245	275	100	360	445	800	350	85	500	150	315	40	15	83	149
GPS-8065C	A	3.7	832	169	200	427	152.5	187	265	345	100	360	490	750	350	85	500	125	315	40	15	85	128
	A	5.5	907	205	239	444	177.5	213	265	345	100	360	490	850	350	85	550	150	315	40	15	91	157
	A	7.5	947	226	258	444	177.5	213	265	345	100	360	490	850	350	85	550	150	315	40	15	91	171

* Note : All dimensions (millimeters) / Contact us for specific dimensions.
* P · B : Weight excluding Motor (모터제외중량) / P · B · M : Weight including Motor (모터포함중량)

Selection Chart / 선정도

50Hz, 4P (1500 RPM)



50Hz, 2P (3000 RPM)