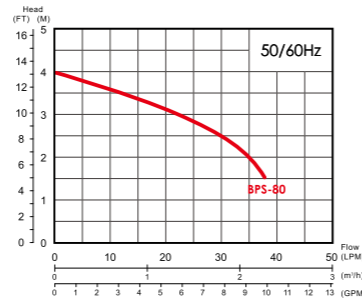




BPS-80

Suction water level down to 3 mm



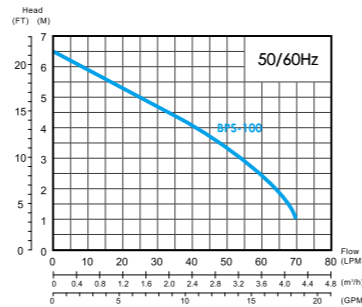
Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	2M	2.5M	3M	3.5M			
BPS-80	1/10	80	20	3/4"	3	40	38	35	30	22	12	4	136 x 136 x 232	2.3
BPS-80A	1/10	80	20	3/4"	3	40	38	35	30	22	12	4	136 x 136 x 232	2.8

Remarks: Model with "A" is equipped with float switch.



BPS-100

Suction water level down to 3mm

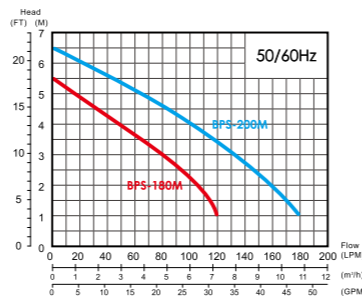


Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4M	5M	6M			
BPS-100	1/6	100	25	1"	3	70	68	54	41	25	8	6.5	155 x 140 x 240	3.1
BPS-100A	1/6	100	25	1"	3	70	68	54	41	25	8	6.5	155 x 140 x 240	3.3
BPS-100V	1/6	100	25	1"	3	70	68	54	41	25	8	6.5	155 x 140 x 240	3.3

Remarks: Model with "A" is equipped with float switch.
Remarks: Model with "V" is equipped with vertical switch.



BPS-180M BPS-200M



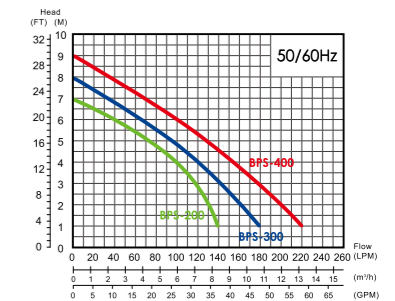
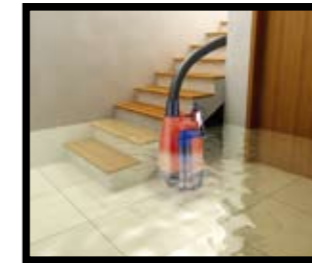
Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	2M	3M	4M	5M			
BPS-180M	1/6	120	32	1-1/4"	5	120	115	105	80	48	15	5.5	189 x 148 x 227	3
BPS-200M	1/4	180	32	1-1/4"	5	180	170	160	130	100	65	6.5	189 x 148 x 257	3.6

Remarks: Model with "A" is equipped with float switch.
Remarks: Model with "V" is equipped with vertical switch.



BPS-200/300/400

Multi-function Longevity Portability Pumps

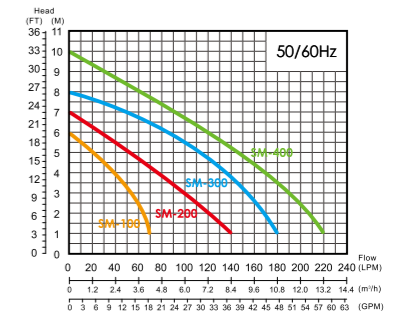


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	2M	4M	6M	8M			
BPS-200	1/4	200	32	1-1/4"	5	140	135	130	100	40	-	7	155 x 140 x 255	4.2
BPS-300	1/3	300	40	1-1/2"	5	180	170	160	120	65	-	8	196 x 160 x 370	6.6
BPS-400	1/2	400	50	2"	5	220	210	200	155	100	35	9	196 x 160 x 370	7.6

Remarks: Model with "A" is equipped with float switch.
Remarks: Model with "V" is equipped with vertical switch.

SM Series

Automatic ON/OFF control Without Float Switch



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
SM-100	1/6	120	25	1"	3	70	65	55	30	-	-	6	155 x 140 x 240	3.5
SM-200	1/4	200	32	1-1/4"	3	140	130	100	65	25	-	7	155 x 140 x 255	4.5
SM-300	1/3	300	40	1-1/2"	3	180	170	150	125	80	25	8	196 x 160 x 370	6.8
SM-400	1/2	400	50	2"	3	220	210	190	155	120	75	10	196 x 160 x 370	8.5

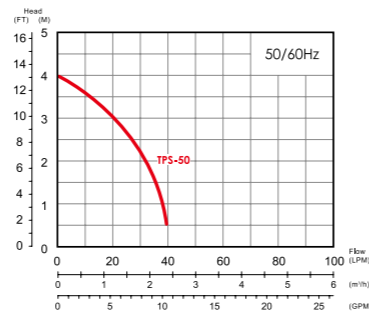
Remarks: Optional for lower strainer on SM100 & 200 .



24-hour operation

TPS-50

Excellent Compact Pumps



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1M	2M	3M	4M	5M			
TPS-50	1/10	80	20	3/4"	5	40	38	33	20	-	-	4	114 x 114 x 265	2.5

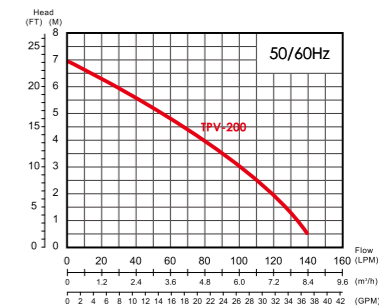
Remarks: Model with "A" is equipped with wide angle float switch.



24-hour operation

TPV-200

Dirty Water Usage
Solid Passage 19 mm



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1M	2M	3M	4M	5M			
TPV-200	1/4	200	32	1-1/4"	19	140	135	120	100	80	55	7	168 x 146 x 288	3.6

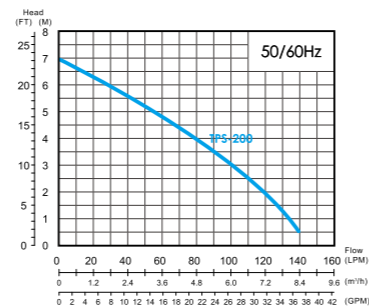
Remarks: Model with "A" is equipped with wide angle float switch.



24-hour operation

TPS-200

Excellent Compact Pumps



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1M	2M	3M	4M	5M			
TPS-200	1/4	200	32	1-1/4"	5	140	135	120	100	80	55	7	168 x 146 x 288	3.6

Remarks: Model with "A" is equipped with wide angle float switch.

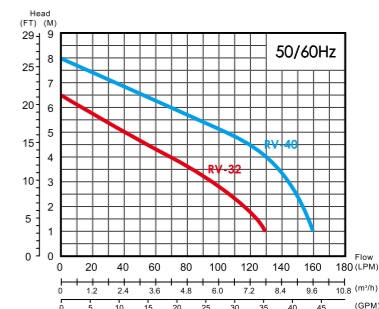


RV-32

RV-40

RV Series

Solid Passage up to 18mm

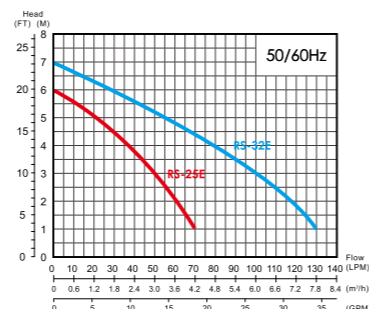


Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
RV-32	1/4	200	32	1-1/4"	18	130	125	95	55	10	-	6.5	154 x 143 x 345	3.9
RV-40	1/3	250	32	1-1/4"	18	160	155	145	120	70	15	8	154 x 143 x 345	5.9



RS-E Series

Automatic ON/OFF Without
Float Switch!

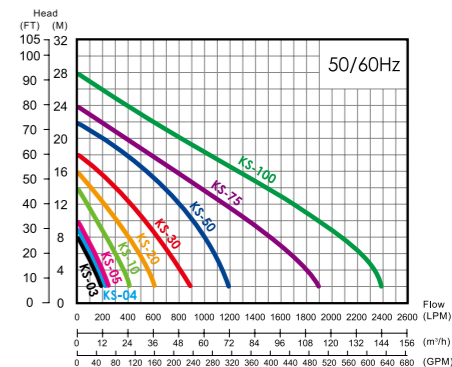


Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
RS-25E	1/6	100	25	1"	3	70	65	50	30	-	-	6	155 x 155 x 240	3.2
RS-32E	1/4	200	32	1-1/4"	3	130	125	100	65	30	-	7	155 x 155 x 240	4.2

Remarks: Optional for lower strainer.



KS Series



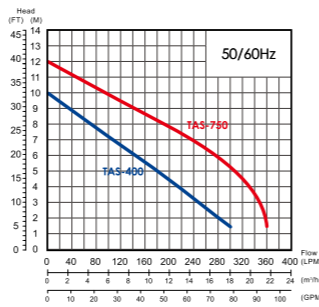
Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	inch			3M	6M	9M	12M	15M			
KS-03	1/3	250	40	1-1/2"	5	200	185	90	-	-	-	8	188 x 141 x 305	9
KS-04	1/2	400	50	2"	5	240	205	110	-	-	-	9	208 x 140 x 359	11
KS-05	1/2	400	50	2"	5	260	230	140	35	-	-	10	230 x 156 x 375	14
KS-10	1	750	50	2"	6	420	400	300	190	70	-	14	290 x 180 x 425	21
KS-20	2	1500	80	3"	9	620	590	490	360	200	40	16	278 x 182 x 475	31
KS-30	3	2.2	80	3"	11	900	800	530	250	-	-	18	390 x 250 x 450	42
KS-50	5	3.7	100	4"	11	1200	1130	920	630	220	-	22	450 x 240 x 530	48
KS-75	7.5	5.5	100	4"	11	1900	1750	1350	880	380	-	24	550 x 310 x 590	60
KS-100	10	7.5	150	6"	11	2400	2300	1350	1400	820	280	28	550 x 310 x 610	70

Remarks: Model with "A" is equipped with float switch.



TAS

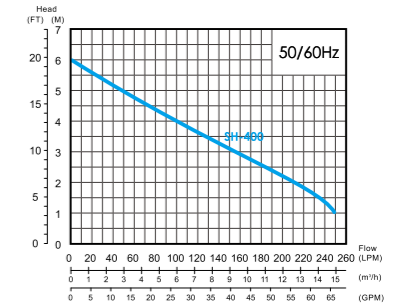
Non-clogging vortex impeller
Multi function sewage pump
Drain water to the lowest level



Model	Output		Outlet		Pass solid Solid(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	inch			3M	4.5M	6M	7.5M	9M			
TAS-250	1/3	250	40	1.5"	14	250	215	160	105	45	-	9	225 x 145 x 282	6
TAS-400	1/2	400	50	2"	14	300	250	200	145	90	35	10	250 x 165 x 300	8.5
TAS-750	1	750	50	2"	14	360	350	320	275	215	145	12	250 x 165 x 300	9.5



SH-400

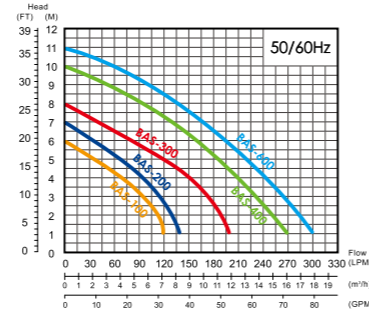


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension LxWxH(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	2M	3M	4M	5M			
SH-400	1/2	400	40	1-1/2"	20	250	235	210	155	100	50	6	218 x 150 x 363	3.6



BAS Series

Non-clog Vortex Impeller
Solids passage 5~15mm

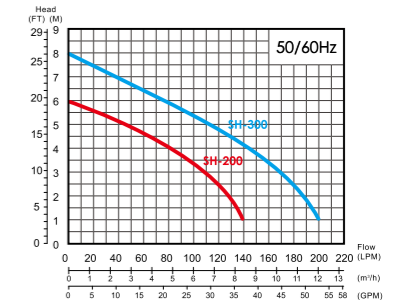


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head				Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	inch			2M	4M	6M	10M			
BAS-100	1/6	100	25	1"	7	120	115	70	-	-	6	190 x 130 x 280	5
BAS-200	1/5	200	32	1-1/4"	7	140	130	95	35	-	7	190 x 130 x 280	6
BAS-300	1/3	300	40	1-1/2"	9	200	190	150	80	-	8	200 x 135 x 285	8
BAS-400	1/2	400	50	2"	12	270	250	210	160	95	10	236 x 145 x 352	10
BAS-600	3/4	600	50	2"	15	300	280	240	195	135	60	276 x 165 x 425	12

Remarks: Model No. ends with "A" is equipped with float switch.



SH-200/300



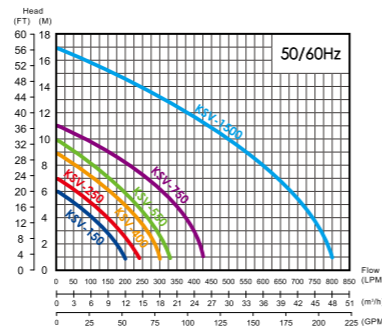
Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension LxWxH(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
SH-200	1/4	200	32	1-1/4"	5	140	135	110	65	-	-	6	196 x 196 x 260	5
SH-300	1/3	250	40	1-1/2"	5	200	195	170	130	75	20	8	196 x 196 x 280	5.5

Remarks: Model with "A" is equipped with float switch.



KSV Series

Non-clog Vortex Impeller
Solids passage 5~20mm

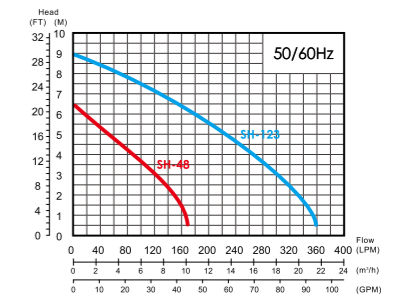


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	inch			1.5M	3M	4.5M	6M	7.5M			
KSV-150	1/5	150	40	1-1/2"	5	200	190	150	85	-	-	6	190 x 140 x 360	6
KSV-250	1/3	250	40	1-1/2"	5	240	230	185	130	60	-	7	190 x 140 x 360	8
KSV-400	1/2	400	50	2"	10	300	295	270	220	155	70	9	215 x 155 x 370	12
KSV-550	3/4	550	50	2"	15	330	320	290	250	190	120	10	260 x 160 x 430	13
KSV-750	1	750	80	3"	15	430	420	395	315	150	-	11	260 x 160 x 430	15
KSV-1500	2	1500	80	3"	20	800	795	770	680	550	380	17	270 x 350 x 610	32

Remarks: Model with "A" is equipped with float switch.
Remarks: Model with "V" is equipped with vertical switch.



SH-48/123



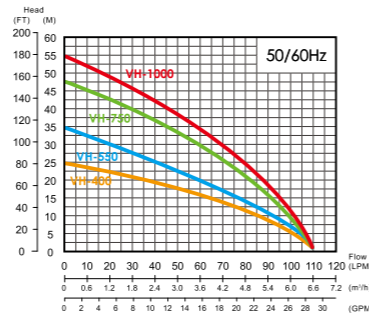
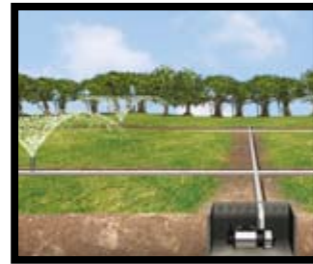
Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension LxWxH(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
SH-48	1/3	250	32/40	1-1/4"/1-1/2"	7	170	160	120	70	15	-	6.5	222 x 200 x 135	7.2
SH-123	1/2	400	50	2"	10	360	345	300	240	180	100	9	264 x 246 x 165	12.6

Remarks: Model No. ends with "A" is equipped with float switch.



VH Series

Submersible Pumps for Fountain and High Building Water Supply

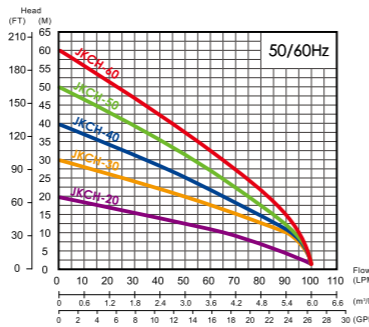


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			5M	10M	20M	30M	40M			
VH-400	1/2	400	32	1-1/4"	1.2	110	102	85	38	-	-	25	350 X 131 X 183	13
VH-550	3/4	550	32	1-1/4"	1.2	110	105	90	60	22	-	35	400 X 131 X 183	14
VH-750	1	750	32	1-1/4"	1.2	110	107	100	82	60	30	48	425 X 131 X 183	15
VH-1000	1.2	1000	32	1-1/4"	1.2	110	107	102	88	70	45	55	450 X 131 X 183	16



JKCH Series

5" Multi-stage motor-cooling design.

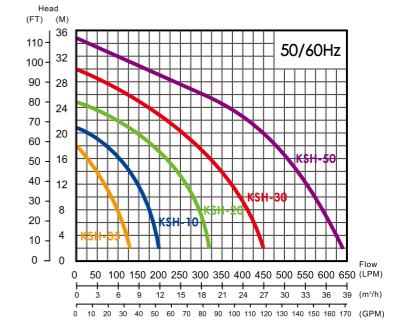


Model	Output		Stages	Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W		mm	Inch			5M	10M	20M	30M	40M			
JKCH-20	1/2	400	2	32	1-1/4"	1.2	100	87	65	-	-	20	125 x 125 x 430	11.8	
JKCH-30	3/4	600	3	32	1-1/4"	1.2	100	97	90	50	-	30	125 x 125 x 454	12.8	
JKCH-40	1.1	800	4	32	1-1/4"	1.2	100	97	92	65	35	40	125 x 125 x 478	13.8	
JKCH-50	1.5	1100	5	32	1-1/4"	1.2	100	98	93	75	53	50	125 x 125 x 530	14.8	
JKCH-60	1.8	1350	6	32	1-1/4"	1.2	100	98	95	83	65	60	125 x 125 x 554	15.8	

Remarks: Model No. ends with "A" is equipped with float switch.



KSH Series

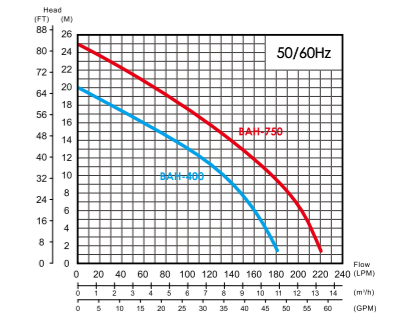


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch			3M	6M	9M	12M	15M			
KSH-05	1/2	0.4	40	1-1/2"	2	130	120	85	35	-	-	18	290 x 168 x 422	16
KSH-10	1	0.75	40	1-1/2"	2.5	200	190	165	120	30	-	21	283 x 227 x 465	29
KSH-20	2	1.5	50	2"	5	320	310	280	230	145	-	25	283 x 227 x 484	32
KSH-30	3	2.2	50	2"	6.5	450	440	400	335	255	145	30	395 x 250 x 510	42
KSH-50	5	3.7	80	3"	7	640	620	575	520	450	340	35	455 x 290 x 585	50



BAH Series

High head and Non-clogging Pass Solid 8mm 2 Stages

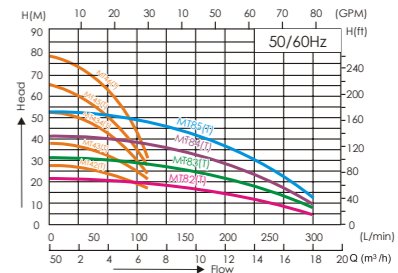


Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	inch		3M	6M	9M	12M	15M			
BAH-400	1/2	400	32	1-1/4"	180	175	160	140	115	75	20	227 x 160 x 370	13
BAH-750	1	750	40	1-1/2"	220	215	200	185	160	130	25	227 x 160 x 390	15



MT Series

Sprinkler Water Supply



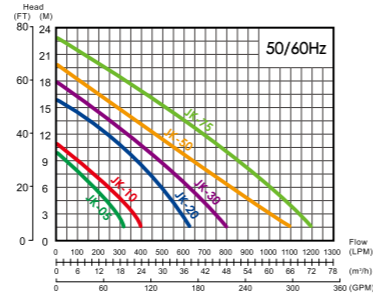
Model	Output		Outlet		Rated		Maximum		Dimension		Weight Kg
	HP	W	mm	inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)	L x W x H (mm)		
MT-43(K)(T)	1	750	25*25	1" * 1"	30	65	39	110	384 x 170 x 210	10	
MT-44(K)(T)	1 1/3	1000	25*25	1" * 1"	40	65	53	110	408 x 170 x 210	10	
MT-45(K)(T)	2	1500	25*25	1" * 1"	50	65	66	110	470 x 170 x 210	10	
MT-46(K)(T)	2	1500	25*25	1" * 1"	60	65	79	110	495 x 170 x 210	11	
MT-82(K)(T)	1 1/2	1100	40*32	1-1/2" * 1-1/4"	18	133	21	300	435 x 152 x 225	20	
MT-83(K)(T)	1 1/2	1100	40*32	1-1/2" * 1-1/4"	28	133	32	300	474 x 152 x 225	21	
MT-84(K)(T)	2	1500	40*32	1-1/2" * 1-1/4"	37	133	42	300	513 x 152 x 225	22	
MT-85(K)(T)	3	2200	40*32	1-1/2" * 1-1/4"	46	133	53	300	552 x 152 x 225	24	

Remark: Model ends with "K" means with stainless steel impellers. "T" means three phase motor.



JK Series

Solids Passage 30~50 mm
Non-clogging vortex impeller design

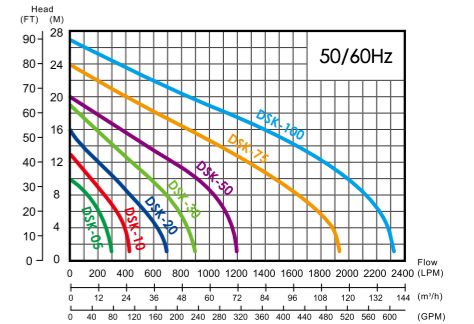


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch			3M	6M	9M	12M	15M			
JK-05	1/2	0.4	50	2"	30	320	290	180	50	-	-	10	223 x 132 x 395	14
JK-10	1	0.75	50	2"	30	410	370	250	100	-	-	11	223 x 132 x 425	21
JK-20	2	1.5	80	3"	35	630	590	490	380	240	55	16	390 x 210 x 530	32
							3M	5M	10M	15M	20M			
JK-30	3	2.2	80	3"	35	800	750	670	440	180	-	18	390 x 210 x 550	34
JK-50	5	3.7	100	4"	45	1100	1000	880	590	290	-	20	525 x 250 x 635	45
JK-75	7.5	5.5	100	4"	50	1200	1150	1050	800	520	190	23	525 x 250 x 675	54



DSK Series

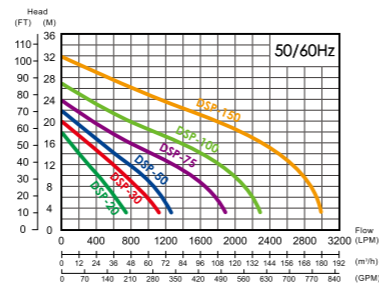
Sewage Cutter Pumps



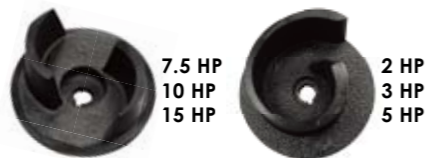
Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch		3M	6M	9M	12M	15M			
DSK-05	1/2	0.5	50	2"	300	280	200	70	-	-	10	245 x 188 x 420	18
DSK-10	1	0.75	50	2"	430	410	340	200	40	-	13	280 x 195 x 420	30
DSK-20	2	1.5	80	3"	700	670	520	350	200	40	16	280 x 195 x 425	35
DSK-30	3	2.2	80	3"	900	860	780	630	450	250	19	410 x 240 x 520	46
DSK-50	5	3.7	100	4"	1200	1180	1120	980	720	450	20	480 x 250 x 550	62
						5M	10M	15M	20M	25M			
DSK-75	7.5	5.5	100	4"	1900	1850	1480	950	400	-	24	485 x 300 x 735	104
DSK-100	10	7.5	150	6"	2300	2260	2000	1500	850	220	27	485 x 300 x 840	114

DSP Series

Submersible Sewage Pump
Heavy Duty Industrial application
Solid pass 40~65mm
Optional for cutter impeller



Optional Cutter Impeller for Cutter Pump Application.



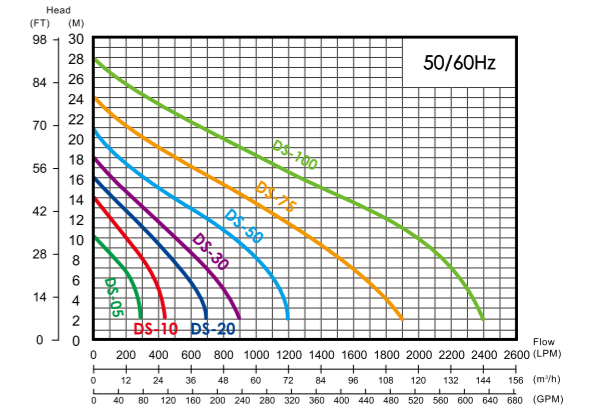
Slide rail kits are available for easy removal and installation.

Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	KW	mm	inch			3M	6M	9M	12M	15M			
DSP-20	2	1.5	80	3"	40	800	750	620	480	310	150	18	400 x 240 x 545	37
DSP-30	3	2.2	80/100	3" / 4"	40	1200	1130	990	800	590	380	20	425 x 220 x 615	47
DSP-50	5	3.7	80/100	3" / 4"	45	1300	1270	1170	1000	790	530	22	425 x 220 x 615	50
							5M	10M	15M	20M	25M			
DSP-75	7.5	5.5	100/150	4" / 6"	50	1900	1840	1500	900	360	-	24	485 x 300 x 735	104
DSP-100	10	7.5	100/150	4" / 6"	65	2300	2260	2000	1500	800	200	27	485 x 300 x 840	114
DSP-150	15	11	100/150	4" / 6"	65	3000	2960	2800	2400	1800	980	32	585 x 340 x 875	165

Remarks: Add "K" for cutter impeller , ex: DSPK-20



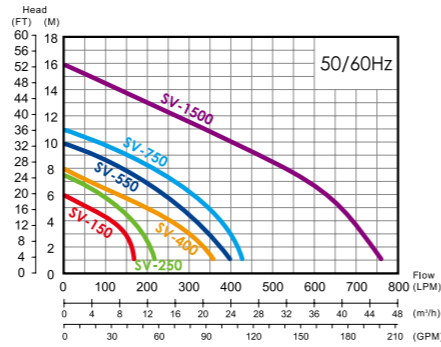
DS Series



Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch			3M	6M	9M	12M	15M			
DS-05	1/2	0.4	50	2"	20	300	290	220	60	-	-	10	245 x 188 x 420	18
DS-10	1	0.75	50	2"	15	450	435	370	240	95	-	14	280 x 195 x 420	28
DS-20	2	1.5	80	3"	15	700	680	570	410	240	50	16	285 x 223 x 550	32
DS-30	3	2.2	80	3"	15	900	860	730	550	360	170	18	410 x 240 x 520	42
							5M	10M	15M	20M	25M			
DS-50	5	3.7	100	4"	15	1200	1150	880	420	30	-	21	480 x 250 x 550	57
DS-75	7.5	5.5	100	4"	20	1900	1750	1350	850	310	-	24	530 x 320 x 610	64
DS-100	10	7.5	100	4"	27	2400	2300	2000	1400	810	240	28	520 x 320 x 610	75

SV Series

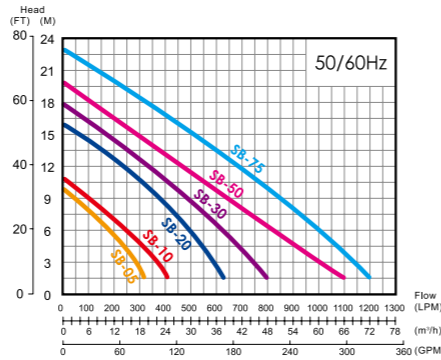
Solids Passage 20~40mm
Non-clogging vortex impeller design



Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
SV-150	1/5	150	40	1-1/2"	27	170	168	150	90	-	-	6	415 x 155 x 210	27
SV-250	1/3	250	40	1-1/2"	27	220	215	190	150	90	-	7.5	415 x 155 x 210	27
SV-400	1/2	400	50	2"	35	360	350	300	230	130	30	8	435 x 155 x 240	35
							1.5M	3M	6M	9M	12M			
SV-550	3/4	550	80	3"	35	400	395	350	240	80	-	10	435 x 155 x 260	35
SV-750	1	750	80	3"	37	430	420	395	315	150	-	11	435 x 155 x 260	37
SV-1500	2	1500	80	3"	40	760	750	715	630	470	275	16	610 x 270 x 350	40

SB Series

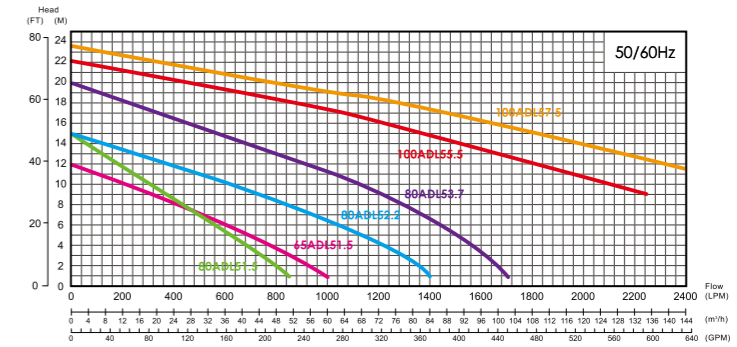
Stainless Steel Casting Pump
Solids Passage 30~50mm
Non-clogging vortex impeller design



Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch			3M	6M	9M	12M	15M			
SB-05	1/2	0.4	50	2"	30	320	290	180	50	-	-	10	223 x 132 x 395	14
SB-10	1	0.75	50	2"	30	410	370	250	100	-	-	11	223 x 132 x 425	21
SB-20	2	1.5	80	3"	35	630	590	490	380	240	55	16	390 x 210 x 530	32
							3M	5M	10M	15M	20M			
SB-30	3	2.2	80	3"	35	800	750	670	440	180	-	18	390 x 210 x 550	34
SB-50	5	3.7	100	4"	45	1100	1000	880	590	290	-	20	525 x 250 x 635	45
SB-75	7.5	5.5	100	4"	50	1200	1150	1050	800	520	190	23	525 x 250 x 675	54

ADL Series

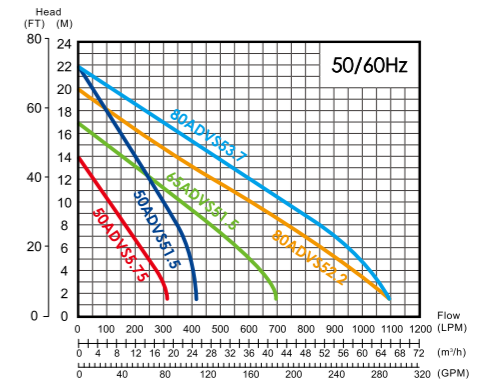
High Volume and Non-Clogging
4 poles Motor



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow (l/m)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	KW	mm	Inch			3M	6M	9M	12M	15M			
65ADL51.5	2	1.5	65	2.5"	40	850	750	570	370	180	-	15	497 x 491 x 576	51
80ADL51.5	2	1.5	80	3"	50	1000	850	620	300	-	-	12	524 x 292 x 597	54
80ADL52.2	3	2.2	80	3"	50	1400	1300	1030	720	370	-	15	373 x 310 x 658	66
80ADL53.7	5	3.7	80	3"	48	1700	1620	1450	1210	920	570	18	400 x 330 x 688	74
100ADL55.5	7.5	5.5	100	4"	75	2250	2200	2070	1850	1420	960	19	653 x 381 x 824	121
100ADL57.5	10	7.5	100	4"	75	2300	2300	2280	2250	2050	1500	21	653 x 381 x 824	125

ADVS Series

High Volume and Non-Clogging 2 poles Motor



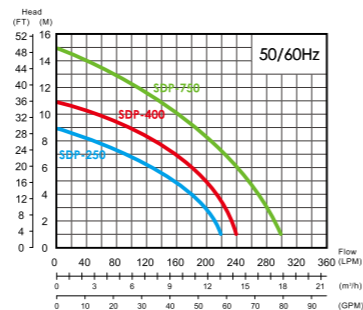
Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch			3M	6M	9M	12M	15M			
50ADVS5.75	1	0.75	50	2"	33	320	300	230	140	55	-	14	250 x 172 x 400	19
50ADVS11.5	2	1.5	50	2"	31	420	415	390	330	250	170	22	250 x 176 x 445	27
65ADVS15.5	2	1.5	65	2.5"	45	700	680	560	420	250	90	17	245 x 200 x 600	34
80ADVS22.2	3	2.2	80	3"	50	1100	1020	860	680	480	280	20	280 x 233 x 723	51
80ADVS33.7	5	3.7	80	3"	55	1100	1060	960	800	600	420	22	280 x 233 x 723	60



24-hour operation

SDP Series

Double Casing for Water
Cools Motor
For Pond & Fountain Use



Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	6M	9M	12M			
SDP-250	1/3	250	50	2"	7	220	215	197	130	-	-	9	181 x 181 x 340	12
SDP-400	1/2	400	50	2"	10	240	237	225	180	100	-	11	181 x 181 x 340	12
SDP-750	1	750	50	2"	10	300	295	280	240	185	110	15	181 x 181 x 343	15

Remarks: Model No. ends with "A" is equipped with float switch.



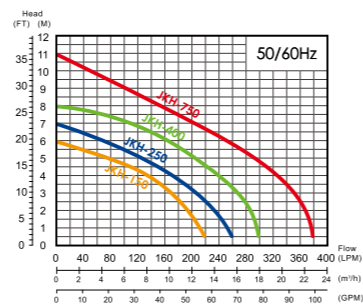
24-hour operation

JKH Series

24 hours Large Flow Gardening Pumps
Non-clogging Vortex type



Vertical and horizontal usage.

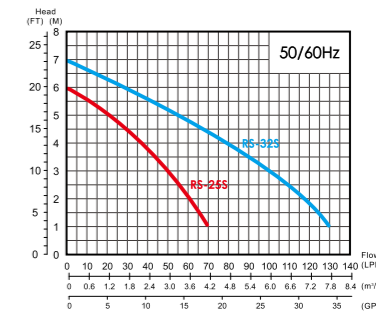


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
JKH-150	1/5	150	50	2"	10	220	205	170	110	-	-	6	305 x 152 x 175	5.5
JKH-250	1/3	250	50	2"	25	260	245	205	150	70	-	7	320 x 152 x 175	6.5
JKH-400	1/2	400	50	2"	30	300	295	270	225	165	80	8	330 x 162 x 180	8
JKH-750	1	750	50	2"	35	380	375	350	350	255	180	11	350 x 162 x 180	11



RS-S Series

For Sea Water Use



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L × W × H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
RS-25S	1/6	100	25	1"	3	70	65	50	30	-	-	6	155 x 155 x 240	3.2
RS-32S	1/4	200	32	1-1/4"	3	130	125	100	65	30	-	7	155 x 155 x 240	4.2

Remarks: Optional for lower strainer.

GR Series

Nozzles & Accessories



C10220		C10240	
Complete Kit for GR-2000 ~ 4000 (Seven nozzles in a blister pack)		Complete Kit for GR-900 only (Three nozzles: Water Ball, Double Daisy, Spike Jet)	
H81200 Water Ball	H81280 Spike Jet	H81240 Tulip	H81400 Telescopically Adjustable Extension Tube
H81220 Double Daisy	G13440 Diverter Flow Control Valve	H81260 9 Hole Jet	

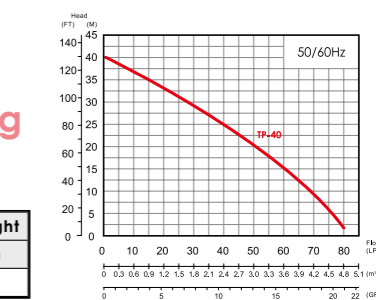
Model	Max. Flow	Max. Head	Power Watt
	Liter/hr	Meters	
GR-900	900	0.5	8
GR-2000	2000	2	32
GR-2500	2500	2.4	42
GR-3000	3000	3	74
GR-3500	3500	3.3	88
GR-4000	4000	4	100
GR-900F	900	0.5	8
GR-2000F	2000	2	32
GR-2500F	2500	2.4	42

Remark: Models ends with "F" is included with large filter.



TP-40

High Pressure & Self-Priming



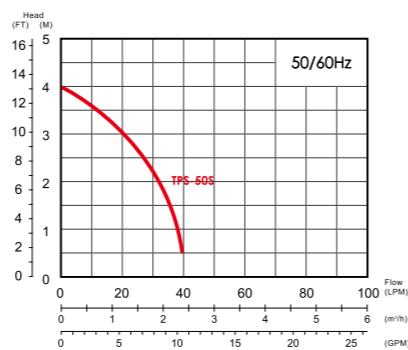
Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch		5M	10M	15M	20M	30M			
TP-40	1/2	400	25	1"	80	76	69	60	50	28	40	345 x 158 x 196	8



24-hour operation

TPS-50S

Excellent Compact Pumps
Sea Water Applicable



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1M	2M	3M	4M	5M			
TPS-50S	1/10	80	20	3/4"	5	40	38	33	20	-	-	4	114 x 114 x 265	2.5

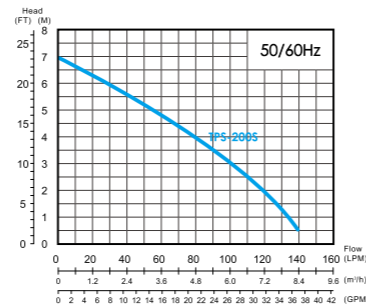
Remarks: Model with "A" is equipped with wide angle float switch.



24-hour operation

TPS-200S

Excellent Compact Pumps
Sea Water Applicable



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1M	2M	3M	4M	5M			
TPS-200S	1/4	200	32	1-1/4"	5	140	135	120	100	80	55	7	168 x 146 x 288	3.6

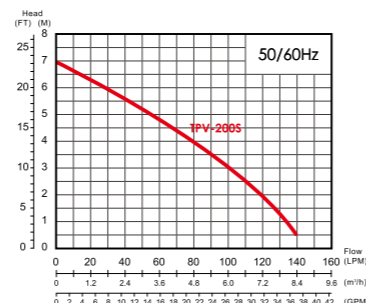
Remarks: Model with "A" is equipped with wide angle float switch.



24-hour operation

TPV-200S

Dirty Water Usage
Solid Passage 19 mm
Sea Water Applicable

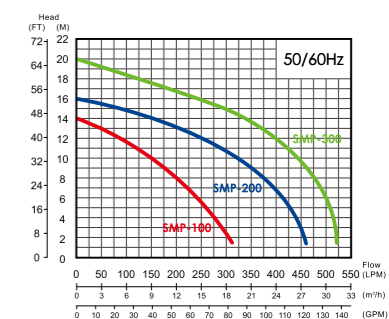


Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1M	2M	3M	4M	5M			
TPV-200S	1/4	200	32	1-1/4"	19	140	135	120	100	80	55	7	168 x 146 x 288	3.6

Remarks: Model with "A" is equipped with wide angle float switch.

SMP Series

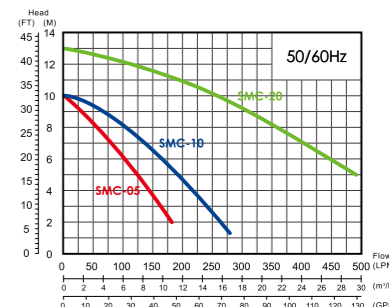
Swimming Pool & Water Recycling



Model	Power		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		3M	6M	9M	12M	15M			
SMP-10	1	750	40	1-1/2"	310	290	240	175	85	-	14	495 x 180 x 295	8.5
SMP-20	2	1500	50	2"	460	450	415	350	250	100	16	700 x 295 x 420	18.5
SMP-30	3	2100	50	2"	520	515	500	460	395	300	20	700 x 295 x 420	24.5

SMC Series

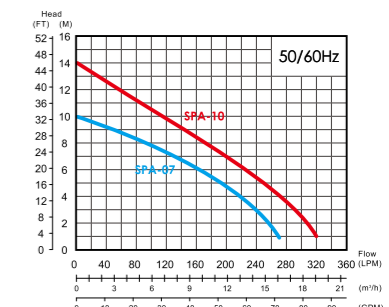
Anti-rusty. Circulating pool water



Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		4M	6M	8M	10M	12M			
SMC-05	1/2	400	25	1"	180	145	100	60	5	-	10	288 x 120 x 190	5.5
SMC-10	1	750	40	1-1/2"	320	195	160	110	10	-	10	276 x 153 x 183	6.5
SMC-20	2	1500	50	2"	535	-	450	350	250	160	13	380 x 202 x 226	12.5

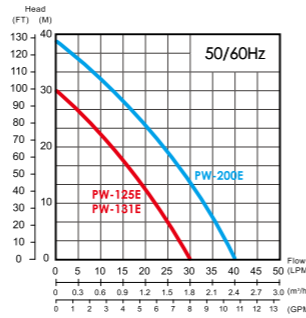
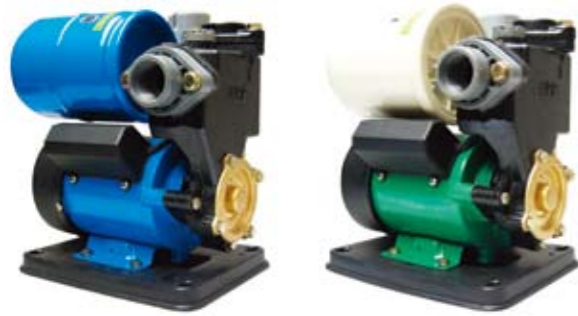
SPA Series

Water Recycling



Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		2M	4M	6M	8M	10M			
SPA-07	3/4	600	40	1-1/2"	270	260	220	165	95	-	10	354 x 182 x 216	9.5
SPA-10	1	750	40	1-1/2"	320	310	275	230	175	115	14	354 x 182 x 216	10.0

PW-125E(A) / PW-200E(A)

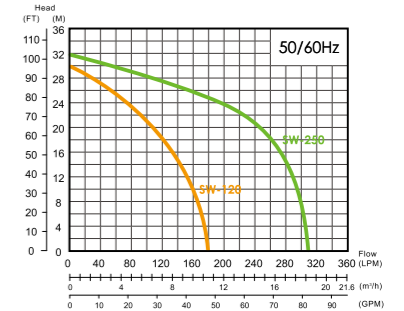


Model	Power		Outlet		Suction	Maximum		Dimension	Weight
	HP	W	mm	Inch	Head(M)	Head(M)	Flow(l/m)	L x W x H (mm)	Kg
PW-125E	1/6	125	25	1"	9	30	30	230 x 159 x 238	7.7
PW-125EA	1/6	125	25	1"	9	30	30	257 x 159 x 255	8.5
PW-131E	1/6	125	25	1"	9	30	30	240 x 159 x 238	7.2
PW-200E	1/4	200	25	1"	9	38	40	234 x 159 x 238	8.7
PW-200EA	1/4	200	25	1"	9	38	40	257 x 159 x 255	9.3

Remarks: Model with "E" equips without tank, and with "EA" equips with pressure tank system.

SW-120/250

RO Drinking Water Supply



Model	Output	Outlet		Pass solid	Max	LPM Flow @ Head					Max	Dimension	Weight	
	HP	W	mm	Inch	Dia(mm)	Flow(LPM)	5M	10M	15M	20M	25M	Head(M)	L x W x H (mm)	Kg
SW-120	1-1/4	900	25	1-1/4" x 1"	N/A	180	175	160	140	110	65	30	360 x 245 x 275	15.5
SW-250	2-1/2	1850	32	1-1/2" x 1-1/4"	N/A	310	305	295	280	245	180	32	366 x 213 x 253	20

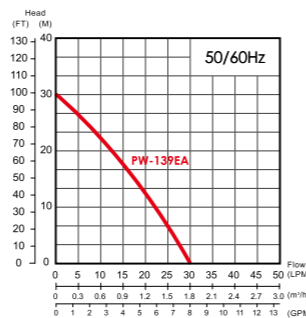
Remarks: Model No. ends with "S" is included with stainless steel strainer for hat water.

SW-120S/250S

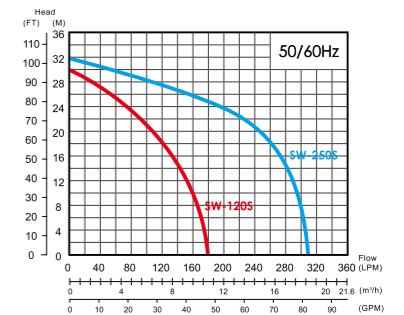
90°C Hot Water Usage



PW-139EA



Model	Power		Outlet		Suction	Maximum		Dimension	Weight
	HP	W	mm	Inch	Head(M)	Head(M)	Flow(l/m)	L x W x H (mm)	Kg
PW-139EA	1/5	140	25	1"	9	30	30	267 x 159 x 255	7.2



Model	Output	Outlet		Pass solid	Max	LPM Flow @ Head					Max	Dimension	Weight	
	HP	W	mm	Inch	Dia(mm)	Flow(LPM)	5M	10M	15M	20M	25M	Head(M)	L x W x H (mm)	Kg
SW-120S	1-1/4	900	25	1-1/4" x 1"	N/A	180	175	160	140	110	65	30	360 x 245 x 275	15.5
SW-250S	2-1/2	1850	32	1-1/2" x 1-1/4"	N/A	310	305	295	280	245	180	32	366 x 213 x 253	20

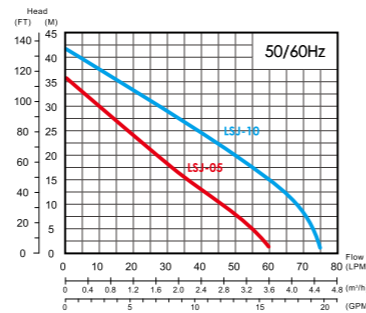
Remarks: Model No. ends with "S" is included with stainless steel strainer for hat water.



LSJ Series

AISI304 Impeller & Low Noise

Model	POWER (HP)	Connection	Suction (M)	Pressure	Max. Capacity (L/Min.)	Water Output (TAP)
LSJ-05-V18 LSJ-05-V24 vertical tank	0.5	1" x 1"	9	2.2-3.2 kg/cm ²	55	5-6
LSJ-10-V18 LSJ-10-V24 vertical tank	1	1" x 1"		2.4-3.6 kg/cm ²	75	6-8
LSJ-05-H24 horizontal tank	0.5	1" x 1"		2.2-3.2 kg/cm ²	55	5-7
LSJ-10-H60 horizontal tank	1	1" x 1"		2.4-3.6 kg/cm ²	75	7-9
LSJ-10-V100 vertical tank	1	1" x 1"		2.4-3 kg/cm ²	75	7-9
LSJ-10-V200 vertical tank	1	1" x 1"		2.4-3 kg/cm ²	75	7-9



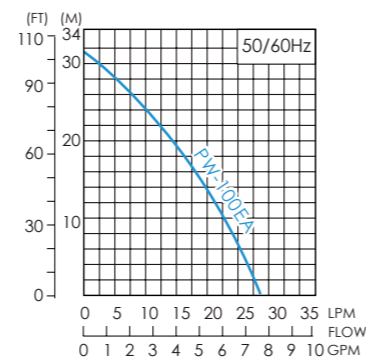
Remarks : LSJ-V or LSJ-H that connect by water Tank are automatic booster sets. Which can be applied on the site of castle, guest house, resort, hotel, apartment, factory.....

Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		5M	10M	15M	20M	30M			
LSJ-05	1/2	400	25	1"	60	55	46	36	27	10	36	345 x 158 x 196	8.0
LSJ-05E	1/2	400	25	1"	60	55	46	36	27	10	36	345 x 158 x 196	9.1
LSJ-10	1	750	25	1"	75	73	68	60	50	28	42	380 x 158 x 196	9.0
LSJ-10E	1	750	25	1"	75	73	68	60	50	28	42	380 x 158 x 196	10.1

Remarks: Model with "E" is equipped with EC switch for constant pressure.



PW-100E(A)



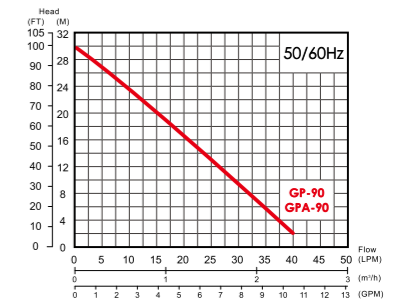
Model	Power		Outlet		Suction Head(M)	Maximum		Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		Head(M)	Flow(l/m)		
PW-100EA	1/6	100	20	3/4"	9	28	28	205 x 170 x 215	8.8

Remarks: Model with "E" equips without tank, and with "EA" equips with pressure tank system.



GPA-90

AISI304 Hydraulic Parts & 2 liter RO pressure tank

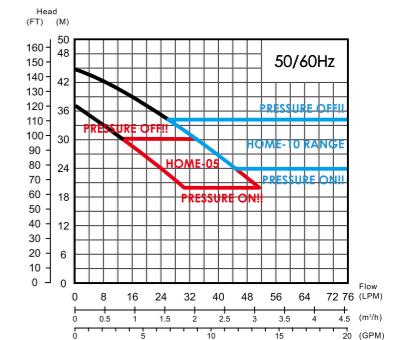


Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		5M	10M	15M	20M	25M			
GP-90	1/4	200	25	1"	40	36	29	22	15	8	30	252 x 170 x 168	6.5
GPA-90	1/4	200	25	1"	40	36	29	22	15	8	30	260 x 212 x 333	8

Remarks: The base is optional for GP-90. GP-90 & GPA-90 is cast iron impeller. GP-90S & GPA-90S is stainless steel impeller.

Home Series

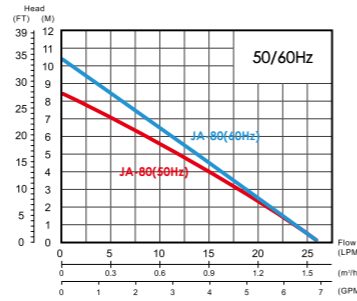
Low Consumption Households Water Supply & RO Water tank



Model	Connection	Power (HP)	Voltage (Volt)	Suction (M)	Pressure on/off (kg/cm ²)	Max. Capacity (L/Min.)	Water Output (Tap)	Bathroom (Room)	No. of Story (story)	Diaphragm Tank	
										Liter	psi
HOME-05	1" x 1"	0.5	220V	9	2.0/3.0	55	5-6.	2-5	4	18	28
HOME-10	1" x 1"	1	220V	9	2.4/3.4	75	6-8.	6-12	5	18	33



JA-80 JA-80S



Model	Output		Outlet		Rated		Maximum		Dimension		Weight Kg
	HP	W	mm	Inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)	L x W x H (mm)		
JA-80(50Hz)	1/10	80	20	3/4"	4	15	8.5	26	224 x 155 x 214	3.5	
JA-80(60Hz)	1/10	80	20	3/4"	6	12	10	26	224 x 155 x 214	3.5	

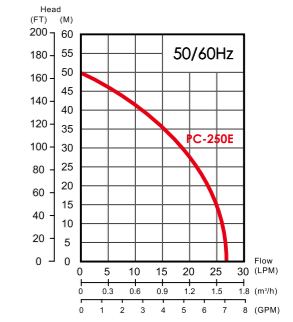
JA-80S : Alternative in stainless steel pump housing.



PC-250E

Flow	---	26	21	17.5	16	7	6.5	3	0
S.. Head	0	6	10	14	17	22	26	31	35

"S."mean Suction Headin Meter.

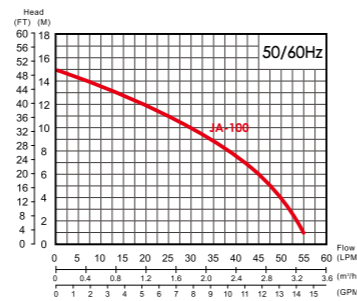


Model	Power		Outlet		Suction	Maximum		Dimension		Weight Kg
	HP	W	mm	Inch	Head(M)	Head(M)	Flow(l/m)	L x W x H (mm)		
PC-250E	1/3	250	25	1"	35	50	27	280 x 210 x 228	19	

Remarks: Model with "A" equips with pressure tank.



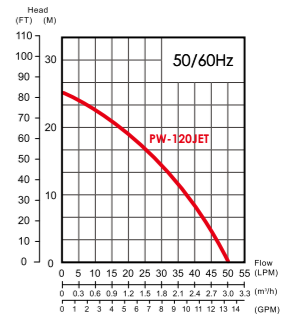
JA-100 Booster Pumps



Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	6M	9M	12M			
JA-100(50Hz)	1/4	200	25	1"	N/A	55	54	52	45	34	20	15	255 x 188 x 175	3.1
JA-100(60Hz)	1/4	200	25	1"	N/A	55	54	52	45	34	20	15	255 x 188 x 175	3.1



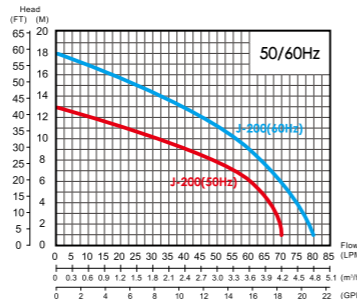
PW-120JET



Model	Power		Outlet		Maximum		Dimension		Weight Kg
	HP	W	mm	Inch	Head(M)	Flow(l/m)	L x W x H (mm)		
PW-120JET	1/6	120	25	1"	25	50	420 x 180 x 189	11.2	



J-200 Booster Pumps

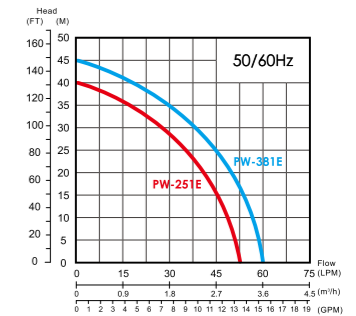


Model	Output		Outlet		Pass Solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	6M	9M	12M			
J-200(50Hz)	1/4	200	25	1"	N/A	70	69	68	60	40	10	13	255 x 188 x 175	7.1
J-200(60Hz)	1/4	200	25	1"	N/A	80	79	77	70	60	45	18	255 x 188 x 175	7.1

JA-200 : J-200with EFS flow switch included.



PW-251E(A) / PW-381E(A)



Model	Power		Outlet		Maximum		Dimension		Weight Kg
	HP	W	mm	Inch	Head(M)	Flow(l/m)	L x W x H (mm)		
PW-251E(A)	3/4	550	25	1"	40	50	453 x 180 x 207	14.3	
PW-381E(A)	1	750	25	1"	45	60	453 x 180 x 207	14.7	

Remarks: Model with "E" equips without tank, and with "EA" equips with pressure tank system.



HP/ST 4"

Plastic Impeller & Diffuser

- Special designed to tackle sand problems in well.
- Floating impeller with GE noryl material, urethane bearing and polycarbonate diffuser seated on stainless steel stage cup.
- Highly strength spline shaft to drive the upper impellers.
- Cold forged coupling is much tougher than sintered steel.
- The discharge and connected frame are made of investment stainless steel casting.

Model	HP/ST-05	HP/ST-10	HP/ST-13	HP/ST-18	HP/ST-25	HP/ST-40	HP/ST-60	HP/ST-80
Rated flow (Usgpm)	5	10	13	18	25	40	60	80
Discharge Thread	PT 1-1/4"			PT 1-1/2"		PT 2"		
Shaft Style	Spline Shaft							
Discharge & Bracket Material	AISI 304 investment casting							



SP 4"

Stainless Steel Borehole Pumps

- Whole Stainless Steel construction, Non-polluting corrosion resistant.
- Discharge designed with 3 size to fit volute, with check valve inside, and safety hook prevent the rope from abating.
- Spline shaft designed made the pump's impellers driven more stable extend the pump's operation life.
- Attached the Stainless Steel cable guard in order to connect the below motor's power input, easy for installation.
- Multi-stage submersible pump with centrifugal radial impellers. Particularly suited for dewatering, irrigation, water boosting.

Model	SP-5,10,18	SP-25	SP-40&SP-75
Discharge	1-1/4"	1-1/2"	2"
Pump Shaft	AISI304	AISI304	AISI431
Pump Bearing	Powder	Metallurgy	
Rated Capacity	5~18 GPM	25 GPM	40~75 GPM



SP 6"

Stainless Steel Borehole Pumps

- Whole Stainless Steel construction, Non-polluting corrosion resistant.
- Discharge designed with 3 size to fit volute, with check valve inside, and safety hook prevent the rope from abating.
- Hex bar shaft designed made the pump's impellers driven stable extend the pump's operation life.
- Multi-stage submersible pump with centrifugal radial impellers. Particularly suited for dewatering, irrigation, water boosting.

SP- 50Hz TYPE	SP1703~SP1724	SP3002~SP3018	SP4602~SP4620	SP6002~SP6017
SP- 60Hz TYPE	SP1702~SP1726	SP3002~SP3018	SP4602~SP4613	SP6002~SP6010
Discharge	2-1/2"	3"	4"	4"
Horse Power	3HP~30HP	3HP~35HP	5.5HP~40HP	5.5HP~40HP
Rated Pressure	24M~330M	15M~221M	15M~177M	13M~128M
Rated Capacity	74gpm (17m ³ /hr)	132gpm (30m ³ /hr)	202gpm (46m ³ /hr)	264gpm (60m ³ /hr)



BS/BC Series



BS Series - 6" (50Hz)

Type	Stage	Max. Q (m ³ / h)	Max. H (M)	HP
BS 6	6 ~ 35	23	75 ~ 425	5 ~ 25
BS 8	2 ~ 30	27	25 ~ 390	2 ~ 25
BS 12	2 ~ 31	35	27 ~ 409	3 ~ 40
BS 15	2 ~ 31	40	27 ~ 454	3 ~ 50
BS 18	2 ~ 30	48	31 ~ 445	4 ~ 50

BS Series - 6" (60Hz)

BS 5	3 ~ 24	22	55 ~ 472	3 ~ 30
BS 6	4 ~ 27	30	75 ~ 528	5 ~ 40
BS 8	2 ~ 24	41	48 ~ 462	3 ~ 40
BS 12	2 ~ 25	50	42 ~ 499	5 ~ 60
BS 15	1 ~ 21	57	21 ~ 464	3 ~ 60
BS 18	1 ~ 21	64	22 ~ 474	3 ~ 60

BC Series - 8" (50Hz)

BS 8	3 ~ 23	40	54 ~ 400	5 ~ 40
BS 12	2 ~ 23	57	41 ~ 460	5 ~ 50
BS 15	2 ~ 18	64	41 ~ 380	5 ~ 50
BS 18	2 ~ 16	79	42 ~ 354	7.5 ~ 50
BS 20	1 ~ 18	84	21 ~ 408	5 ~ 60

BC Series - 8" (60Hz)

BS 8	3 ~ 19	45	80 ~ 468	7.5 ~ 50
BS 12	2 ~ 13	68	62 ~ 363	7.5 ~ 50
BS 15	2 ~ 13	82	63 ~ 377	7.5 ~ 60
BS 18	2 ~ 13	91	67 ~ 410	10 ~ 75
BS 20	1 ~ 12	100	35 ~ 398	7.5 ~ 75

AS/AC/BD/AB Series



Type	Stage	Max. Q (m ³ / h)	Max. H (M)	HP
AS Series - 8" & 10" (50Hz)				
AS 21 ~ 212	1 ~ 12	110	25 ~ 283	10 ~ 75
AC Series - 10" (50Hz)				
AC 21 ~ 212	1 ~ 12	170	35 ~ 377	15 ~ 150
BD Series - 12" (50Hz)				
BD 821 ~ 810	1 ~ 10	150	41 ~ 365	10 ~ 140
AB Series - 14" (50Hz)				
AB 11 ~ 16	1 ~ 6	303	43 ~ 266	25 ~ 160

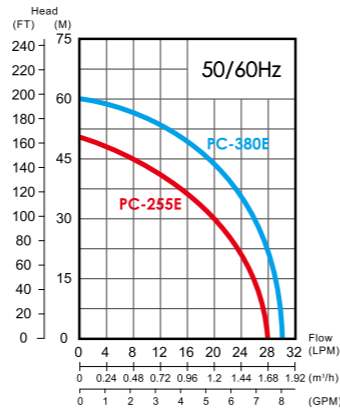
4"/6" Motors

Deep Well Motor

- Available both for 50Hz & 60Hz
- Capacity: from 0.5HP to 7.5HP for 4" motor.
- With automatic reset thermally overload protector for two wire system, and manual reset thermally overload protector for three wire system.
- Offer both water type's 4" Franklin motor and oil type, and oil type's stator wire could be re-winding.
- The 6" motor supply from 2HP to 15HP which power in 220V/380VAC spec.



PC-255E(A) PC-380E(A)

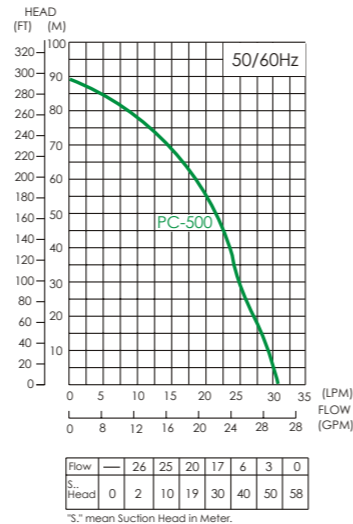


Model	Power		Outlet		Suction Head(M)	Maximum		Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		Head(M)	Flow(l/m)		
PC-255E	3/4	550	25	1"	30	50	28	398 x 180 x 206	13.4
PC-255EA	3/4	550	25	1"	30	50	28	398 x 180 x 206	17.7
PC-380E	1	750	25	1"	35	60	30	398 x 180 x 206	14
PC-380EA	1	750	25	1"	35	60	30	398 x 180 x 206	18.5

Remarks: Model with "A" equips with pressure tank.

PC-500E

Suction down to 50 meters

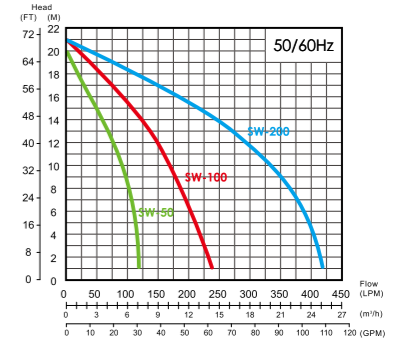


Model	Power		Outlet		Suction Head(M)	Maximum		Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		Head(M)	Flow(l/m)		
PC-500E	7/10	500	25	1"	50	90	28	400 x 215 x 265	14.8

Remarks: Model with "A" equips with pressure tank.



SW Series

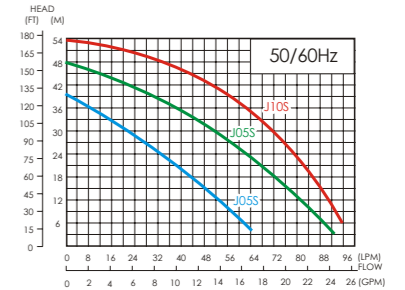


Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension LxWxH(mm)	Weight Kg
	HP	KW	mm	Inch		3M	6M	9M	12M	15M			
SW-50	1/2	0.4	25	1"	120	118	112	100	80	50	20	320 x 160 x 190	10
SW-100	1	0.75	40	1-1/2"	240	125	205	180	150	110	21	360 x 160 x 190	18
SW-200	2	1.5	50	2"	420	410	390	350	295	220	21	420 x 180 x 240	20



J05/J07/J10S

Shallow Well Jet pump

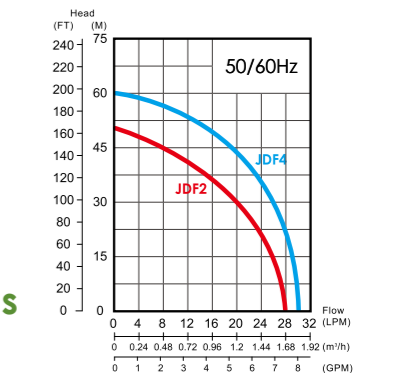


Model	Output		Outlet		Rated		Maximum		Dimension L x W x H (mm)	Weight Kg
	HP	KW	mm	Inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)		
J05S	1/2	0.4	25	1"	30	22	40	65	400 x 190 x 210	15
J07S	3/4	0.55	25	1"	40	22	48	90	460 x 230 x 235	20
J10S	1	0.75	25	1"	42	22	54	95	460 x 230 x 235	21



JDF Series

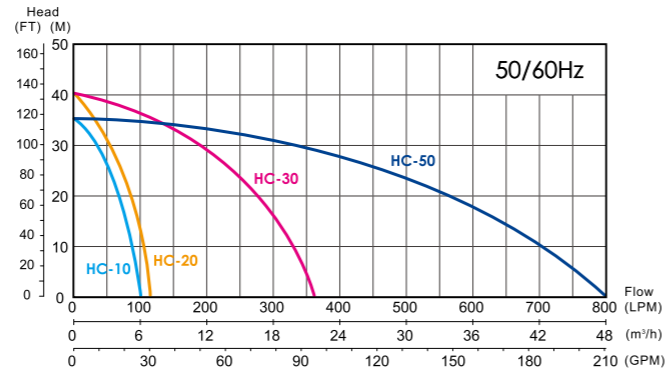
Convertible Well Jet Pumps



Model	Power		Outlet		Suction Head(M)	Maximum		Dimension L x W x H (mm)	Weight Kg
	HP	W	mm	Inch		Head(M)	Flow(l/m)		
JDF2	3/4	550	25	1"	30	50	28	398 x 180 x 206	13.4
JDF4	1	750	25	1"	35	60	30	398 x 180 x 206	14

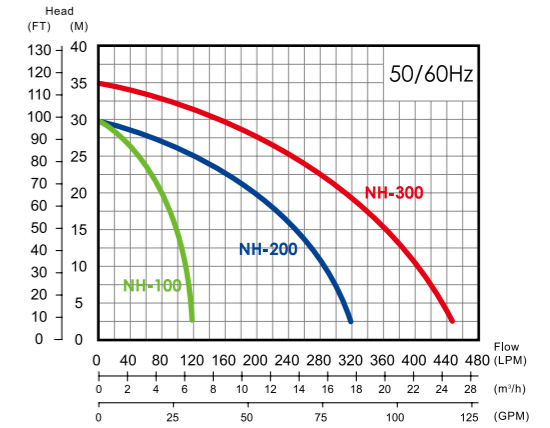
HC Series

Two Stage Design
Self-priming pump



Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch		5M	10M	15M	20M	25M			
HC-10	1	0.75	25	1"	100	90	87	75	67	55	35	150 x 250 x 280	31
HC-20	2	1.5	50	2"	115	110	105	95	88	75	40	310 x 260 x 370	48
HC-30	3	2.2	50	2"	360	350	330	305	275	235	40	270 x 300 x 340	50
HC-50	5	3.7	50	2"	800	760	700	640	565	475	35	270 x 300 x 340	57

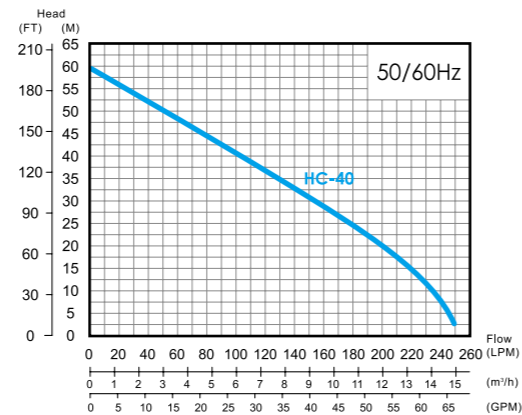
NH Series



Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch			5M	10M	15M	20M	30M			
NH-100	1	0.75	25	1"	1	120	118	110	100	80	-	31	285 x 390 x 220	30
NH-200	2	1.5	50	2"	1	310	310	285	240	200	-	28	285 x 390 x 220	32
NH-300	3	2.2	50	2"	1	420	435	400	365	310	155	34	285 x 390 x 220	45

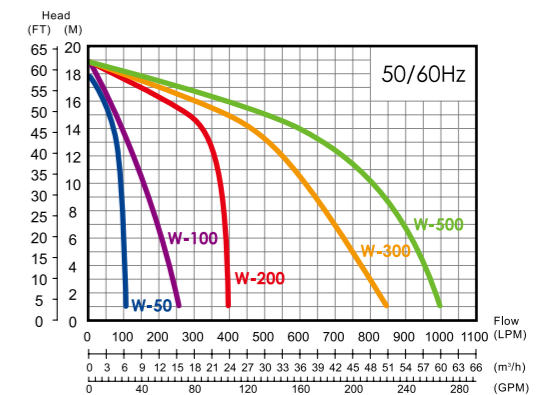
HC-40

Hillside Irrigation & Sprinkler Water System



Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch		5M	10M	20M	30M	40M			
HC-40	4	3	50	2"	250	245	235	200	155	105	60	536 x 315 x 290	54

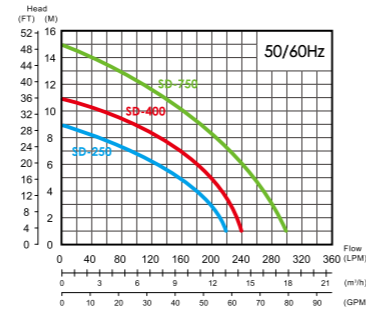
W Series



Model	Output		Outlet		Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	KW	mm	Inch		3M	6M	9M	12M	15M			
W-50	0.5	0.4	25	1"	110	108	103	97	86	60	18	340 x 160 x 200	10
W-100	1	0.75	40	1-1/2"	260	240	210	170	125	75	19	400 x 220 x 220	18
W-200	2	1.5	50	2"	400	397	392	385	360	290	19	420 x 250 x 240	20
W-300	3	2.2	80	3"	850	800	730	650	550	400	19	440 x 270 x 270	30
W-500	5	3.7	100	4"	1000	970	920	840	720	520	19	570 x 350 x 370	67

SD Series

Stainless Steel Double Casing for Water Cools Motor



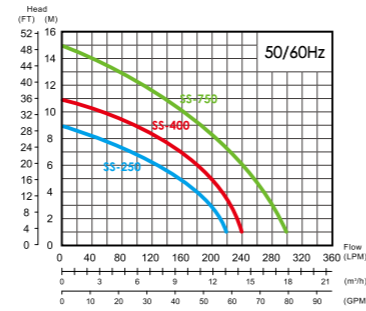
Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	6M	9M	12M			
SD-250	1/3	250	50	2"	7	220	215	197	130	-	-	9	181 x 181 x 340	12
SD-400	1/2	400	50	2"	10	240	237	225	180	100	-	11	181 x 181 x 340	12
SD-750	1	750	50	2"	10	300	295	280	240	185	110	15	181 x 181 x 343	15

Remarks: Model No. ends with "A" is equipped with float switch.



SS Series

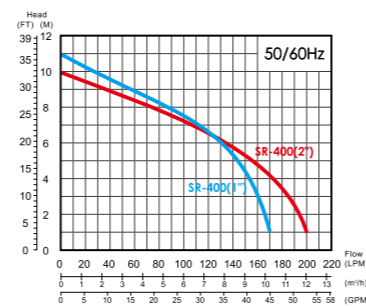
Stainless Steel Double Casing for Water Cools Motor



Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	6M	9M	12M			
SS-250	1/3	250	50	2"	7	220	215	197	130	-	-	9	181 x 181 x 340	24
SS-400	1/2	400	50	2"	10	240	237	225	180	100	-	11	181 x 181 x 340	24
SS-750	1	750	50	2"	10	300	295	280	240	185	110	15	181 x 181 x 343	25

SR Series

Residue Dewatering

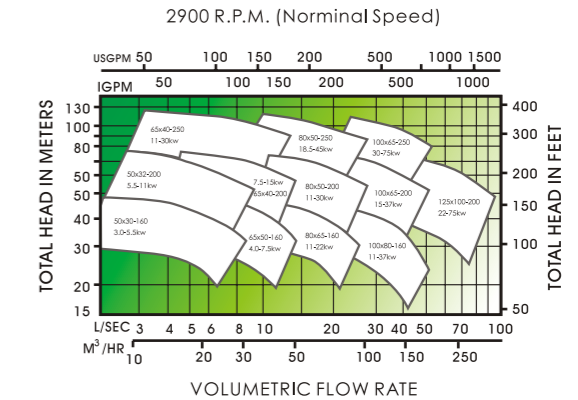
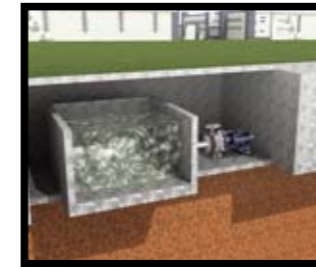


Model	Output		Outlet		Pass solid Dia(mm)	Max Flow(LPM)	LPM Flow @ Head					Max Head(M)	Dimension L×W×H(mm)	Weight Kg
	HP	W	mm	Inch			1.5M	3M	4.5M	6M	7.5M			
SR-400 1"	1/2	400	25	1"	7	170	165	160	150	130	100	11	181 x 181 x 340	16
SR-400 2"	1/2	400	50	2"	7	200	195	185	165	135	90	10	181 x 181 x 340	16



CP Series

Chemical Pumps



Model	Inlet	Outlet	Impeller Size	Carriage Seal	Input Shaft Dia.	Driven Power	Max. Capacity Head / Flow	Rated Capacity Head / Flow
50 32 -160	50mm	32mm	160mm	Dia. 35 mm Seal	24 x 50 mm L	24 x 50 mm L	35m / 18m3/h	32m / 12.5m3/h
50 32 -200	50mm	32mm	200mm		24 x 50 mm L	24 x 50 mm L	53m / 17m3/h	50m / 12.5m3/h
65 50 -160	65mm	50mm	160mm		24 x 50 mm L	24 x 50 mm L	35m / 34m3/h	32m / 25m3/h
65 40 -200	65mm	40mm	200mm		24 x 50 mm L	24 x 50 mm L	55m / 32m3/h	50m / 25m3/h
65 40 -250	65mm	40mm	250mm	Dia. 50 mm Seal	32 x 80 mm L	32 x 80 mm L	82m / 34m3/h	80m / 25m3/h
80 65 -160	80mm	65mm	160mm	Dia. 35 mm Seal	24 x 50 mm L	24 x 50 mm L	38m / 64m3/h	32m / 50m3/h
80 50 -200	80mm	50mm	200mm		24 x 50 mm L	24 x 50 mm L	58m / 63m3/h	50m / 50m3/h
80 50 -250	80mm	50mm	250mm		32 x 80 mm L	32 x 80 mm L	85m / 62m3/h	80m / 50m3/h
100 80 -160	100mm	80mm	160mm		32 x 80 mm L	32 x 80 mm L	40m / 140m3/h	32m / 100m3
100 65 -200	100mm	65mm	200mm	Dia. 50 mm Seal	32 x 80 mm L	32 x 80 mm L	57m / 130m3/h	50m / 100m3/h
100 65 -250	100mm	65mm	250mm		32 x 80 mm L	32 x 80 mm L	90m / 136m3/h	80m / 100m3/h
125 100 -200	125mm	100mm	200mm		32 x 80 mm L	32 x 80 mm L	64m / 250m3/h	50m / 200m3/h

SR Series

Residue Dewatering



SSR / FTB

SSR series - Root Blowers

Model	Bore	RPM	Power	Discharge Pressure	Weight
			KW	kpa	Kg
SSR-50 ~ SSR-200	50A ~ 200A	1100 ~ 2100	0.75 ~ 45	9.8 ~ 58.8	74 ~ 850
FTB-50 ~ FTB-200	50A ~ 200A	1100 ~ 2100	0.75 ~ 110	9.8 ~ 78.4	80 ~ 850

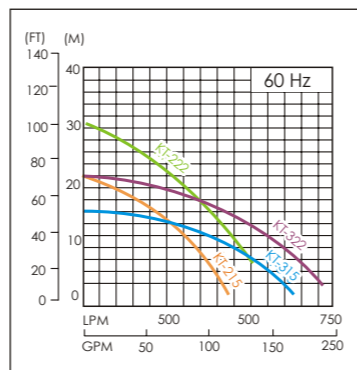
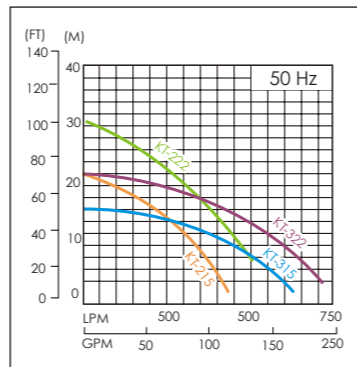


KT / KR Series

Contractor Pumps

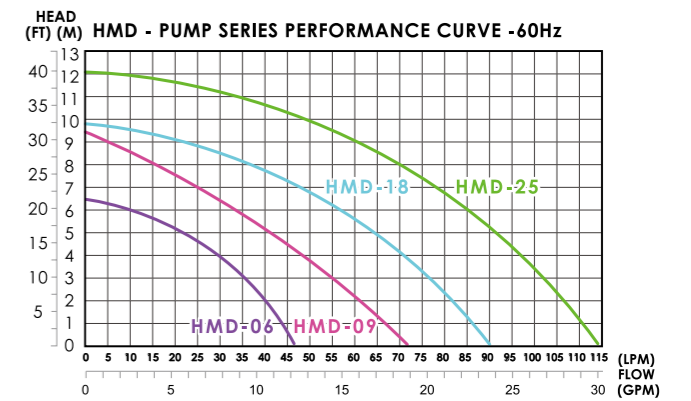
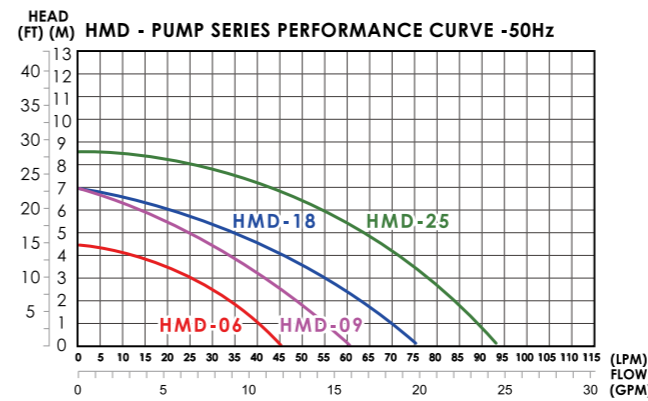
Model	Output		Outlet		Rated		Maximum		Dimension L x W x H (mm)	Weight Kg	Pass Solids mm
	HP	KW	mm	Inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)			
KT-215	2	1.5	50	2	15	250	22	450	240 x 225 x 583	33	8
KT-222	3	2.2	50	2	20	300	27	500	240 x 225 x 583	38	8
KT-315	2	1.5	80	3	8	500	16	650	240 x 225 x 609	33	10
KT-322	3	2.2	80	3	10	600	20	800	240 x 225 x 609	38	10
KT-237	5	3.7	50	2	20	280	36	500	283 x 252 x 635	62	10
KT-337	5	3.7	80	3	18	500	30	900	283 x 252 x 635	62	10
KT-437	5	3.7	100	4	11	800	18	1500	283 x 252 x 635	62	15
KT-355	7.5	5.5	80	3	18	700	32	1200	306 x 259 x 680	77	10
KT-455	7.5	5.5	100	4	15	950	22	1700	306 x 259 x 680	77	15
KT-475	10	7.5	100	4	30	800	40	1500	377 x 342 x 892	127	15
KT-675	10	7.5	150	6	15	1600	30	2200	377 x 342 x 892	127	15
KT-4110	15	11	100	4	35	1000	48	1600	377 x 342 x 892	140	15
KT-6110	15	11	150	6	20	1700	32	2400	377 x 342 x 892	140	15
KR-819H	25	19	200	8"	20	3000	29	5500	580 x 540 x 1294	395	30
KR-819L	25	19	200	8"	15	4000	29	5500	580 x 540 x 1294	395	30
KR-822H	30	22	200	8"	30	2000	35	5500	580 x 540 x 1294	410	30
KR-822L	30	22	200	8"	15	5000	25	6500	580 x 540 x 1294	410	30

KT 215~322

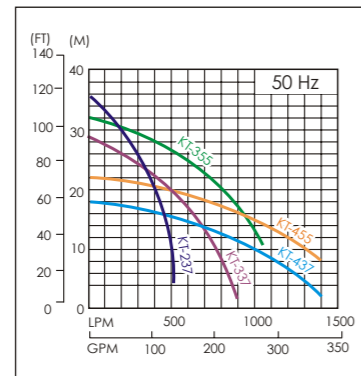
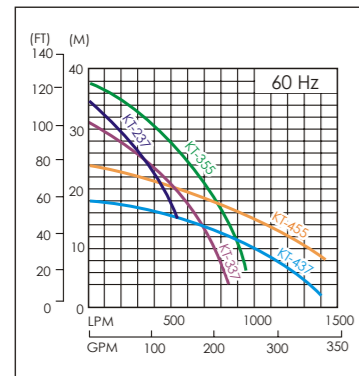


HMD Magnet Pump Series

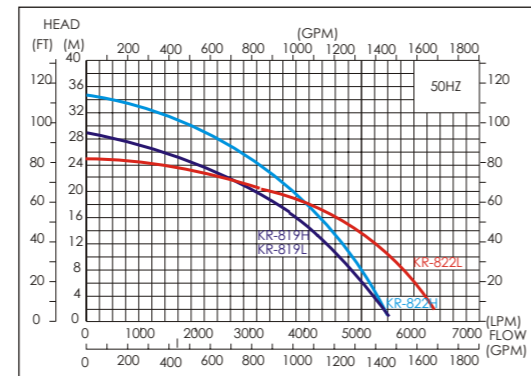
Applied to wide range Chemical fluid



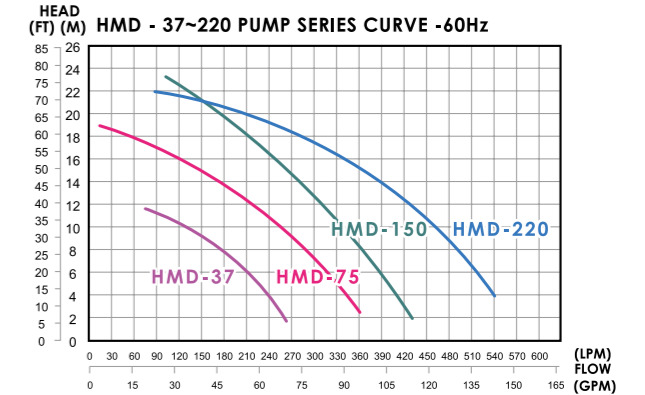
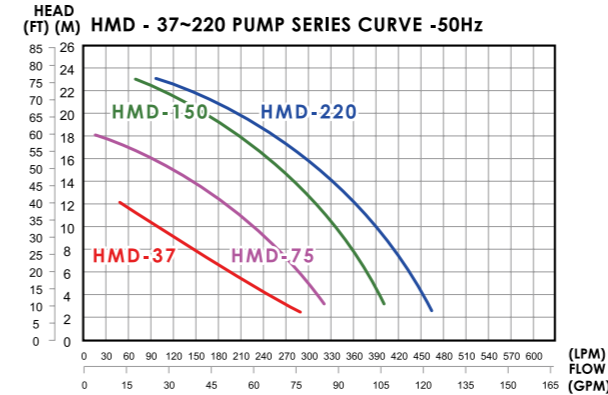
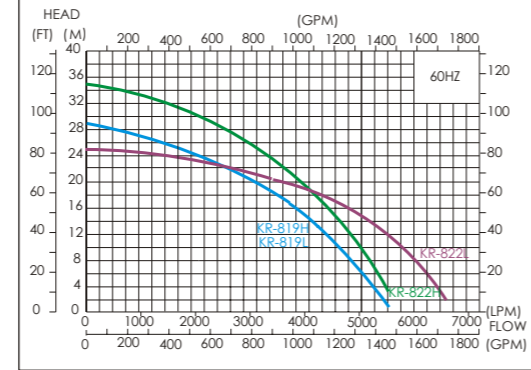
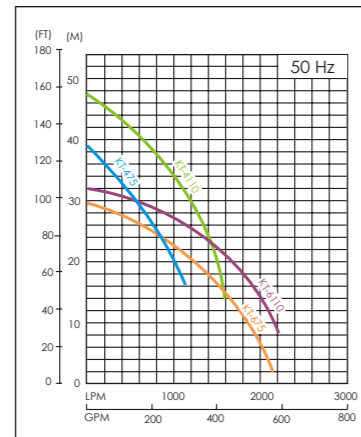
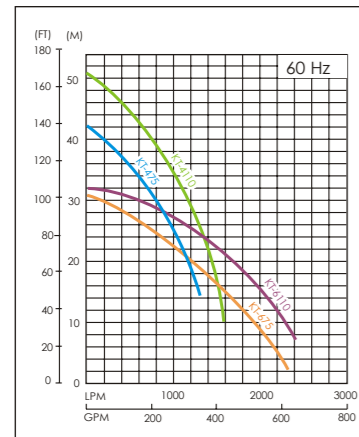
KT 237~455



KR Series



KT 475~6110

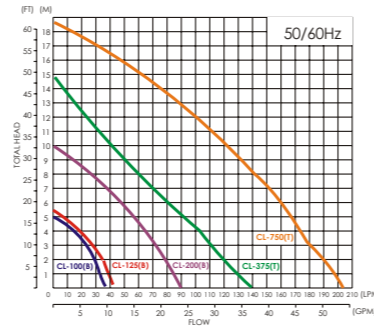


TYPE	OUTPUT		DISCHARGE		MAXIMUM(50Hz)		MAXIMUM(60Hz)		DIMENSION AND WEIGHT	
	HP	W	mm	inch	head M	capacity LPM	head M	capacity LPM	L x W x H mm	Weight KGS
HMD-06	1/10.	65	20	PF3/4"	4.6	37	6.5	45	272x103x126	4
HMD-09	1/8.	90	26	PF1"	7	60	9.5	70	270x138x153	6
HMD-18	1/5.	180	26	PF1"	7	73	9.7	87	270x138x153	7
HMD-25	1/3.	250	26	PF1"	8.6	91	12	110	345x135x157	8
HMD-37	1/2-	400	40A	1-1/4" F	12	285	11.5	280	443x140x236	12
HMD-75	1.0-	750	40A	1-1/4" F	18	355	19	360	521x160x260	22
HMD-150	2.0-	1500	50A	2" F	23	390	23	422	529x260x255	27
HMD-220	3.0-	2200	50A	2" F	23	465	22	545	563x260x255	29
HMD-350	5.0-	3700	50A	2" F	25	570	24	650	683x250x316	35



CL Series

Cooling Pumps

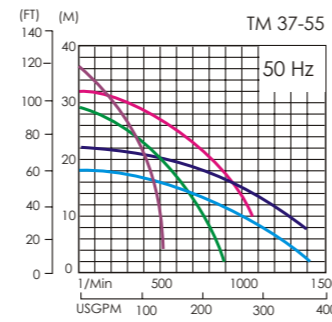


Model	POWER & Outlet		Single Phase		Three Phase		Weight	Motor Dimension	Combined Filter
	HP	Bore	Max Q(l/m)	Max H(M)	Max Q(l/m)	Max H(M)			
CL-100(A)	1/8	3/8" PT	35	5.4	37	6	3.3	160 x 124 x 145	90x 124x(100,130,150,180,220)
CL-100(B)	1/8	1/2" PT	40	5.2	42	5.7	3.3	160 x 124 x 145	90x 124x(100,130,150,180,220)
CL-125(A)	1/6	3/8" PT	37	5.6	40	5.6	3.7	160 x 124 x 145	90x 124x(130,150,180,220)
CL-125(B)	1/6	1/2" PT	45	5.5	47	5.5	3.7	160 x 124 x 145	90x 124x(130,150,180,220)
CL-200(A)	1/4	1/2" PT	72	9.8	74	10.4	6.4	191 x 160 x 186	126x 160x(155,180,200,220,240,270,350)
CL-200(B)	1/4	3/4" PT	87	9.5	94	10.2	6.4	191 x 160 x 186	126x 160x(155,180,200,220,240,270,350)
CL-375(T)	1/2	1" PT	130	13	140	15	7.5	196 x 170 x 205	126x 170x(150,180,240,290)
CL-750(T)	1	1" PT	130	13	205	19	8.7	196 x 170 x 220	126x 170x(180,240,290,380)

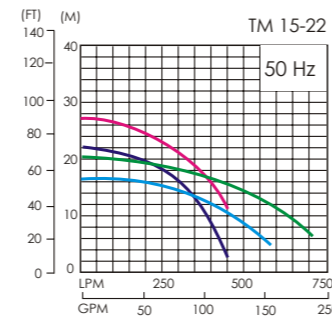


TM Series

Stainless Steel Double Casing

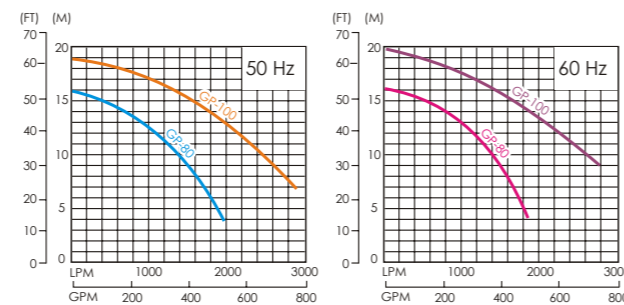


Model	Output		Outlet		Rated		Maximum		Dimension		Weight	Pass Solid
	HP	KW	mm	Inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)	L x W x H (mm)	Kg		
TM-15H	2	1.5	50	2	15	250	22	450	228 x 228 x 602	39	8	
TM-15L	2	1.5	80	3	8	500	16	650	228 x 228 x 602	39	8	
TM-22H	3	2.2	50	2	20	300	27	500	228 x 228 x 602	41	10	
TM-22L	3	2.2	80	3	10	600	20	800	228 x 228 x 602	41	10	
TM-37H	5	3.7	50	2	30	200	36	500	274 x 271 x 704	73	10	
TM-37M	5	3.7	80	3	20	500	30	900	274 x 271 x 693	73	10	
TM-37L	5	3.7	100	4	10	1000	18	1500	274 x 271 x 693	73	15	
TM-55H	7.5	5.5	80	3	25	600	32	1200	274 x 271 x 730	82	10	
TM-55L	7.5	5.5	100	4	15	1000	22	1700	274 x 271 x 723	82	15	



GP Series

Agitator Pumps



Model	Output		Outlet		Rated		Maximum		Dimension		Weight	Pass Solid
	HP	KW	mm	Inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)	L x W x H (mm)	Kg		
GP-80	7.5	5.5	80	3"	12	1100	16	2100	547 x 742 x 798	135	30	
GP-100	15	11	100	4"	15	1600	19	3400	637 x 749 x 831	230	30	



KG Series

Available in Stainless Steel or Cast Iron Body

Model	Output		Outlet		Max. Flow	Pressure	R.P.M.
	HP	KW	mm	Inch			
KG-1	1/2	0.4	13	1/2"	14	3	450
KG-2	1/2-1	0.4-0.75	29	3/4"	35	4	430
KG-3	1~2	0.75~1.5	25	1"	48	4	430
KG-4	1~3	0.75~2.2	32	1-1/4"	56	4	430
KG-5	2~5	2.2~3.7	40	1-1/2"	95	4	430
KG-6	3~5	1.5~3.7	50	2"	150	4	430
KG-7	5~7.5	3.7~5.5	75	2-1/2"	200	4	360
KG-8	7.5~10	3.5~7.5	80	3"	260	4	350
KG-9	15~30	11~22	100	4"	500	4	350



H Series

H Series	Model	H700721 3/4" NPT			H700722 1" NPT		
		Head in Feet	RPM	900	1200	1800	900
0	Head 0 psi Flow	7 GPM	9 GPM	14 GPM	8 GPM	12 GPM	16 GPM
57	Head 25 psi Flow	6.25 GPM	8.3 GPM	12 GPM	7.25 GPM	9.6 GPM	14.5 GPM
115	Head 50 psi Flow	6 GPM	8 GPM	11 GPM	6.5 GPM	8.6 GPM	13 GPM
173	Head 75 psi Flow	5.5 GPM	7.3 GPM	10.5 GPM	6 GPM	8 GPM	12 GPM
231	Head 100 psi Flow	5 GPM	6.6 GPM	10 GPM	5.3 GPM	7.1 GPM	10.5 GPM



RB/TB Series

RB series - Ring Blowers

Model	Power	Max Pressure	Max Air Flow	Outlet	Noise Level
	KW	mm H2O	m³/min	Inch	DB
RB-022 ~ RB-1520	0.18 ~ 15	500 ~ 3500	0.6 ~ 28	PF 1" ~ 4"	60 ~ 87

TB series - Turbo Blowers

Model	Power	Max Pressure	Max Air Flow	Outlet	Noise Level
	KW	mm H2O	m³/min	Inch	DB
TB-201 ~ TB-20020	0.75 ~ 7.5	170 ~ 700	14 ~ 90	4" ~ 8"	65 ~ 110



UP-906A

Best Mate for Cleaning Fins of Air Conditioner

Model	Output		Outlet		Rated		Maximum		Dimension		Weight
	HP	W	mm	Inch	Head(M)	Flow(l/m)	Head(M)	Flow(l/m)	L x W x H (mm)		
UP-906A	1	750	13	3/8"	5~35Kg/cm ²	7	350	7	330 x 300 x 240	16	

Remarks: One liter per rotation.



HP-1000

Higher Suction Force With Precision Gear Shape Combination

Model	Max Flow Liters	Purpose
HP-1000	(1 liter/rotation)	Transfer viscid liquids as gasoline, kerosene, diesel, machining oil, etc. One liter for one rotation.--Get one liter quantity volume from the outlet when you rotate the handle one rotation.



BDC

Solar Pump
DC Power: 24V / 36V / 48V

Model	Output		Outlet		Rated		Maximum		Dimension		Weight
	W	mm	Inch	Head(M)	Flow(LPM)	Head(M)	Flow(LPM)	L x W x H(mm)			
BDC-400	300	50	2	4	100	6.5	170	236 x 145 x 352	8		



DC Series

Model	DC Volts	Current Amps	Outlet Inch	Max. Head Feet	Max. Flow Gal/hr	Dimension L x W x H(mm)
DC-612	12	4	3/4"	18	600	88 x 88 x 135
DC-624	24	2	3/4"	18	600	88 x 88 x 135
DC-1812	12	8	1"	15	1800	121 x 121 x 165
DC-1824	24	5	1"	15	1800	121 x 121 x 165
DC-2312	12	11	1"	17	2300	121 x 121 x 190
DC-2324	24	6	1"	17	2300	121 x 121 x 190
DC-3024	24	8	1-1/4"	18	3000	132 x 132 x 195



BCP-20

Condensate Pump

Model	Power		Discharge		Rated		Maximum		Dimension		Weight
	Voltage	W	mm	Inch	Head(M)	Flow(GPM)	Head(M)	Flow(GPH)	L x W x H (mm)		
BCP-20	115V	60	10.7	1/4"	3.5	38	5.2	83	253 x 126 x 117.5	1.6	



Bubble Diffusers

Model	Performance				Material				Dimension		
	Air Flow (m ³ /hr)	Sote(%)	Bubble Dia. (mm)	Connection	Frame	Membrane	Check Valve	Disc Dia (mm)	Disc Height (mm)	Check Valve Dia.(mm)	
CDF-250E	6-8	20-40	1-3	PT 3/4"	ABS	EPDM	EPDM	250	105	78	
CDF-250N	6-8	20-40	1-3	PT 3/4"	ABS	EPDM	EPDM	250	105	26	

HK Series

Air Pumps



Specification Item	Model												
	HK-25L		HK-40L		HK-60L		HK-80L		HK-100L		HK-120L		
Rated voltage (V)	AC115* /AC230^												
Power frequency (HZ)	50	60	50	60	50	60	50	60	50	60	50	60	
Normal pressure kgf/cm ²	0.1(1.42psi)		0.13(1.85 psi)		0.15(2.13 psi)		0.18(2.56psi)		0.20(2.845psi)				
Exhaust Quantity (L/min)	25	25	46	45	70	65	84	82	108	105	125	123	
Power (w)	22	27	38	35	63	60	78	81	98	110	130	130	
Noise Level (dB)	33	33	32	36	37	38	39	39	41	40	42	43	
Closed pressure	psi	5.26	4.98	5.4	6.28	7.24	6.83	7.8	7.68	8.25	6.69	7.25	6.69
	kg-f/cm ²	0.37	0.35	0.38	0.44	0.51	0.48	0.55	0.54	0.58	0.47	0.51	0.47
Weight (kg)	2.9	2.9	5.4	5.4	6.26	6.26	6.28	6.28	8.9	8.9	8.9	8.9	
Article no.	HB25L.230V	HB25L.115V	HB40L.230V	HB40L.115V	HB60L.230V	HB60L.115V	HB80L.230V	HB80L.115V	HB100L.230V	HB100L.115V	HB120L.230V	HB120L.115V	



PH Series

Type	Cable Length	Weight	Piggyback
PH-30W	3 meters	V	N/A
PH-50W	5 meters	V	N/A
PH-06	0.6 meters	N/A	N/A
PB-30	3 meters	N/A	V
PB-50	5 meters	N/A	V
PB-30W	3 meters	V	V
PB-50W	5 meters	V	V



EDT Series

Apply for RO tank & drinking water which will not contact with metal.



EFS-25

Can manually use on/off settings. Better than other brands, EC can be used in multiple directions.



ECT Series



PT Series

Apply for RO tank & drinking water which will not contact with metal.



EC Series

Can manual on/off setting. Better than other brands, EC can use in Multiple direction.

Type	EC-110	EC-220
POWER	100~120VAC	200~240VAC
MAX. Amp	10A	10A
MAX. HP	1/2HP(0.37KW)	1HP(0.75KW)
Min/Max Pressure	2.3 Kg/cm ²	6 Kg/cm ²
Max Pressure	10 Bar.	
Discharge	1"	1"
Max. Fluid Temp.	60°C	

Unit conversion tables

• Power Conversions

	HP	KW
HP	1	0.75
KW	1.341	1

$$KW = \frac{m^3 / hr \times \text{total head in meters} \times S.G.}{367.87 \times \text{Pump Efficiency}} \quad BHP = \frac{IMP.GPM \times \text{Total head in Ft} \times S.G. \times 10}{33,000 \times \text{Pump Efficiency}}$$

• Pressure

	Pascal Pa, (N/m ²)	Bar	Kp/m ²	Meter Water Column (mWC)	Technical atmosphere at (kp/cm ²)	Physical atmosphere atm	psi (lb/in ²)
1 Pa	1	10 ⁻⁵	0.1020	1.020 * 10 ⁻⁴	1.020 * 10 ⁻⁵	9.869 * 10 ⁻⁴	1.450 * 10 ⁻⁴
1 bar	10 ⁵	1	10197	10.20	1.020	0.9869	14.50
1 Kp/m ²	9.8067	9.807 * 10 ⁻⁵	1	10 ⁻³	10 ⁻⁴	0.9678 * 10 ⁻⁴	1.450 * 10 ⁻³
1 mWC	9806.7	0.09807	10 ³	1	0.1	0.09678	1.422
1 at	98067	0.9807	10 ⁴	10	1	0.9678	14.22
1 atm	101325	1.013	10333	10.33	1.033	1	14.7
1 psi	6895	0.06895	703.1	0.7031	0.07031	0.06804	1

• Flow (volume)

	LPS (l/sec)	LPM (l/min)	CMH (m ³ /hr)	CFM (ft ³ /min)	CFH (ft ³ /hr)	US GPM	UK GPM
1 LPS	1	60	3.6	2.119	127.1	15.85	15.85
1 LPM	0.01667	1	0.06	0.03532	2.119	0.2642	0.22
1 CMH	0.2778	16.67	1	0.589	35.31	4.403	3.667
1 CFM	0.472	28.32	1.7	1	60	7.48	6.2286
1 CFH	7.87 * 10 ⁻³	0.472	0.2832	0.01667	1	0.1247	0.1038
1 US GPM	0.06309	3.785	0.2271	0.1337	8.021	1	0.8327
1 UK GPM	0.07577	4.5458	0.02728	0.1606	9.6332	1.201	1

• SI-prefixes and Greek alphabet

Factor		Symbol	Prefix
10 ⁹	1,000,000,000	G	giga
10 ⁶	1,000,000	M	mega
10 ³	1000	k	kilo
10 ²	100	h	hekto
10	10	da	deka
10 ⁻¹	0.1	d	deci
10 ⁻²	0.01	c	centi
10 ⁻³	0.001	m	milli
10 ⁻⁶	0.000.001	μ	mikro
10 ⁻⁹	0.000.000.001	n	nano

• Motor Insulation class

Class of insulation	E	B	F	H
Maximum temperature rise by resistance	75K	80K	100K	125K
Average temperature at 40°C ambient	115°C	120°C	140°C	165°C
Limiting hot spot temperature	120°C	130°C	155°C	180°C

• Temperature

The comparison listed below show how to convert the most commonly used units for temperature.

From degrees Celsius to Kelvin : T [K] = 273.15 + t [°C]

From degrees Celsius to degrees Fahrenheit : t [°F] = 32 + 1.8 t [°C]

Degrees Celsius	Kelvin	Degrees Fahrenheit
°C	K	°F
0	273.15	32
100	373.15	212
-17.8	255.35	0

ΔT, Δt	Δt	Δt	Δt
	°C	K	°F
1 °C =	32	273.15	32
1 K =	212	373.15	212
1 °F =	0	255.35	0

• NEMA Definitions Pertaining to Non-Hazardous Locations:

Type	Description
1	Intended for use primarily to provide a degree of protection against limited amounts of falling dirt.
3	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and damage from external ice formation.
3R	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.
3S	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and to provide for operation of external mechanisms when ice laden.
4	Intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.
4X	Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from ice formation.
6	Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during occasional temporary submersion at a limited depth, and damage from external ice formation.
6P	Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth, and damage from external ice formation.
12	Intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.
12K	Type 12 with knockouts.
7	Intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the National Electrical Code.
8	Intended for indoor or outdoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the National Electrical Code.
9	Intended for indoor use in locations classified as Class II, Groups E, F, or G, as defined in the National Electrical Code.
10	Constructed to meet the applicable requirements of the Mine Safety and Health Administration.

• IEC Definitions

The IEC standard 60529, has defined Ingress Protection as a two digit code. The first digit describes the degree of protection against access to ingress of solid objects. The second digit designates the Ingress Protection against water. Please refer to the appropriate sections of IEC 60529 for complete information regarding applications, features, and design tests.

Protection Against Ingress of Solid Foreign Objects (First Digit)		Protection Against Ingress of Liquids (Second Digit)	
Number	Description	Number	Description
0	Non-protected	0	Non-protected
1	Objects equal or greater than 50mm	1	Water dripping vertically
2	Objects equal or greater than 12.5mm	2	Water dripping, enclosure tilted up to 15°
3	Objects equal or greater than 2.5mm	3	Spraying water, up to 60° angle from vertical
4	Objects equal or greater than 1mm	4	Splashing water, any direction
5	Dust protected	5	Jetting water, any direction
6	Dust tight	6	Powerful jetting water, any direction
		7	Temporary immersion in water
		8	Continuous immersion in water

• NEMA to IEC Enclosure Designations

NEMA Enclosure Type Number	IEC Enclosure Designation
1	IP10
2	IP11
3	IP54
3R	IP14
3S	IP54
4 and 4X	IP56
5	IP52
6 and 6P	IP67
12 and 12K	IP52
13	IP54