

Pump Lineup



TERAL

SUBMERSIBLE PUMP SERIES

50Hz



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Model	APL Waste water pump	APV Sewage pump	ASU Waste water and Sewage pump	ABO Sewage pump	AVC Sewage pump	ACU Sewage pump	AGO Grinder pump	
Photo								
Impeller	Semi-open Enclosed-channel (100APL-52.2(S))	Vortex (APV) Semi-open (APVH)	Semi-open	Semi-open (1.5~3.7kW) Enclosed-channel non-clog(5.5~45kW)	Vortex(AVC, AVCL) Semi-open (AVCH)	Vortex	Vortex	
Liquid	Waste water	Waste water Sewage water Industrial waste water	Waste water Sewage water Drainage water	Waste water Sewage water	Waste water Sewage water	Waste water Sewage water	Residential waste water Sewage water	
Coverage	Disc.diameter (mm)	50 · 80 · 100	50 · 80 · 100	80 ~ 400	50 · 80	50 · 80 · 100	32 · 50	
	Output (kW)	0.4~2.2	0.4~2.2	1.5~7.5	0.4~2.2	0.4~5.5	1.0~3.7	
	Solid passage (mm)	8~11	25~35	14 ~20	26~120	35~76	25~76	
Material	Casing	FC200	FC200	FC200	FC200	FC200	FC200	
	Impeller	PA(50APL-5.4(S)) · FC200(≥0.4kW)	FC200	FC200	FC200(ABO), Heat treated FC200(ABOG,ABOC)	FC200	FC200 (Cutter SUS440C)	
	Shaft	SUS410 (0.4 · 0.75kW) SUS403 (1.5 · 2.2kW)	SUS410 (0.4 · 0.75kW) SUS403 (1.5 · 2.2kW)	SUS420J2 (≥5.5kW) SUS403 (≤3.7kW)	SUS420J2 (ABO, ABOG) SUS403 (ABOC)	SUS410 (≤0.75kW) SUS403 (≥1.5kW)	SUS403 (0.4 ~ 0.75kW) SUS420J2	SUS403
	Mechanical anical	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC
Page	3	5	7	9	13	15	17	

Model	ACS Amphibious dewatering pump	APLS Stainless waste water pump	APVS Stainless sewage pump	ADS Construction drainage	ADM Agitator pump	AAX Large volume water pump	AAXL Submersible axial pump	SUMP Residential & commercial pump	
Photo									
Impeller	Enclosed-channel	Semi-open	Semi-open	Semi-open Enclosed	Semi-open (80ADM-55.5) Enclosed	Axial-flow Mix-flow (11kW)	Axial-flow	Semi-open	
Liquid	Agriculture irrigation Other drainage	Sanitary sewer Acid/Alkaline/Corrosive Between PH5~11	Sanitary sewer Acid/Alkaline/Corrosive Between PH5~11	Waste water Sewage water Sandy, waste water	Dewatering fluid containing solid sediment	Agriculture irrigation Aquaculture water River water	Waste water, Industry drainage, Agriculture irrigation Aquaculture water	Dirty water from sumps, Clean water, Basins and tanks	
Coverage	Disc.diameter (mm)	50 · 80 · 100 · 150	50	50 · 80	50 · 80 · 100 · 150	80 · 100 · 150	80 · 100 · 150 · 200 · 250 · 300	550~700	25~32
	Output (kW)	1.1~7.5	0.4 · 0.75	0.4~3.7	1.1~7.5	1.5~7.5	0.4~11	37~75	0.1~0.25
	Solid passage (mm)	3.5~10	10	35~50	7.5~10.5	10~10.5	10~33	4	4
Material	Casing	FC200	SCS14	SCS14	FC200	FC200	FC200	AAS(≤0.15kW), PP(≥0.25kW)	
	Impeller	Bronze (≤1.1kW) Chrome steel (≥1.5kW)	SCS14	SCS14	HiCr	HiCr	ALBC3 Bronze	Bronze / Stainless steel	ABS+GF(≤0.15kW), PA(≥0.25kW)
	Shaft	SUS403	SUS316	SUS316	SUS403 (≤3.7kW) SUS420J2 (≥5.5kW)	SUS403 (≤3.7kW) SUS420J2 (≥5.5kW)	SUS410 (≤0.75kW) SUS403 (≥1.5kW)	SUS420J2	SUS410
	Mechanical seal	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	CA/CE (5.5~11kW) SIC/SIC (0.4~2.2kW)	SIC + Hard alloy	Carbon/ Ceramic
Page	19	21	21	23	25	27	29	31	

APL



APPLICATIONS

- Drainage in the digestion tank
- Waste water, Sump drainage
- Drainage of spring water and stagnant water in the construction field
- Dewatering for fish pond or basement and cellars

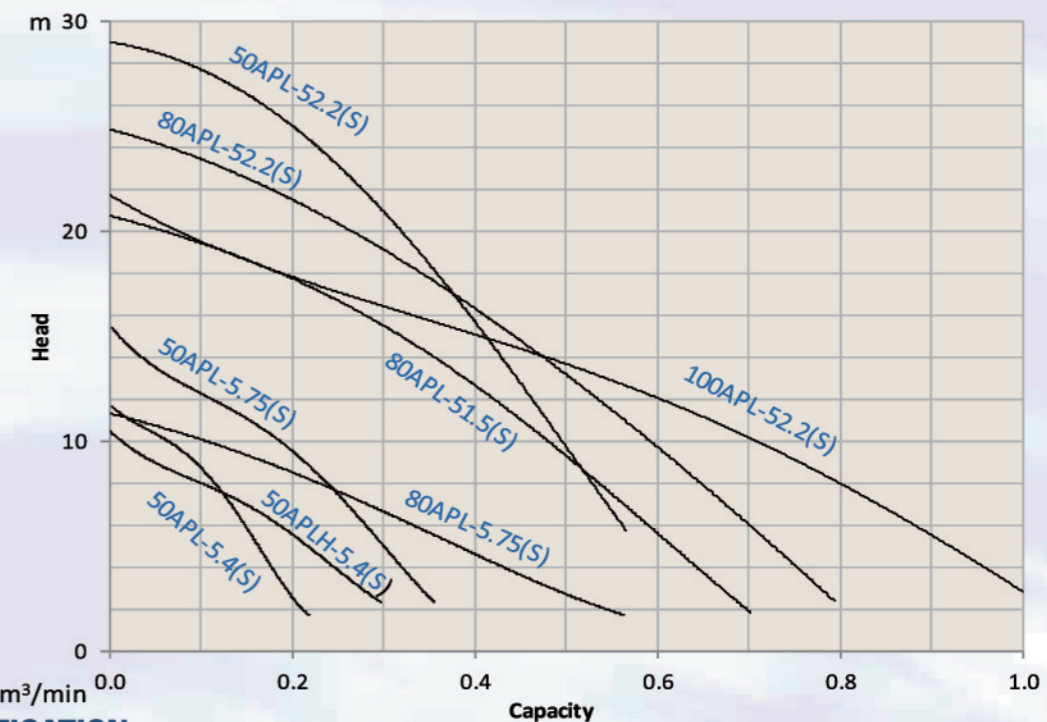
SPECIFICATION

Pumping liquid	Disc.diameter(mm)	50 · 80 · 100	
	Liquid temp	0~40°C	
	Liquid nature	Waste water	
Pump	Max.depth	30M	
	Structure	Impeller	Semi-open & enclosed channel (100APL-52.2(S))
		Mech. seal	Double mechanical seals
	Material	Bearing	Ball type bearing
		Upper cover	FC200
		Impeller	FC200 (50APL-5.4(S):PA)
		Casing cover	FC200
Motor	Type	Dry type	
	Insulation	B class	
	Frequency · Pole	50Hz · 2P	
	Protector	Auto-cut (50APL-5.4S: Overheat protector)	
	Material	Frame	SUS304
		Main shaft	0.4 · 0.75kW : SUS410 1.5 · 2.2kW : SUS403
Cable		VCT	
Optional	Float switch Auto setter		

FEATURES

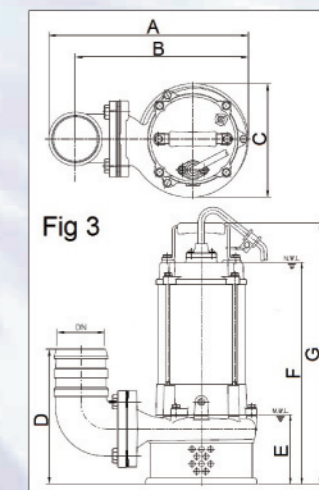
- A precisely manufactured motor is achieved utilizing the highest standard of quality control. To ensure 100% quality manufactured motor with stable performance and highest efficiency, All rotors adopt heat treatment method for drive shaft assembling and stator winding impregnated with varnish and baked in industrial oven.
- Standard accessories include: VCT cable with an epoxy resin sealed water resistant cable base, Auto Cut motor thermal protector, double mechanical seals and lip seal design.

SELECTION CHART

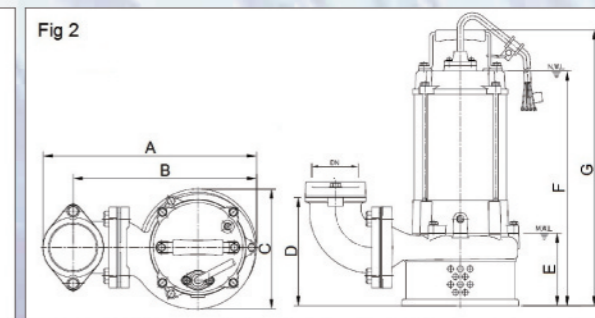
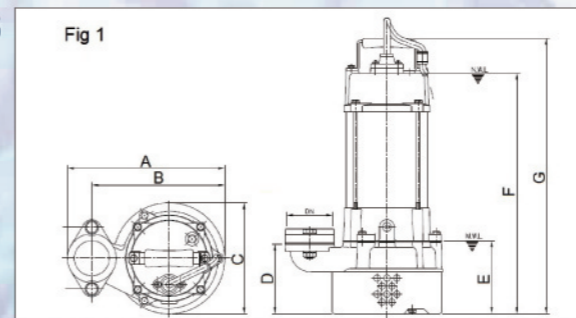


PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Semi-open	50	0.4	1	Capacitor	50APL-5.4S	0.1	8	7.5	14
				3	Direct	50APL-5.4	1	8	7.5	13
			0.75	1	Capacitor	50APLH-5.4S	0.15	7	8	16
				3	Direct	50APLH-5.4	0.15	7	8	15
			2.2	1	Capacitor	50APL-5.75S	0.18	10	10	17
				3	Direct	50APL-5.75	0.18	10	10	16
		80	0.75	1	Capacitor	50APL-52.2S	0.2	24.5	10.5	39
				3	Direct	50APL-52.2	0.2	24.5	10.5	33
			1.5	1	Capacitor	80APL-5.75S	0.3	6.5	10	19
				3	Direct	80APL-5.75	0.3	6.5	10	18
			2.2	1	Capacitor	80APL-51.5S	0.4	12	10.5	42
				3	Direct	80APL-51.5	0.4	12	10.5	37
Enclosed	100	2.2	1	Capacitor	80APL-52.2S	0.4	16	10.5	44	
			3	Direct	80APL-52.2	0.4	16	10.5	38	
			2.2	1	Capacitor	100APL-52.2S	0.7	10	10.5	44
				3	Direct	100APL-52.2	0.7	10	10.5	39



DIMENSIONS



MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APL-5.4S	1	PS 2	227	191	161	86	88	294	349	5000
50APL-5.4	1	PS 2	227	191	161	86	88	294	349	5000
50APLH-5.4S	1	PS 2	245	207	173	109	100	375	430	5000
50APLH-5.4	1	PS 2	245	207	173	109	100	375	430	5000
50APL-5.75S	1	PS 2	245	207	173	109	100	375	430	5000
50APL-5.75	1	PS 2	245	207	173	109	100	375	430	5000
50APL-52.2S	1	PS 2	280	242	216	128	130	420	493	5000
50APL-52.2	1	PS 2	280	242	216	128	130	420	493	5000
80APL-5.75S	1	PS 3	278	224	173	135	142	403	457	5000
80APL-5.75	1	PS 3	278	224	173	135	142	403	457	5000
80APL-51.5S	2	PS 3	385	328	247	195	132	499	573	8000
80APL-51.5	2	PS 3	385	328	247	195	132	421	485	8000
80APL-52.2S	2	PS 3	385	328	216	195	132	500	575	8000
80APL-52.2	2	PS 3	385	328	216	195	132	422	495	8000
100APL-52.2S	3	100	385	333	216	256	130	500	575	8000
100APL-52.2	3	100	385	333	216	256	130	422	495	8000

APV



APPLICATIONS

- Drainage of sewage from the building basements
- Emptying of septic tanks, cesspits and sewage pump station.
- Drainage of sewage from industrial process factories in the construction field
- Pumping surface and drainage water from garages and sprinkler systems

FEATURES

- All rotors adopt heat treatment method for drive shaft assembling and stator winding impregnated with varnish and heat dried in industrial oven.
- Available impellers are Vortex and non-clog Semi-Open.
- Standard accessories include: VCT cable with an epoxy resin sealed water resistant cable base, Auto Cut motor thermal protector, double mechanical seals and lip seals design.

SPECIFICATION

Pumping liquid	Disc diameter(mm)	50 · 80	
	Liquid temp	0~40°C	
	Liquid nature	Waste water · Sewage water and industrial waste water	
Pump	Max. depth	30M	
	Structure	Impeller	Semi-open (APVH) Vortex (APV)
		Mech. seal	Double mechanical seals
	Material	Bearing	Ball type bearing
		Upper cover	FC200
		Impeller	FC200
		Casing	FC200
		Casing cover	FC200
Mech. seal		SIC/SIC	
Motor	Type	Dry type	
	Insulation	B class	
	Frequency · Pole	50Hz · 2P	
	Protector	Auto-cut (50APV-5.4S: Overheat protector)	
	Material	Frame	SUS304
		Main shaft	0.4 ~ 0.75kW : SUS410 1.5 ~ 2.2kW : SUS403
		Cable	VCT
Optional	Float switch Auto setter		

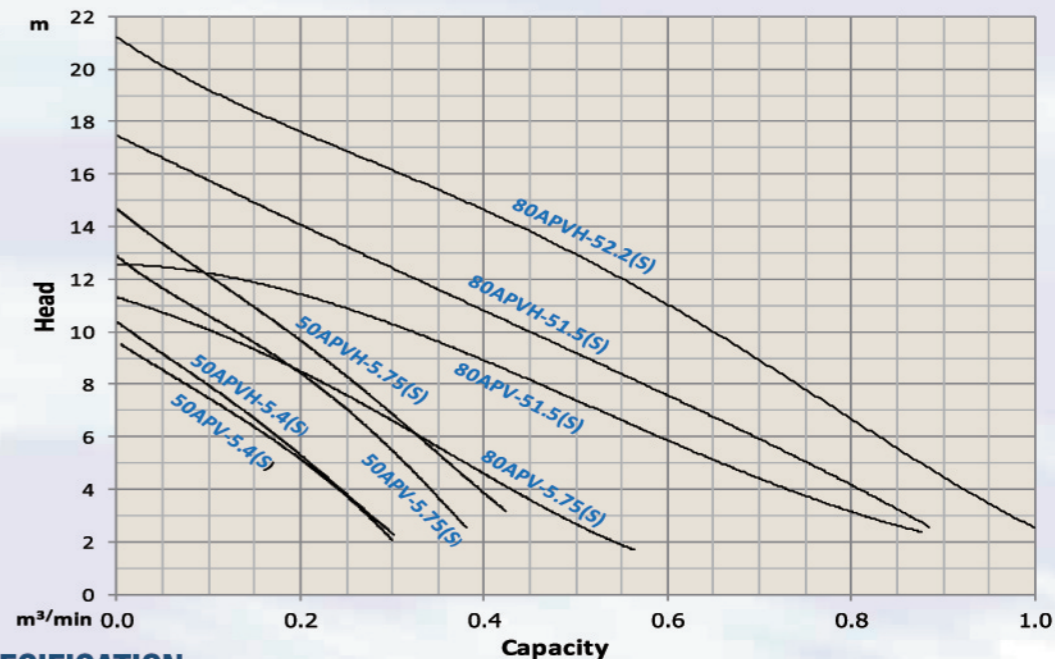
APV TYPE IMPELLER

This impeller can generate rapid rotating vortex to handle fluid mixed with long fiber, the majority of abrasive solids do not touch impeller to minimize impeller wearing. The reversed rotation of 3 phase APV type impeller will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

APVH TYPE IMPELLER

Semi-open impeller cutting foreign particles, and preventing clog by solid media.

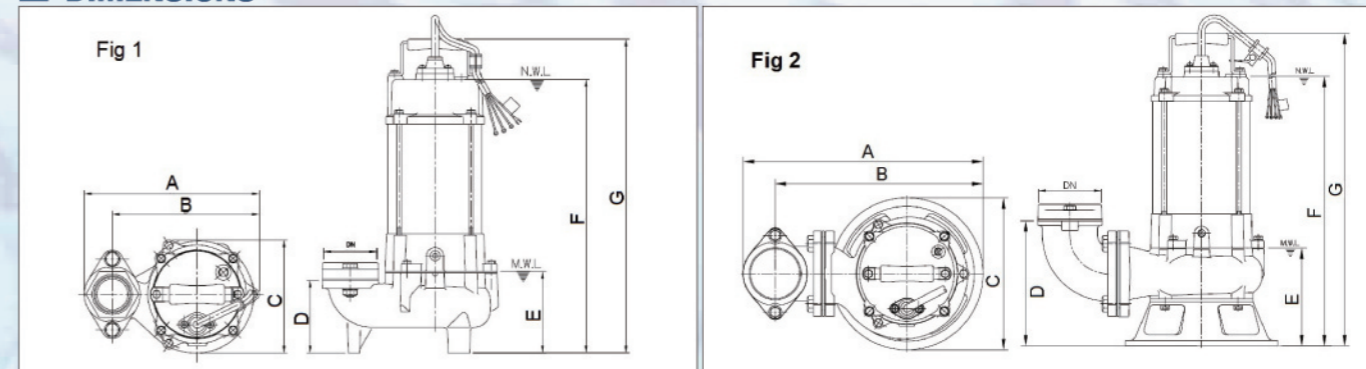
SELECTION CHART



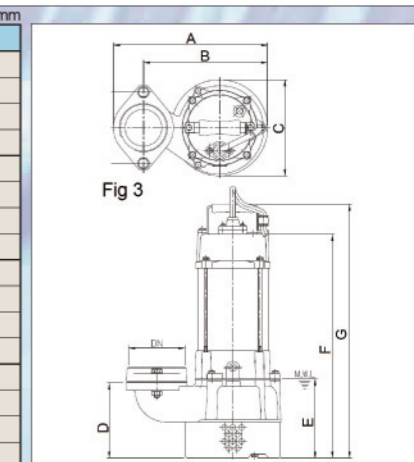
PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Vortex	50	0.4	1	Capacitor	50APV-5.4S	0.15	6	35	16
				3	Direct	50APV-5.4	0.15	6	35	15
			0.75	1	Capacitor	50APV-5.75S	0.2	8	35	18
		3	Direct	50APV-5.75	0.2	8	35	17		
		80	0.75	1	Capacitor	80APV-5.75S	0.3	6.5	30	19
			3	Direct	80APV-5.75	0.3	6.5	30	18	
	1.5		1	Capacitor	80APV-51.5S	0.4	9	25	43	
	3	Direct	80APV-51.5	0.4	9	25	38			
	Semi-Open	50	0.4	1	Capacitor	50APVH-5.4S	0.2	5.5	22	16
				3	Direct	50APVH-5.4	0.2	5.5	22	15
			0.75	1	Capacitor	50APVH-5.75S	0.2	9	26	18
		3	Direct	50APVH-5.75	0.2	9	26	17		
80		1.5	1	Capacitor	80APVH-51.5S	0.5	9	32	43	
			3	Direct	80APVH-51.5	0.5	9	32	38	
	2.2	1	Capacitor	80APVH-52.2S	0.6	10.5	35	45		
3	Direct	80APVH-52.2	0.6	10.5	35	39				

DIMENSIONS



MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APV-5.4S	1	PS 2	237	199	154	99	109	372	427	5000
50APV-5.4	1	PS 2	237	199	154	99	109	372	427	5000
50APV-5.75S	1	PS 2	237	199	154	99	109	372	427	5000
50APV-5.75	1	PS 2	237	199	154	99	109	372	427	5000
80APV-5.75S	3	PS 3	278	224	173	135	142	403	457	5000
80APV-5.75	3	PS 3	278	224	173	135	142	403	457	5000
80APV-51.5S	2	PS 3	408	352	258	215	166	535	610	8000
80APV-51.5	2	PS 3	408	352	258	215	166	458	530	8000
50APVH-5.4S	2	PS 2	276	238	235	143	145	406	406	8000
50APVH-5.4	2	PS 2	276	238	235	143	145	406	406	8000
50APVH-5.75S	2	PS 2	276	238	235	143	145	406	460	8000
50APVH-5.75	2	PS 2	276	238	235	143	145	406	460	8000
80APVH-51.5S	2	PS 3	408	352	258	215	166	535	610	8000
80APVH-51.5	2	PS 3	408	352	258	215	166	458	530	8000
80APVH-52.2S	2	PS 3	408	352	258	215	166	535	610	8000
80APVH-52.2	2	PS 3	408	352	258	215	166	458	530	8000



ASU



APPLICATIONS

- Waste water drainage for all industries.
- Extraction of water from river and lake.
- Pumping surface water, drainage water and flood water

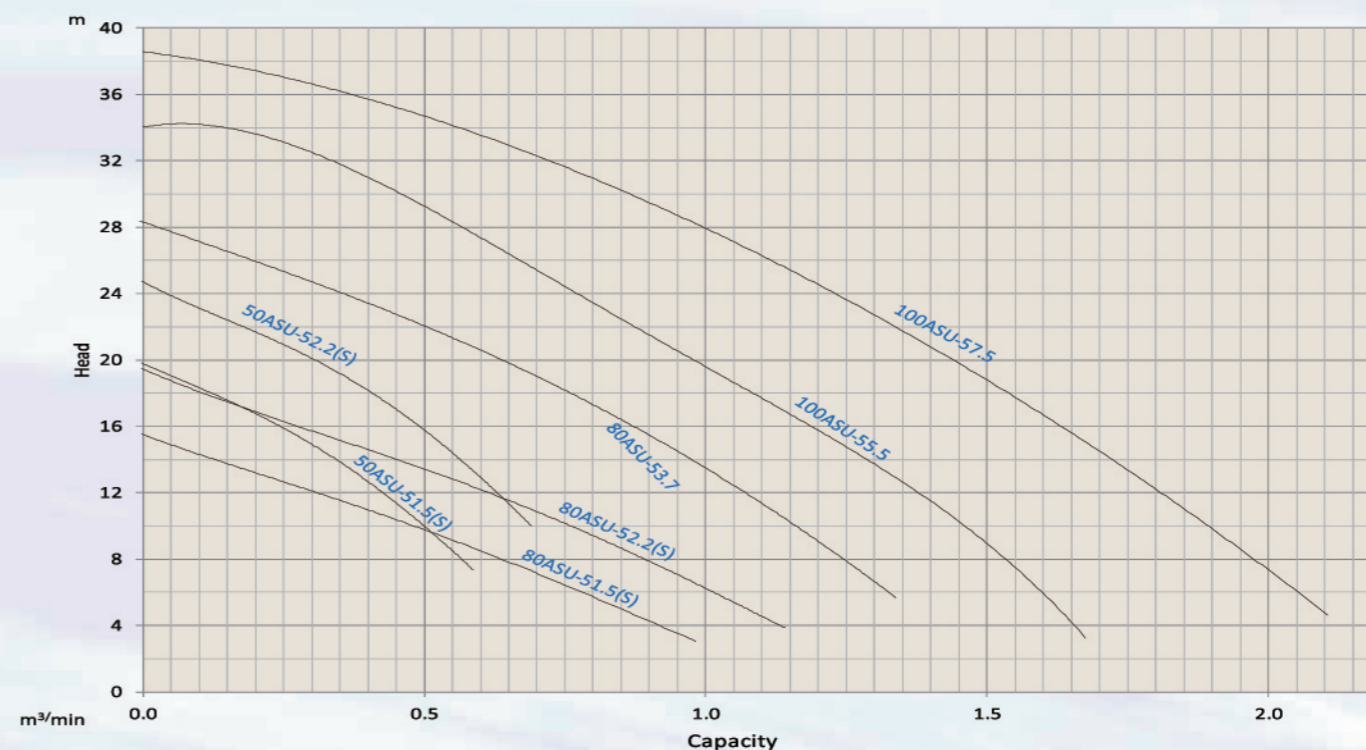
FEATURES

- Entire cast iron structure and compact design.
- Equipped with AutoCut, silicon carbide double mechanical seals, epoxy cable base treatment.
- Compatible with guide rail system.
- High head and high efficiency suitable for a wide range of applications.

SPECIFICATION

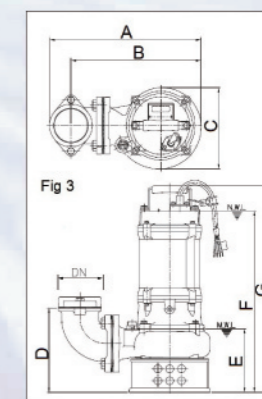
Pumping liquid	Disc diameter(mm)	50 · 80 · 100	
	Liquid temp	0~40°C	
	Liquid nature	Waste water and sewage	
	Max. depth	30M	
Pump Structure	Impeller	Semi-open	
	Mech. seal	Double mechanical seals	
	Bearing	Ball type bearing	
	Upper cover	FC200	
	Impeller	FC200	
	Casing	FC200	
Motor	Mech. seal	SIC/SIC	
	Type	Dry type	
	Insulation	B class (≤2.2kW) F class (≥3.7kW)	
	Frequency · Pole	50Hz · 2P	
	Protector	Auto-cut	
	Material	Frame	FC200
		Main shaft	SUS420J2 (≥5.5kW) SUS403 (≤3.7kW)
Cable		VCT	
Optional	Float switch (≤2.2kW) Water detector Auto setter		

SELECTION CHART

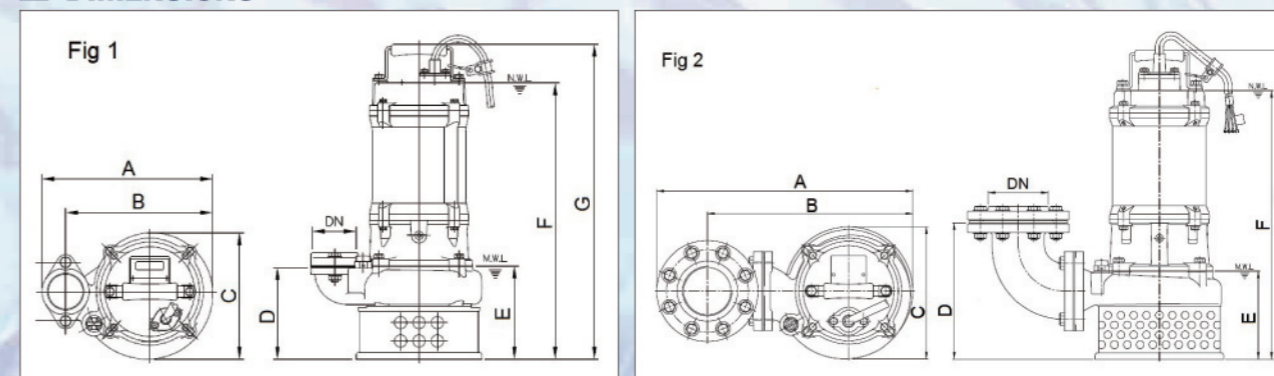


PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg	
2	Semi-Open	50	1.5	1	Capacitor	50ASU-51.5S	0.4	12.5	20	36	
				3	Direct	50ASU-51.5	0.4	12.5	20	32	
			2.2	1	Capacitor	50ASU-52.2S	0.4	18	20	38	
				3	Direct	50ASU-52.2	0.4	18	20	35	
			80	1.5	1	Capacitor	80ASU-51.5S	0.6	8	20	42
					3	Direct	80ASU-51.5	0.6	8	20	37
		2.2		1	Capacitor	80ASU-52.2S	0.6	12	20	44	
				3	Direct	80ASU-52.2	0.6	12	20	40	
		3.7		3	Direct	80ASU-53.7	0.6	20.5	20	49	
				5.5	1	Direct	100ASU-55.5	0.8	23	20	96
		100	7.5	3	Direct	100ASU-57.5	1	27	20	102	



DIMENSIONS



MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50ASU-51.5S	1	PS 2	279	241	206	150	150	502	565	8000
50ASU-51.5	1	PS 2	279	241	206	150	150	451	514	8000
50ASU-52.2S	1	PS 2	279	241	206	150	150	535	598	8000
50ASU-52.2	1	PS 2	279	241	206	150	150	451	514	8000
80ASU-51.5S	3	PS 3	385	333	207	214	160	512	575	8000
80ASU-51.5	3	PS 3	385	333	207	214	160	461	524	8000
80ASU-52.2S	3	PS 3	385	333	207	214	160	545	608	8000
80ASU-52.2	3	PS 3	385	333	207	214	160	461	524	8000
80ASU-53.7	2	PT 3	473	381	242	255	176	510	578	8000
100ASU-55.5	2	PT 4	597	491	307	295	210	620	723	10000
100ASU-57.5	2	PT 4	597	491	307	295	210	620	723	10000

ABO (80mm~200mm)



APPLICATIONS

- Drainage of sewage with solid in the city building
- Miscellaneous drainage and kitchen drainage
- Sewage management, accumulated water, septic tank, livestock farm
- Dewatering of waste water from the attenuation tank purifying tank and sewage tank in water treatment plant
- Drainage of other sewage with solid

FEATURES

- International standard design: VCT cable, autcut, dry motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Superior abrasion resistant mechanical seals made of silicon carbide to ensure the best seal effect.
- Oil seal mounted outside of seal chamber prevents solids build-up around seal surface.
- Compatible with Guide Rail System, which allows convenient remote installation and replacement of the pump without the need to enter the pit.

AUTO CUT

Equipped with an automatically reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

MTP-Motor Thermal Protector

A Motor Thermal Protector is embedded in the windings of the motor. The MTP will transmit a signal to a control panel when windings temperature reaches preset threshold.

IMPELLER

- * ABO, ABOC Semi open impeller enable cutting of delicate materials to prevent clogging.
- * ABOG Enclosed channel non clog impeller, allows large passage preventing clogging and allows effective drainage / dewatering for higher head applications with solids laden media.

ABOC

- * ABOC equipped with a 2 pole motor, heat treated of bottom casing cover and impeller.
- * Cutter with tungsten cutting foreign particles effectively and preventing clog by solid media which allow larger solid passage.

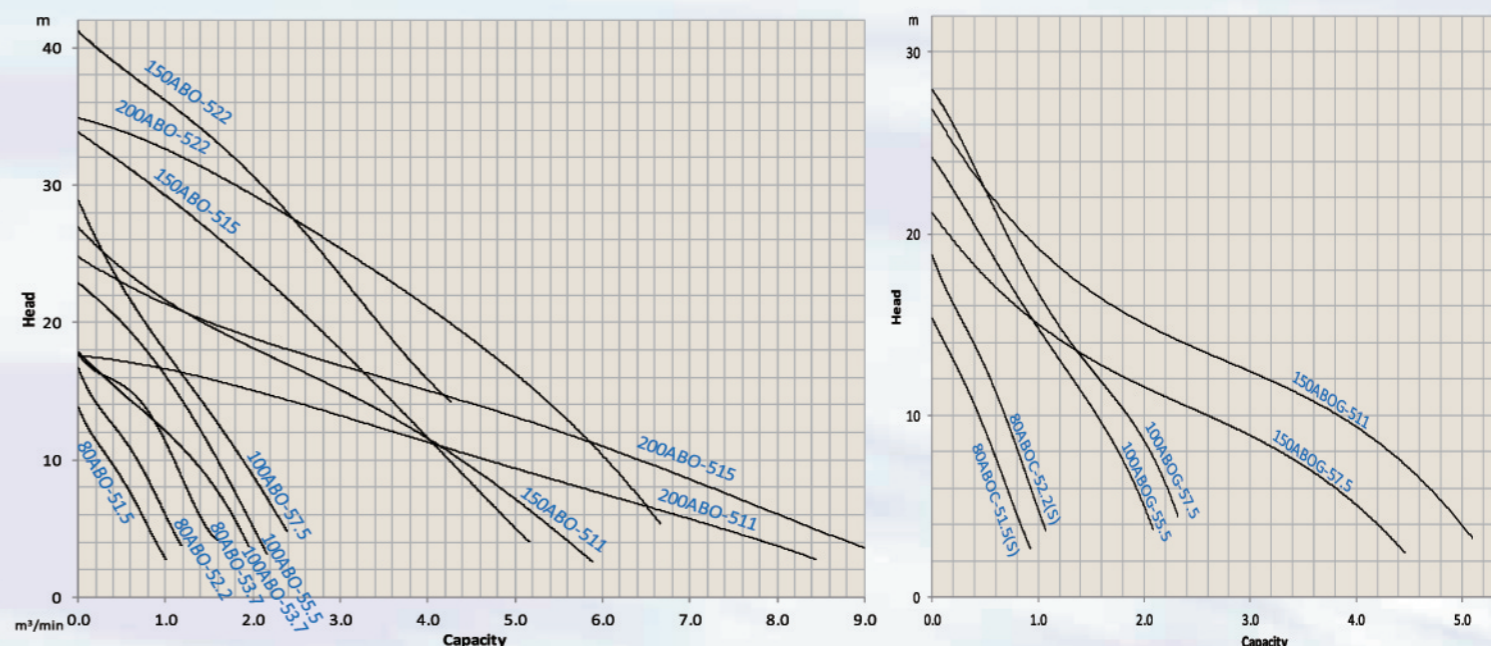


AGITATOR

ABOG Equipped with a ductile iron agitator create powerful turbulence to carry away slurry.



SELECTION CHART



PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg						
4	Semi-Open	80	1.5	3	Direct	80ABO-51.5	0.5	8	50	52						
			2.2	3	Direct	80ABO-52.2	0.6	10	50	70						
			3.7	3	Direct	80ABO-53.7	0.6	14.5	50	79						
		100	3.7	3	Direct	100ABO-53.7	1	11.5	50	82						
			5.5	3	Direct	100ABO-55.5	1	16	40	139						
			7.5	3	Direct	100ABO-57.5	1	18	40	153						
	Enclosed channel Non-clog	100	7.5	3	Direct	100ABOG-57.5	1	18	26	163						
			7.5	3	Direct	150ABO-57.5	2.5	11	70	221						
			7.5	3	Direct	150ABOG-57.5	2.5	10.5	54	222						
		150	11	3	Y-Δ	150ABO-511	2.5	15.5	70	260						
			11	3	Y-Δ	150ABOG-511	2.5	14.5	54	262						
			15	3	Y-Δ	150ABO-515	2.5	20.5	76	180						
200	22	3	Y-Δ	150ABO-522	2.5	27.5	76	232								
	11	3	Y-Δ	200ABO-511	4.5	10	75	270								
	15	3	Y-Δ	200ABO-515	4.5	14	75	285								
2	Semi-Open with cutter	80	1.5	1	Capacitor	80ABOC-51.5S	0.6	7.5	63	42						
			2.2	3	Direct	80ABOC-51.5	0.6	7.5	63	38						
			2.2	1	Capacitor	80ABOC-52.2S	0.6	11	63	45						
										3	Direct	80ABOC-52.2	0.6	11	63	40

SPECIFICATION

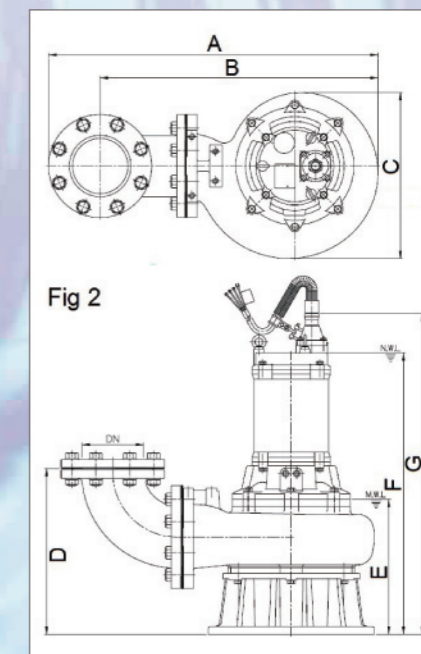
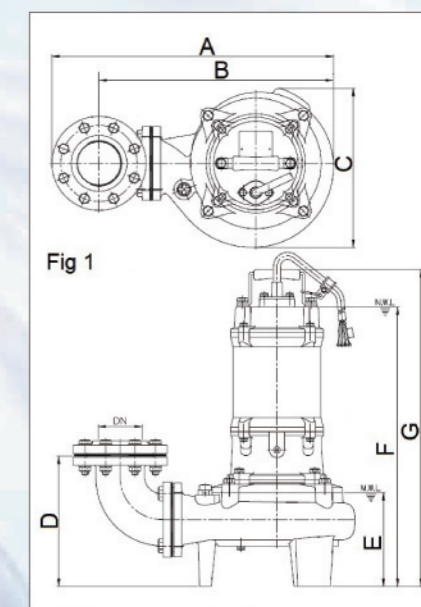
Type	ABO	ABOC	ABO	ABOG	
Disc.diameter(mm)	80 · 100		100 · 150 · 200		
Liquid temp	0~40°C				
Liquid nature	Waste water and sewage		Industrial waste water and sewage		
Max.depth	30M				
Pump Structure	Impeller	Semi-open	Semi-open	Enclosed	
	Mech. seal	Double mechanical seals			
	Bearing	Ball type bearing			
	Upper cover	FC200			
	Pump Material	Impeller	FC200	Heat Treated FC200	FC200
		Cutter	N.A.	Tungsten Blade	N.A.
Agitator		N.A.	N.A.	N.A.	
Casing		FC200			
Mech. seal	SIC/SIC				
Motor	Type	Dry type			
	Insulation	B class (F Class ≥ 3.7kW)			
	Frequency, Pole	50Hz · 2P	50Hz · 4P	50Hz · 4P	
	Protector	Auto-cut(≤7.5kW), Motor thermal protector(≥ 11kW)			
	Motor Material	Frame	FC200		
		Main Shaft	SUS420J2	SUS403	SUS420J2
Cable		VCT / HVCT (≥7.5kW)			
Optional	Water detector(except 150ABO-511, 200ABO-511, 200ABO-515 are standard) Float switch (ABO ≤ 1.5kW and ABOC)				

WD WATER DETECTOR

- * Pumps when equipped with this device in the mechanical seal chamber to detect any water intrusion or infiltration.
- * The device will send a warning signal to the control panel to prevent motor failure induced by water ingress and save maintenance cost.

DIMENSIONS

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
80ABO-51.5	1	PS 3	472	418	290	221	182	504	567	8000
80ABO-52.2	1	PT 3	553	461	313	256	184	550	623	8000
80ABO-53.7	1	PT 3	553	461	313	256	184	570	643	8000
100ABO-53.7	1	PT 4	571	466	313	256	184	570	643	8000
100ABO-55.5	1	PT 4	687	581	405	376	310	795	795	8000
100ABOG-55.5	1	100	687	581	405	376	310	691	795	10000
100ABO-57.5	1	PT 4	687	581	405	377	311	707	816	10000
100ABOG-57.5	1	100	687	582	405	377	311	707	816	10000
150ABO-57.5	2	150	888	748	449	493	365	762	870	10000
150ABOG-57.5	2	150	888	748	449	493	365	762	870	10000
150ABO-511	2	150	895	755	477	450	367	885	988	10000
150ABOG-511	2	150	895	755	477	450	367	885	988	10000
150ABO-515	2	150	806	666	455	385	329	788	938	10000
150ABO-522	2	150	850	710	497	398	332	871	1021	10000
200ABO-511	2	200	1045	880	501	483	372	890	994	10000
200ABO-515	2	200	1045	880	501	483	372	890	994	10000
200ABO-522	2	200	896	731	479	411	285	848	998	10000
80ABOC-51.5S	2	80	413	358	260	215	160	462	525	8000
80ABOC-51.5	2	80	413	358	260	215	160	462	525	8000
80ABOC-52.2S	2	80	413	358	260	215	160	462	525	8000
80ABOC-52.2	2	80	413	358	260	215	160	462	525	8000



ABO (250mm~400mm)

SPECIAL SPECIFICATION

Optional Material	• Stainless steel impeller
Optional Devices/Accessories	• Bearing Thermal Detector • Auto Setter

SPECIFICATION

Disc diameter(mm)	250~400	
Liquid temp	0~40°C	
Liquid nature	Aquaculture water • Industrial water and sewage	
Max. depth	30m	
Structure	Impeller	Enclosed channel non-clog impeller
	Mech. seal	Double Mechanical seal
	Protector	WD water detector
Pump	Upper cover	FC200
	Bearing	Heavy duty bearing
	Impeller	FC200
	Casing	FC200
	Wear ring	Stainless steel
Material	Mech. seal	Silicon carbide
	Type	Dry motor
Motor	Insulation, Pole	F class, 4P/6P
	Frequency	50Hz
	Protector	Motor thermal protector(MTP)
	Frame	FC200
	Main Shaft	SUS420J2
Cable	3PNCT	

Cable base

The copper wires in the cable are exposed and coated with Epoxy resin to prevent water or moisture intrusion via damaged cable or wires. The reinforcement guarantees 100% water- proof and moisture-free.

Motor over-heat protector

The built-in MTP (Motor Thermal Protector) will detect abnormal rise of temperature in motor winding and cut off power supply automatically when the excessive heat reaches preset threshold to protect the motor from overheating.

Cooling jacket

Cooling Jacket allows the flow of water between motor frame and outer cover to form a circulating cooling system, which enables the pump to drain water to a lower level, increasing the operational range of the pump. (Pumps over 37kW or 50HP are equipped with Cooling Jacket as a standard.)

Bearing Thermal detector (optional)

The optional Bearing Thermal Detector (BTD) is attached to the bearing for detection of excessive heat generated during its operation. When abnormal temperature is detected, the device will automatically cut off the power supply to prolong the bearing's life.

WD Water detector (standard)

The device is installed in the Mechanical Seal Chamber to detect water ingress. It will send a signal to the control panel to shut down the pump to avoid motor burning out whenever a water intrusion is detected.

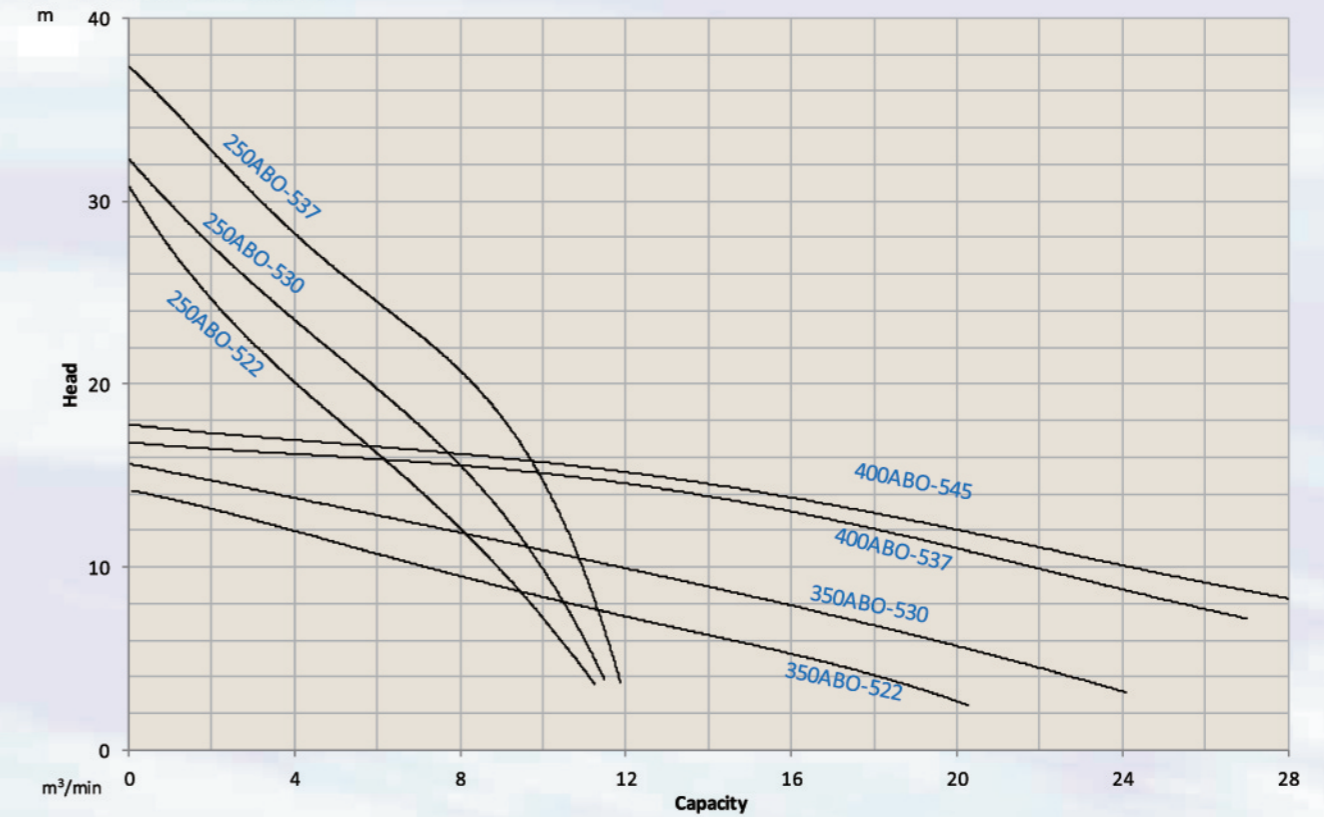
High quality mechanical seals

The mechanical seals are made of silicon carbide, which make them more capable of resisting and withstanding the abrasion and corrosion, and substantially extend the life expectancy of the pump.

Non-clog impeller

Non-clog impeller design, with high efficiency, excellent performance, and large solid passage. The best solution for drainage of effluent.

SELECTION CHART

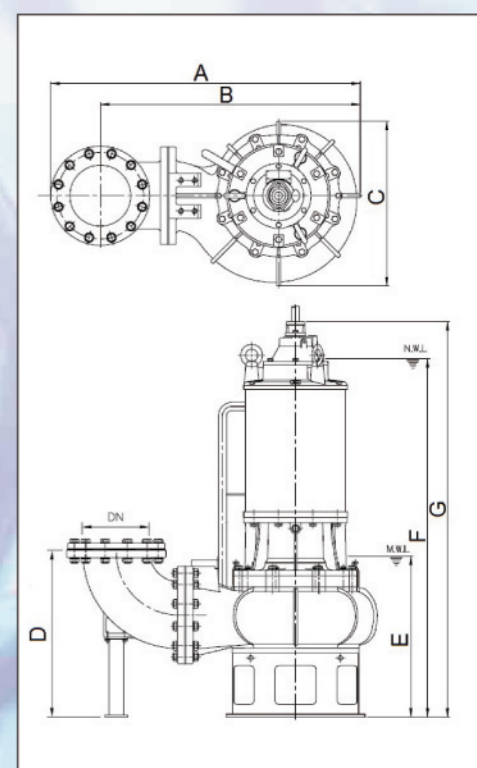


PERFORMANCE SPECIFICATION

Hz	Model	Power HP(kW)	Discharge Inch(mm)	Phase ϕ	Pole	Start Method	Head m	Capacity m³/min	Head ft	Capacity GPM	Weight kg(lb)	Solid passage mm
50	250ABO-522	30(22)	10(250)	3	4	Y- Δ	14	7	46	1850	745(1640)	60
	250ABO-530	40(30)	10(250)	3	4	Y- Δ	17	7	56	1850	765(1690)	60
	250ABO-537	50(37)	10(250)	3	4	Y- Δ	22	7	73	1850	770(1700)	60
	350ABO-522	30(22)	14(350)	3	6	Y- Δ	6	14	20	3700	950(2095)	120
	350ABO-530	40(30)	14(350)	3	6	Y- Δ	8.5	14	28	3700	955(2105)	120
	400ABO-537	50(37)	16(400)	3	6	Y- Δ	7.5	20	25	5285	965(2125)	120
	400ABO-545	60(45)	16(400)	3	6	Y- Δ	9	20	30	5285	970(2140)	120

DIMENSIONS

MODEL	DN	A	B	C	D	E	F	G	CABLE LENGTH
250ABO-522	250	1273	1070	676	684	660	NA	1621	10000
250ABO-530	250	1273	1070	676	684	660	NA	1621	10000
250ABO-537	250	1273	1070	676	684	660	NA	1621	10000
350ABO-522	350	1544	1277	813	884	800	NA	1764	10000
350ABO-530	350	1544	1277	813	884	800	NA	1764	10000
400ABO-537	400	1544	1277	813	884	800	NA	1764	10000
400ABO-545	400	1544	1277	813	884	800	NA	1764	10000



AVC



APPLICATIONS

- Drainage of waste water from the attenuation tank, purifying tank and sewage tank in water treatment plant
- Sewage management, accumulated water, septic tank, livestock farm
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Pumping sewage from single and multifamily dwellings.

FEATURES

- International standard design: VCT cable, autcut, dry motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.
- Oil seal mounted outside of seal chamber prevent solids build-up around seal surface.
- Compatible with Guide Rail System, which allows convenient remote installation and replacement of the pump without the need to enter the pit.

CABLE BASE

Epoxy resin sealed cable base to prevent moisture from entering motor.

AUTO CUT

Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

IMPELLER

* Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller.

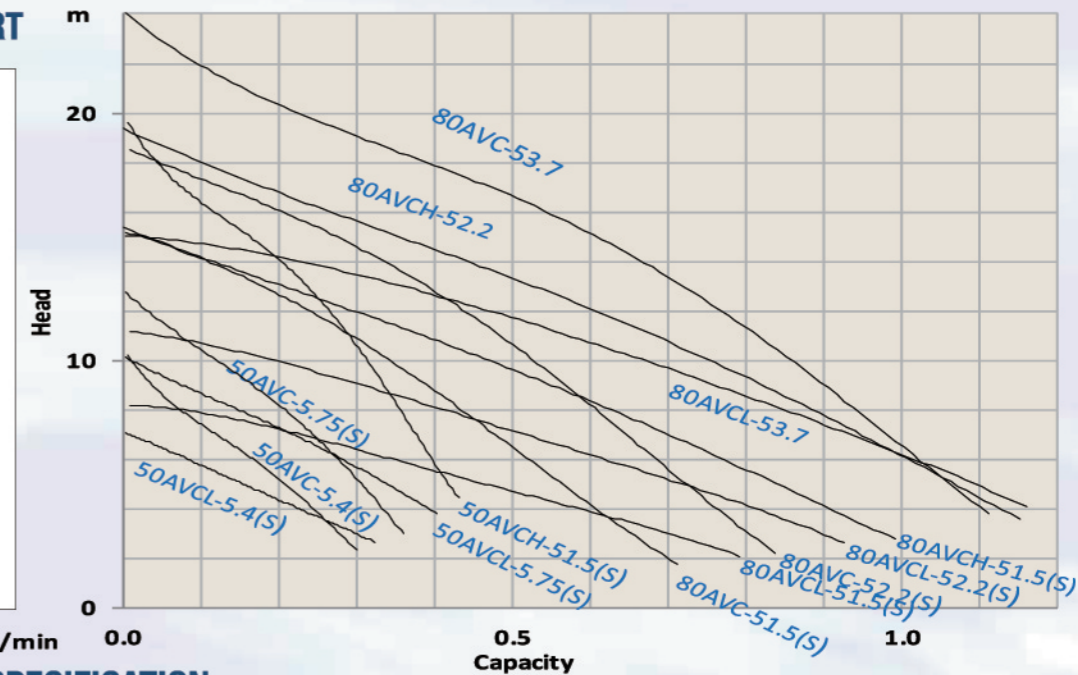
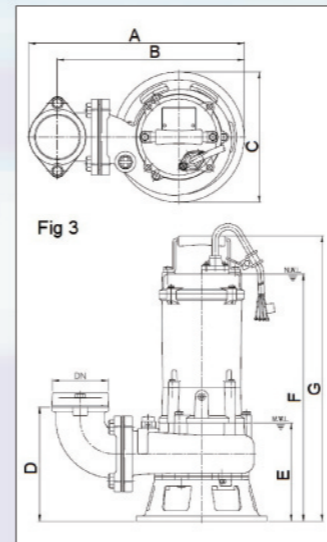
The reversed rotation of 3 phase pumps will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

* Semi open impeller can effectively chop down delicate materials to prevent congestion.

SPECIFICATION

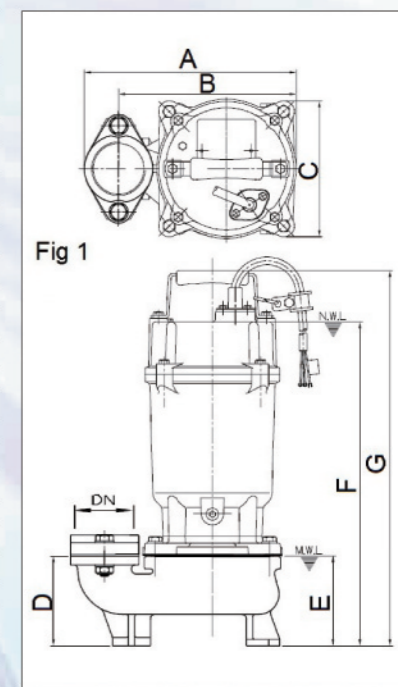
Pumping liquid	Disc diameter(mm)	50 · 80	
	Liquid temp	0~40°C	
	Liquid nature	Waste water and sewage	
	Max. depth	30M	
Pump	Structure	Impeller	Non-Clog
		Mech. seal	Vortex / Semi-Open
	Material	Bearing	Double mechanical seals
		Upper cover	Ball type bearing
		Impeller	FC200
Motor	Casing	FC200	
	Mech. seal	SIC/SIC	
Motor	Type	Dry type	
	Insulation	B class (3.7kW : F Class)	
	Frequency · Pole	50Hz · 2P	
	Protector	Auto-cut	
	Material	Frame	FC200
		Main Shaft	SUS410(0.4kW~0.75kW) / SUS403
		Cable	VCT
Optional		Float switch(≤2.2kW) Water detector(1.5kW~2.2kW) Auto setter	

SELECTION CHART



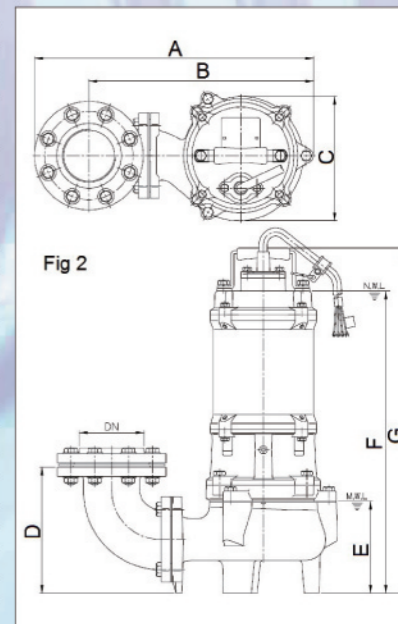
PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Vortex	50	0.4	1	Capacitor	50AVC-5.4S	0.15	6	35	19
				3	Direct	50AVC-5.4	0.15	6	35	18
				1	Capacitor	50AVCL-5.4S	0.22	4	50	20
			3	Direct	50AVCL-5.4	0.22	4	50	19	
			1	Capacitor	50AVC-5.75S	0.2	8	35	20	
			3	Direct	50AVC-5.75	0.2	8	35	19	
		80	0.75	1	Capacitor	50AVCL-5.75S	0.25	6.5	50	22
				3	Direct	50AVCL-5.75	0.25	6.5	50	21
				1	Capacitor	80AVC-51.5S	0.4	8.5	50	40
			3	Direct	80AVC-51.5	0.4	8.5	50	36	
			1	Capacitor	80AVCL-51.5S	0.5	4.5	76	43	
			3	Direct	80AVCL-51.5	0.5	4.5	76	39	
80	2.2	1	Capacitor	80AVC-52.2S	0.4	12.5	50	42		
		3	Direct	80AVC-52.2	0.4	12.5	50	38		
		1	Capacitor	80AVCL-52.2S	0.5	7	76	45		
	3	Direct	80AVCL-52.2	0.5	7	76	41			
	3	Direct	80AVC-53.7	0.5	16.5	32	46			
	3	Direct	80AVCL-53.7	0.6	10.5	76	48			
Semi-Open	50	1.5	1	Capacitor	50AVCH-51.5S	0.2	14	35	33	
			3	Direct	50AVCH-51.5	0.2	14	35	29	
		1	Capacitor	80AVCH-51.5S	0.6	8	35	42		
	3	Direct	80AVCH-51.5	0.6	8	35	38			
	80	2.2	1	Capacitor	80AVCH-52.2	0.6	12	35	40	
			3	Direct	80AVCH-52.2	0.6	12	35	40	



DIMENSIONS

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50AVC-5.4S	1	PS 2	236	198	155	100	100	361	418	5000
50AVC-5.4	1	PS 2	236	198	155	100	100	361	418	5000
50AVC-5.75S	1	PS 2	236	198	155	100	100	361	418	5000
50AVC-5.75	1	PS 2	236	198	155	100	100	361	418	5000
50AVCH-51.5S	1	PS 2	288	250	202	88	100	470	532	8000
50AVCH-51.5	1	PS 2	288	250	202	88	100	415	477	8000
80AVC-51.5S	1	PS 3	379	258	202	204	140	511	575	8000
80AVC-51.5	1	PS 3	379	258	202	204	140	460	524	8000
80AVC-52.2S	1	PS 3	379	258	202	204	140	544	607	8000
80AVC-52.2	1	PS 3	379	258	202	204	140	460	524	8000
80AVC-53.7	2	PT 3	481	389	222	210	145	505	573	8000
80AVCH-51.5S	3	PS 3	413	358	260	215	160	513	576	8000
80AVCH-51.5	3	PS 3	413	358	260	215	160	462	525	8000
80AVCH-52.2	3	PS 3	413	358	260	215	160	462	525	8000
50AVCL-5.4S	1	PS 2	306	268	163	150	130	391	448	5000
50AVCL-5.4	1	PS 2	306	268	163	150	130	391	448	5000
50AVCL-5.75S	1	PS 2	306	268	163	150	130	391	448	5000
50AVCL-5.75	1	PS 2	306	268	163	150	130	391	448	5000
80AVCL-51.5S	1	PS 3	443	389	255	232	235	635	700	8000
80AVCL-51.5	1	PS 3	443	389	255	232	235	557	622	8000
80AVCL-52.2S	1	PS 3	538	445	289	267	235	620	695	8000
80AVCL-52.2	1	PS 3	538	445	289	267	235	620	695	8000
80AVCL-53.7	2	PT 3	481	389	235	246	197	557	625	8000



ACU



APPLICATIONS

- Drainage of waste water from the attenuation tank, purifying tank and sewage tank in water treatment plant
- Sewage management, accumulated water, septic tank, livestock farm
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Pumping sewage from single and multifamily dwellings.

FEATURES

- International standard design: VCT cable, autocut, dry motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Superior abrasion resistant mechanical seal made of silicon carbide to ensure the best seal effect.
- Oil seal mounted outside seal chamber solids build-up around seal surface.
- Compatible with Guide Rail System, which allows convenient remote installation and replacement of the pump without the need to enter the pit.

CABLE BASE

Epoxy resin sealed cable base to prevent moisture from entering into motor.

AUTO CUT

Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

IMPELLER

Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller.

The reversed rotation of 3 phase pumps will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

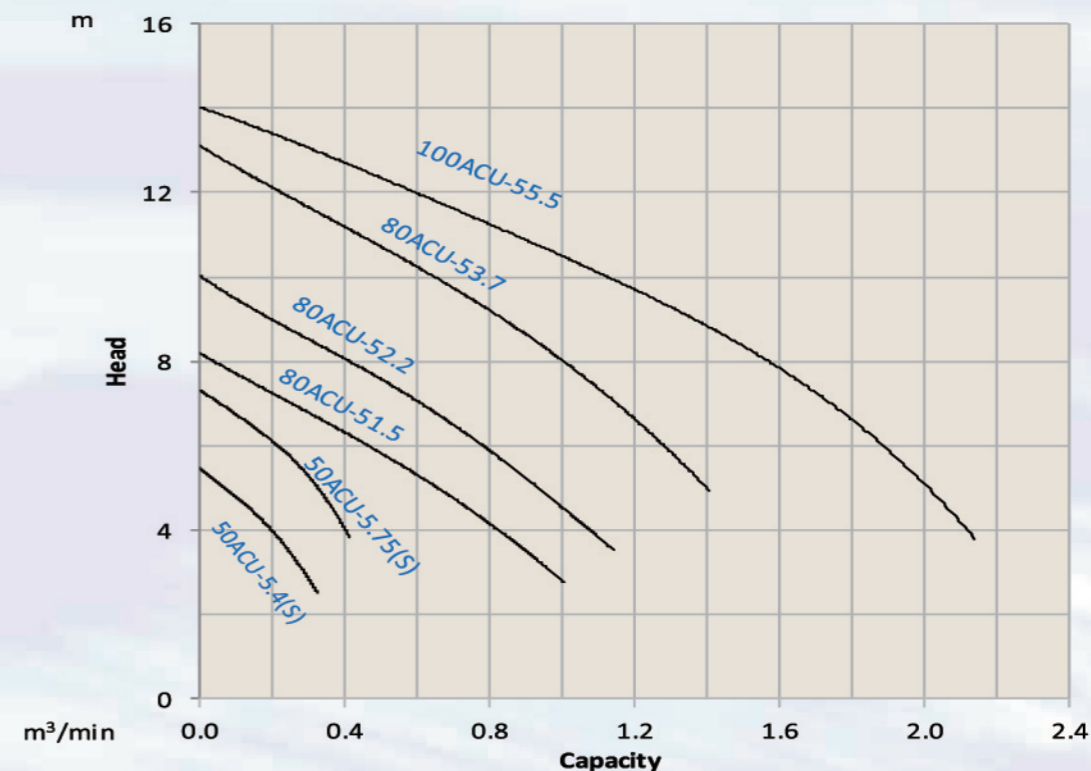
MOTOR

The motors are produced under the strictest quality control procedures, the stator winding is impregnated with varnish resin and oven heated for up to 8 hours.

SPECIFICATION

Disc diameter(mm)		50 · 80 · 100	
Pumping liquid	Liquid temp	0~40°C	
	Liquid nature	Waste water and sewage	
	Max. depth	30M	
Pump	Structure	Impeller: Semi-open/Vortex Mech. seal: Double mechanical seals Bearing: Ball type bearing	
	Material	Upper cover: FC200	
		Impeller: FC200	
		Casing: FC200	
		Mech. seal: SIC/SIC	
Motor	Type	Dry type	
	Insulation	B class (≥3.7kW : F Class)	
	Frequency Pole	50Hz · 4P	
	Protector	Auto-cut	
	Material	Frame	FC200
		Main Shaft	SUS420J2 SUS403 (0.4 ~ 0.75kW)
Cable		VCT / HVCT (5.5kW)	
Optional		Float switch (≤1.5kW) Water detector (≥1.5kW) Auto setter	

SELECTION CHART



PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
4	Vortex	50	0.4	1	Capacitor	50ACU-5.4S	0.25	3.5	50	30
				3	Direct	50ACU-5.4	0.25	3.5	50	28
			1	Capacitor	50ACU-5.75S	0.3	5	50	31	
		3	Direct	50ACU-5.75	0.3	5	50	29		
		80	1.5	3	Direct	80ACU-51.5	0.6	5	76	52
			2.2	3	Direct	80ACU-52.2	0.6	7	76	70
	3.7		3	Direct	80ACU-53.7	0.6	10	76	75	
	Semi-open	100	5.5	3	Direct	100ACU-55.5	1	10.5	25	139

DIMENSIONS

Fig 1

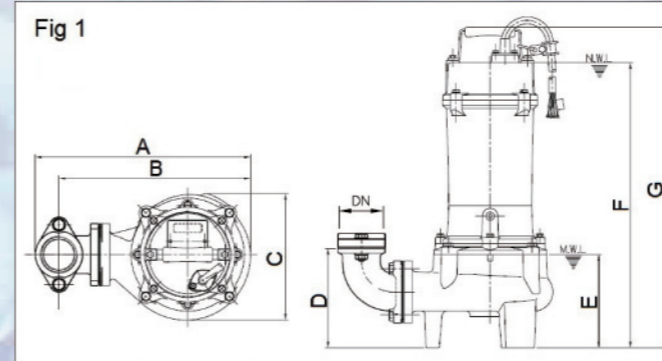
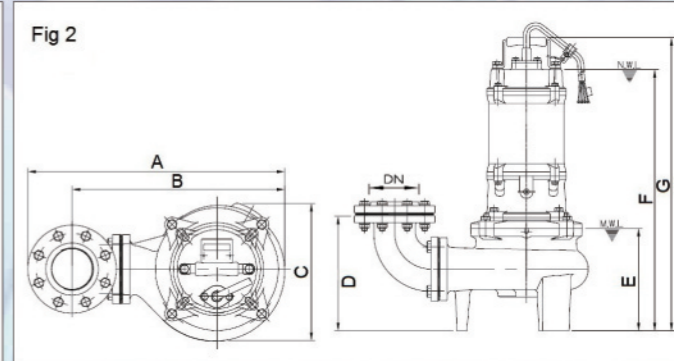


Fig 2



MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50ACU-5.4S	1	PS 2	346	308	204	160	150	459	516	5000
50ACU-5.4	1	PS 2	346	308	204	160	150	459	516	5000
50ACU-5.75S	1	PS 2	346	308	204	160	150	459	516	5000
50ACU-5.75	1	PS 2	346	308	204	160	150	459	516	5000
80ACU-51.5	1	PS 3	443	389	255	232	235	557	622	8000
80ACU-52.2	2	PT 3	538	445	289	267	235	600	675	8000
80ACU-53.7	2	PT 3	538	445	289	267	235	620	695	8000
100ACU-55.5	2	PT 4	687	581	405	376	310	691	795	10000

UNIT:mm

AGO



APPLICATIONS

- Suitable for pressure sewage system.
- Transferring wastewater of commercial buildings, industrial plants, wastewater sampling, small hospitals.
- To transfer various wastewater and sewage.
- Drainage of wastewater from individual residences, apartment buildings, recreational developments.

FEATURES

- Vortex impeller designed to prevent congestion by fragmented articles.
- Durable heavy duty finned cast iron construction.
- Radial cutter and cutter ring : The impeller can prevent from clogging when grinding the objects.
- Standard accessories include : epoxy resin cable base, dry motor, double mechanical seals, autocut protection, double ball bearings supported shaft and rotor.
- Optional: WD water detector protects the motor from sewage contamination, to provide you with exceptionally long pump service.



CABLE BASE

Epoxy resin sealed cable base to prevent moisture from entering into motor.

AUTO CUT

Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

IMPELLER

Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller. The reversed rotation of 3 phase pumps will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

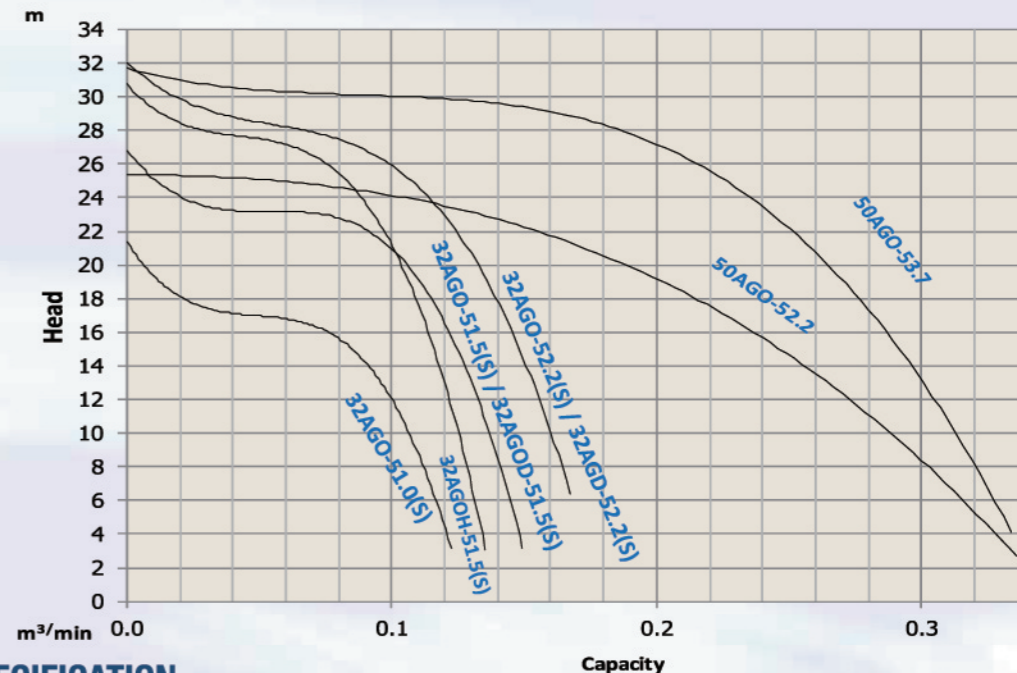
MOTOR

Dry type, high efficiency copper wound motors with F class insulation. The motors are produced under the strictest quality control procedures, the stator winding is impregnated with varnish resin and oven heated for up to 8 hours.

SPECIFICATION

Disc.diameter(mm)		32 · 50	
Pumping liquid	Liquid temp	0~40°C	
	Liquid nature	Residential waste water · Sewage	
Pump	Structure	Impeller	Semi-open
		Cutting Construction	Grinding
		Mech. seal	Double mechanical seals
	Material	Bearing	Ball type bearing
		Casing	FC200
		Impeller	FC200
		Radial Cutter	SUS440C(55-60 Rockwell C.)
Cutter Ring	SUS440C(55-60 Rockwell C.)		
Mech. seal	Silicon Carbide		
Motor	Type	Dry type	
	Insulation	B class (F class: 3.7kW)	
	Frequency · Pole	50Hz · 2P	
	Protect devices	Auto-cut	
	Material	Frame	FC200
		Main Shaft	SUS403
		Cable	VCT
Optional	Float switch (<3.7kW) Water detector (≥1.5kW) Auto setter		

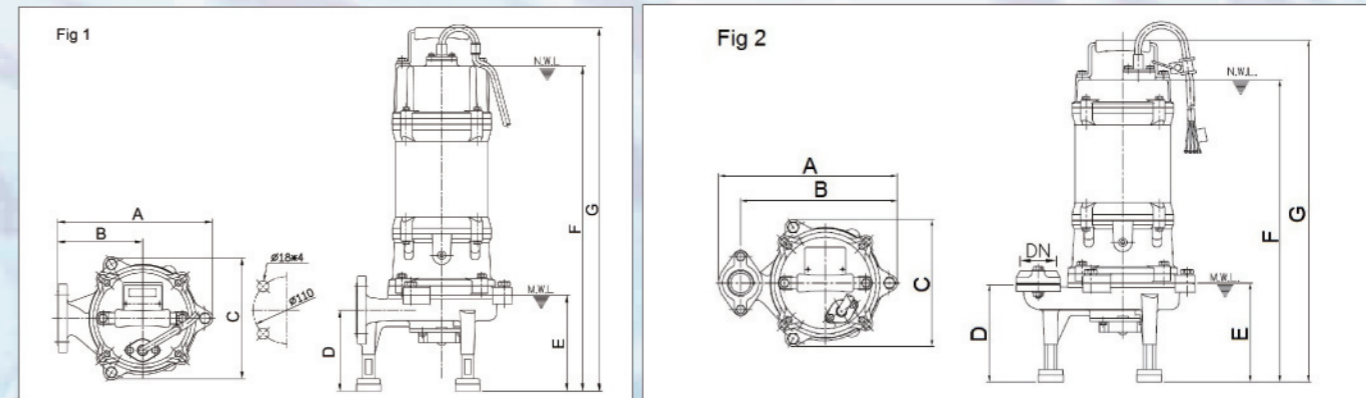
SELECTION CHART



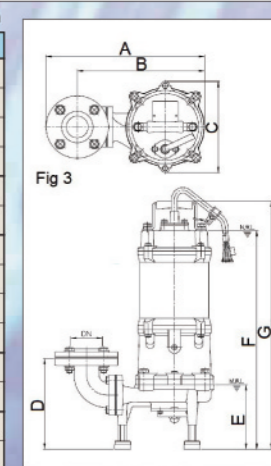
PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Weight kg
2	Semi-Open + Grinder	32	1	1	Capacitor	32AGO-51.0S	0.06	17	28
				3	Direct	32AGO-51.0	0.06	17	25
			1.5	1	Capacitor	32AGO-51.5S	0.06	23	36
				3	Direct	32AGO-51.5	0.06	23	33
				1	Capacitor	32AGOH-51.5S	0.06	26	36
				3	Direct	32AGOH-51.5	0.06	26	32
		2.2	1	Capacitor	32AGOD-51.5S	0.06	23	36	
			3	Direct	32AGOD-51.5	0.06	23	33	
			1	Capacitor	32AGO-52.2S	0.06	28	38	
			3	Direct	32AGO-52.2	0.06	29	35	
			1	Capacitor	32AGOD-52.2S	0.06	28	38	
			3	Direct	32AGOD-52.2	0.06	28	35	
		50	2.2	3	Direct	50AGO-52.2	0.2	19	51
			3.7	3	Direct	50AGO-53.7	0.2	26	53

DIMENSIONS



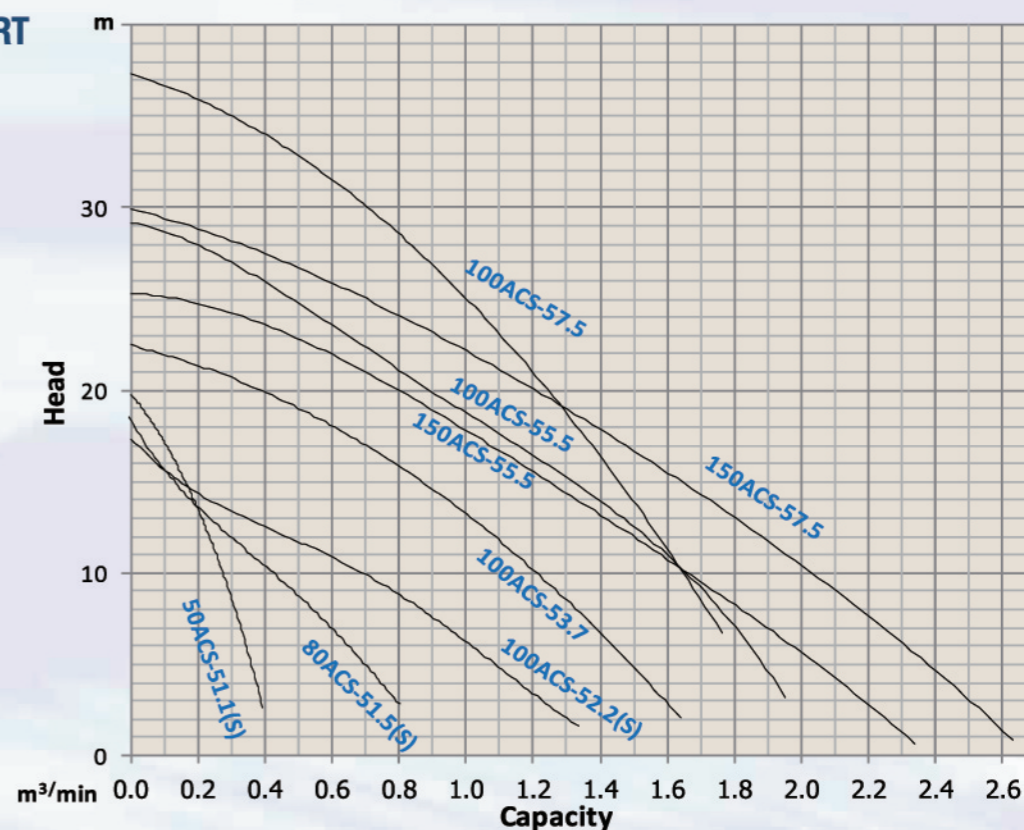
MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
32AGO-51.0S	2	PT 1 1/4	249	214	177	156	160	498	555	8000
32AGO-51.0	2	PT 1 1/4	249	214	177	156	160	473	530	8000
32AGO-51.5S	2	PT 1 1/4	285	250	203	156	160	553	597	8000
32AGO-51.5	2	PT 1 1/4	285	250	203	156	160	483	546	8000
32AGOH-51.5S	2	PT 1 1/4	285	250	203	156	160	553	579	8000
32AGOH-51.5	2	PT 1 1/4	285	250	203	156	160	483	546	8000
32AGOD-51.5S	1	PT 1 1/2	285	250	203	156	160	553	597	8000
32AGOD-51.5	1	PT 1 1/2	285	250	203	156	160	483	546	8000
32AGOD-52.2S	1	PT 1 1/2	255	140	203	133	160	566	630	8000
32AGOD-52.2	1	PT 1 1/2	255	140	203	133	160	483	546	8000
32AGO-52.2S	2	PT 1 1/4	285	250	203	156	160	566	630	8000
32AGO-52.2	2	PT 1 1/4	285	250	203	156	160	483	546	8000
50AGO-52.2	3	PT 2	393	316	226	226	180	543	616	8000
50AGO-53.7	3	PT 2	393	316	226	226	180	543	616	8000



ACS



SELECTION CHART



APPLICATIONS

- Aquaculture water supply and drainage.
- Water supply for agricultural irrigation systems and underground water pumping.
- Landscape, water feature and horticulture irrigation.
- Extraction of water from rivers, lakes and reservoirs.

FEATURES

- Standard design featuring : VCT cable and dry motor equipped with thermal Auto Cut prevent motor from over heating. Abrasion resistant double mechanical seals.
- Superior design of hydro motor cooling system ensures the stable performance and extends the life expectancy of the device.

PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase ϕ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg	
2	Enclosed	50	1.1	1	Capacitor	50ACS-51.1S	0.2	13.5	3.5	28	
				3	Direct	50ACS-51.1	0.2	13.5	3.5	24	
		80	1.5	1	Capacitor	80ACS-51.5S	0.5	10	10	42	
				3	Direct	80ACS-51.5	0.5	10	10	35	
		100	2.2	3.7	1	Capacitor	100ACS-52.2S	0.8	9.5	10	43
					3	Direct	100ACS-52.2	0.8	9.5	10	39
			3	5.5	3	Direct	100ACS-53.7	1	13	10	45
					3	Direct	100ACS-55.5	1	19	10	75
			3	7.5	3	Direct	100ACS-57.5	1	25	10	80
					3	Direct	150ACS-55.5	1.5	12	10	78
		3	7.5	3	Direct	150ACS-57.5	1.5	17	10	81	

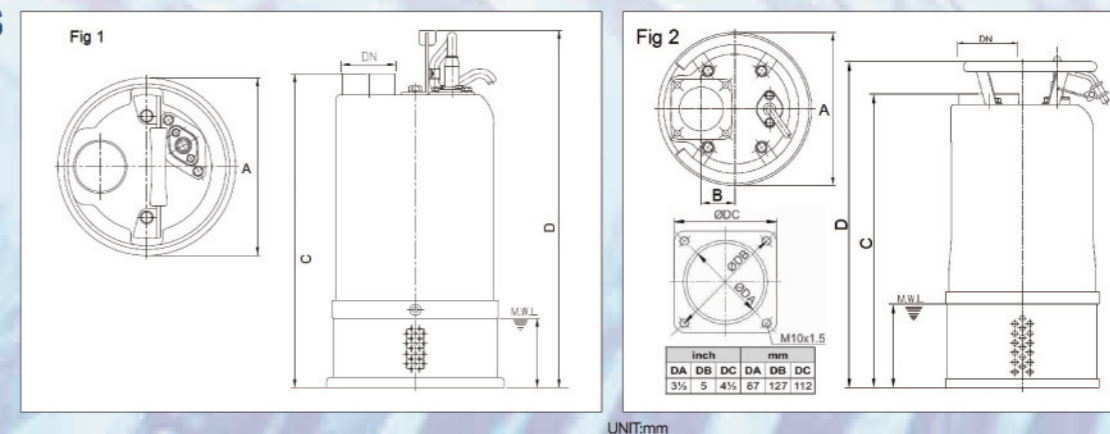
SPECIFICATION

Pumping liquid	Disc.diameter(mm)	50 · 80 · 100 · 150
	Liquid temp	0~40°C
	Liquid nature	Agriculture irrigation, Other drainage
Pump	Max.depth	30M
	Structure	Enclosed channel
	Mech. seal	Double mechanical seals
	Bearing	Ball type bearing
	Material	
	Out cover	SUS304
	Upper cover	FC200
	Impeller	Bronze ($\leq 1.1kW$), Chrome steel ($\geq 1.5kW$)
	Casing	FC200
	Mech. seal	SIC/SIC
Motor	Type	Dry type
	Insulation	B class (F class $\geq 3.7kW$)
	Frequency · Pole	50Hz · 2P
	Protector	Auto-cut
	Material	
	Frame	SUS304
Main Shaft	SUS403	
Cable	VCT / HVCT ($\geq 5.5kW$)	

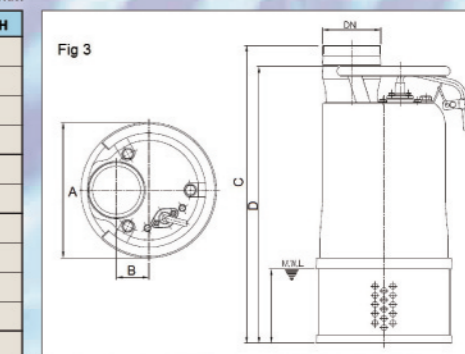
OPTIONAL OUTLET ACCESSORIES



DIMENSIONS



MODEL	Fig	DN	A	B	C	D	CABLE LENGTH
50ACS-51.1S	1	Female PS 2	210	210	370	482	8000
50ACS-51.1	1	Female PS 2	210	210	429	423	8000
80ACS-51.5S	3	Male PF 3	235	56	548	511	8000
80ACS-51.5	3	Male PF 3	235	56	503	466	8000
100ACS-52.2S	3	Male PF 4	235	56	593	556	8000
100ACS-52.2	3	Male PF 4	235	56	518	481	8000
100ACS-53.7	3	Male PF 4	235	56	548	511	8000
100ACS-55.5	2	100	286	63	550	610	10000
100ACS-57.5	2	100	286	63	550	610	10000
150ACS-55.5	2	150	286	63	550	610	10000
150ACS-57.5	2	150	286	63	550	610	10000



APLS



APVS



APPLICATIONS

- Waste drainage for industries.
- Sanitary sewer, single and multifamilies drainage.
- Water drainage for chemical, pharmaceutical and metal processing factory.

FEATURES

- This series is suitable for mildly corrosive applications.
- Reliable structure design, dry motor, double mechanical seals, equipped Auto Cut protector, stainless steel pump casing and motor frame, acid-resistant Silicon carbide seals.

VITON O-RING

Viton O-rings are utilized in the joints of the pump to provide better protection against corrosive substance and aggressive media.

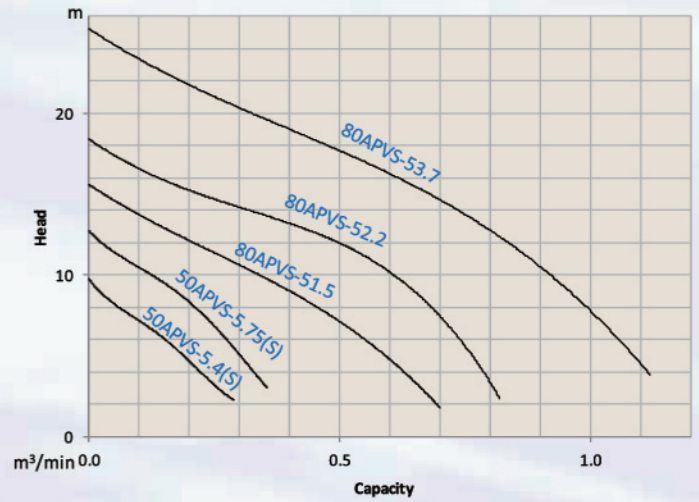
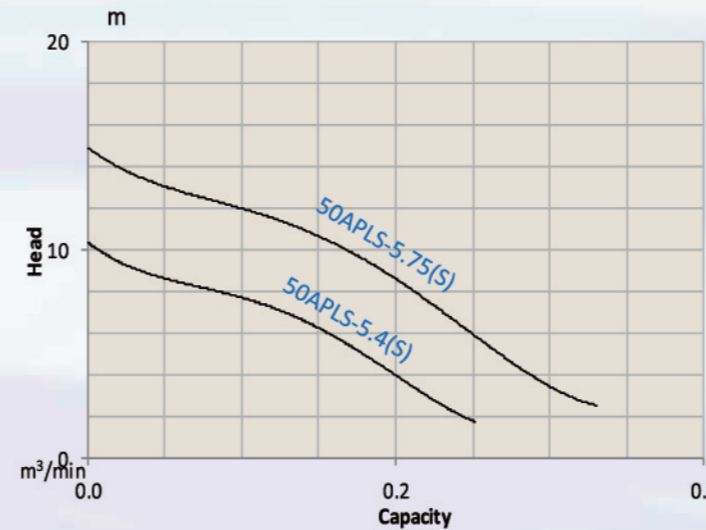
INVESTMENT CASTING

Advanced Investment Casting (Lost-Wax Casting) is employed for the manufacture of the stainless steel components of the pumps to effectively reduce the sand hole created by conventional casting method and also give the smooth texture and pleasing appearance.

SPECIFICATION

APPLICATION	Disc. Diameter(mm)	50 · 80
	Liquid temp	0~40°C
	Liquid nature	Acid / Alkaline / Corrosive Liquid between PH 5~11
	Max. depth	30M
STRUCTURE	Impeller	Semi-open
	Mech. seal	Double mechanical seals
	Bearing	Ball type bearing
MATERIAL	Upper cover	SCS14
	Frame	SUS316
	Impeller	SCS14
	Casing	SCS14
	Mech. seal	SIC/SIC
	Main shaft	SUS316
MOTOR	Cable	VCT
	Type	Dry & High-Efficiency Motor
	Insulation	B Class (F class : 3.7kW)
	Frequency · Pole	50Hz · 2P
	Protector	Auto-cut (Overheat protector: 0.4kW·1P)
Optional	Float switch (≤0.75kW) Water detector (≥1.5kW) Auto setter	

SELECTION CHARTS



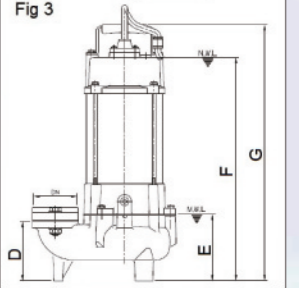
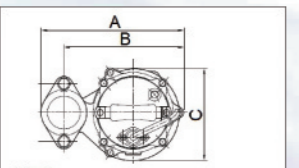
PERFORMANCE SPECIFICATION

[Type APLS]

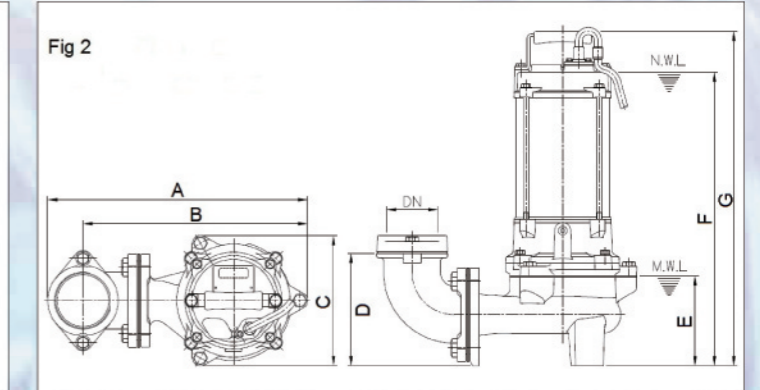
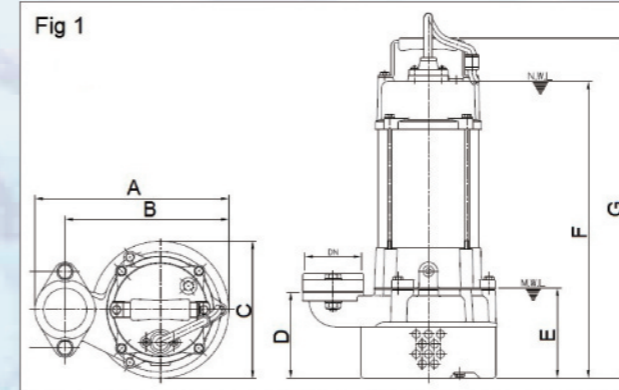
Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Total Head m	Solid passage mm	Weight kg
2	Semi-Open	50	0.4	1	Capacitor	50APLS-5.4S	0.12	7	10	15
				3	Direct	50APLS-5.4	0.12	7	10	14
			0.75	1	Capacitor	50APLS-5.75S	0.17	10	10	17
				3	Direct	50APLS-5.75	0.17	10	10	16

[Type APVS]

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Total Head m	Solid passage mm	Weight kg
2	Semi-Open	50	0.4	1	Capacitor	50APVS-5.4S	0.15	6	35	15
				3	Direct	50APVS-5.4	0.15	6	35	14
			0.75	1	Capacitor	50APVS-5.75S	0.2	8	35	16
				3	Direct	50APVS-5.75	0.2	8	35	15
		80	1.5	3	Direct	80APVS-51.5	0.4	8.5	50	26.5
			2.2	3	Direct	80APVS-52.2	0.4	13	50	29
			3.7	3	Direct	80APVS-53.7	0.5	17.5	50	40



DIMENSIONS

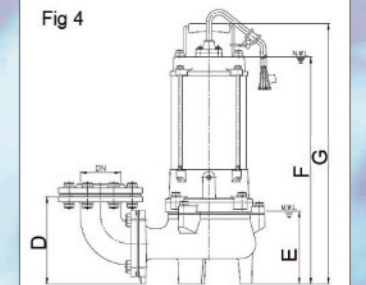
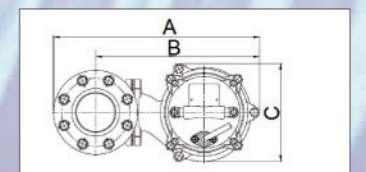


[Type APLS]

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APLS-5.4S	1	PS 2	245	207	174	109	115	385	439	5000
50APLS-5.4	1	PS 2	245	207	174	109	115	385	439	5000
50APLS-5.75S	1	PS 2	245	207	174	109	115	385	439	5000
50APLS-5.75	1	PS 2	245	207	174	109	115	385	439	5000

[Type APVS]

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APVS-5.4S	3	PS 2	237	191	154	99	109	372	427	5000
50APVS-5.4	3	PS 2	237	191	154	99	109	372	427	5000
50APVS-5.75S	3	PS 2	237	191	154	99	109	372	427	5000
50APVS-5.75	3	PS 2	237	191	154	99	109	372	427	5000
80APVS-51.5	2	PF 3	402	348	202	174	139	454	517	8000
80APVS-52.2	2	PF 3	402	348	202	174	139	454	517	8000
80APVS-53.7	4	PT 3	476	384	223	203	143	498	561	8000



ADS



APPLICATIONS

- Dewatering of fluid which contains solid sediments.
- Civil engineering, dewatering of tunnel and ground works, also for storm sewers.
- Ease of mobility for use by contractors, installers and service industries.

FEATURES

- Compact, strong and easy handling for all civil engineering application conditions.
- Double outer casings and hydro motor cooling system make it suitable for low water level operating.
- Fully waterproof IP68 stainless steel structure, combined with a high grade silicon carbide double mechanical seals.

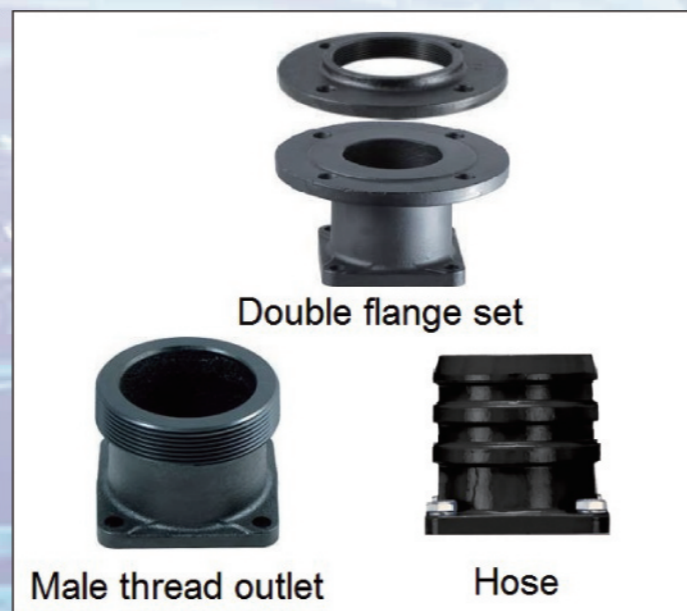
HiCR IMPELLER

The extremely sturdy HiCR impeller can reach the hardness of 55-60 HRC and withstand highly abrasive applications.

SPECIFICATION

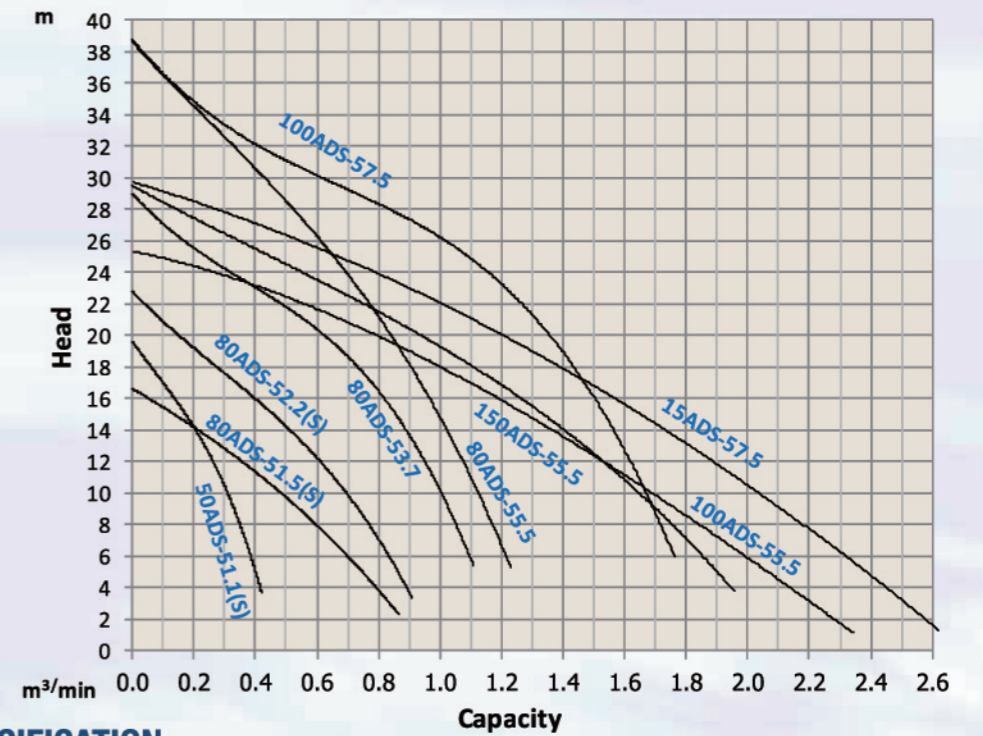
Disc diameter(mm)	50 · 80	80 · 100 · 150	
Power	1.1~3.7kW	5.5~7.5kW	
Pumping liquid	Liquid temp	0~40°C	
	Liquid nature	Waste water and sewage Sandy · Waste water	
Pump	Max. depth	30M	
	Structure	Impeller	Semi-open(50ADS) Enclosed Semi-open (80ADS-55.5)
		Mech. seal	Double mechanical seals
		Bearing	Ball type bearing
	Material	Out cover	SUS304
		Upper cover	FC200
		Casing	FC200
		Casing cover	FC200
	Impeller	HiCr	
	Mech. seal	SIC/SIC	
Motor	Type	Dry type	
	Insulation	B Class(3.7kW : F Class) F class	
	Frequency · Pole	50Hz · 2P	
	Protector	Auto-cut	
	Material	Frame	SUS304 FC200
Main Shaft		SUS403 SUS420J2	
Cable		VCT HVCT (≥5.5kW)	
Optional	Float switch 50ADS-51.1(S)		

OPTIONAL OUTLET ACCESSORIES



Please refer to individual dimensional drawing for detailed.

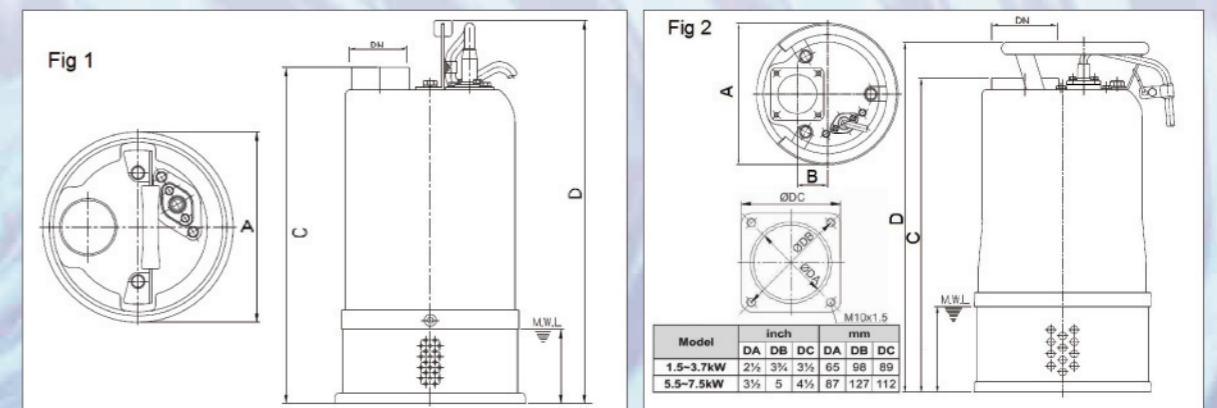
SELECTION CHART



PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Semi-open	50	1.1	1	Capacitor	50ADS-51.1S	0.2	13.5	7.5	28
				3	Direct	50ADS-51.1	0.2	13.5	7.5	24
			1.5	1	Capacitor	50ADS-51.5S	0.25	15	10	40
				3	Direct	50ADS-51.5	0.25	15	10	36
			2.2	1	Capacitor	50ADS-52.2S	0.3	19	10	45
				3	Direct	50ADS-52.2	0.3	19	10	39
	Enclosed	80	1.5	1	Capacitor	80ADS-51.5S	0.4	10	10.5	43
				3	Direct	80ADS-51.5	0.4	10	10.5	37
			2.2	1	Capacitor	80ADS-52.2S	0.5	14	10	45
				3	Direct	80ADS-52.2	0.5	14	10	39
			3.7	3	Direct	80ADS-53.7	0.5	21.5	10	44
				3	Direct	80ADS-55.5	0.5	28	10	72
Enclosed	100	3.7	3	Direct	100ADS-53.7	1	21.5	10	44	
			3	Direct	100ADS-55.5	1	19	10	72	
		5.5	3	Direct	100ADS-57.5	1	25	10	80	
			3	Direct	150ADS-55.5	1.5	12	10	78	
		7.5	3	Direct	150ADS-57.5	1.5	17	10	81	

DIMENSIONS



MODEL	Fig	DN	A	B	C	D	CABLE LENGTH
50ADS-51.1S	1	Female PS 2	210	NA	370	482	8000
50ADS-51.1	1	Female PS 2	210	NA	429	423	8000
50ADS-51.5S	2	50	235	50	448	511	8000
50ADS-51.5	2	50	235	50	403	466	8000
50ADS-52.2S	2	50	235	50	478	541	8000
50ADS-52.2	2	50	235	50	403	466	8000
80ADS-51.5S	2	80	235	50	448	511	8000
80ADS-51.5	2	80	235	50	403	466	8000
80ADS-52.2S	2	80	235	50	478	541	8000

MODEL	Fig	DN	A	B	C	D	CABLE LENGTH
80ADS-52.2	2	80	235	50	403	466	8000
80ADS-53.7	2	80	235	50	433	496	8000
80ADS-55.5	2	80	286	63	550	610	10000
100ADS-53.7	2	100	235	50	448	511	8000
100ADS-55.5	2	100	286	63	550	610	10000
100ADS-57.5	2	100	286	63	550	610	10000
150ADS-55.5	2	150	286	63	550	610	10000
150ADS-57.5	2	150	286	63	550	610	10000

ADM



Agitator

APPLICATIONS

- Dewatering of fluid which contains solid sediments.
- Civil engineering, dewatering of tunnel engineering , also for manhole sewer.
- Mobile use for contractors, installers and industry.

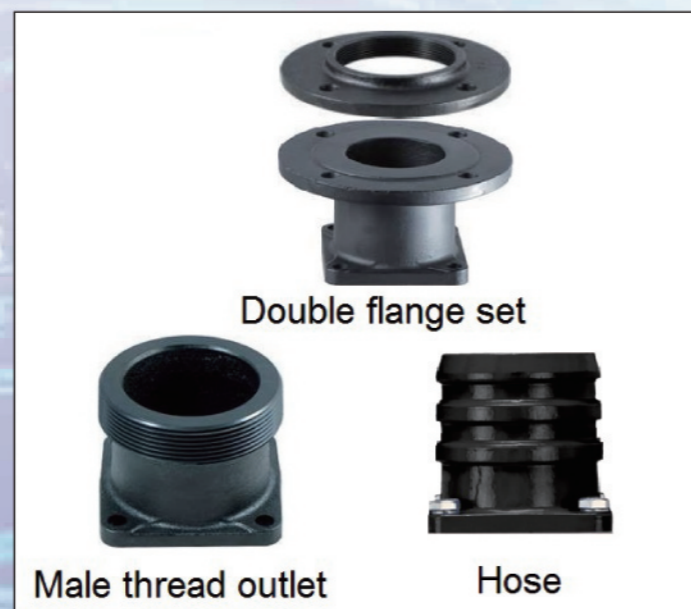
FEATURES

- Reliable waterproof structure, automatic rest motor protector and double mechanical seals made of silicon carbide,. Durable and leakproof.
- Compact, strong design and easy operation in any place.
- Designed for civil engineering, light weight for easy portability, double outer casing hydro motor cooling system make it possible to pump the water to low level.
- Impeller made of high chrome alloy steel with hardness of 55-60 HRC. Extremely durable and abrasion resistant.
- Equipped with a cast iron agitator to create powerful turbulence to carry away slurry.

SPECIFICATIONS

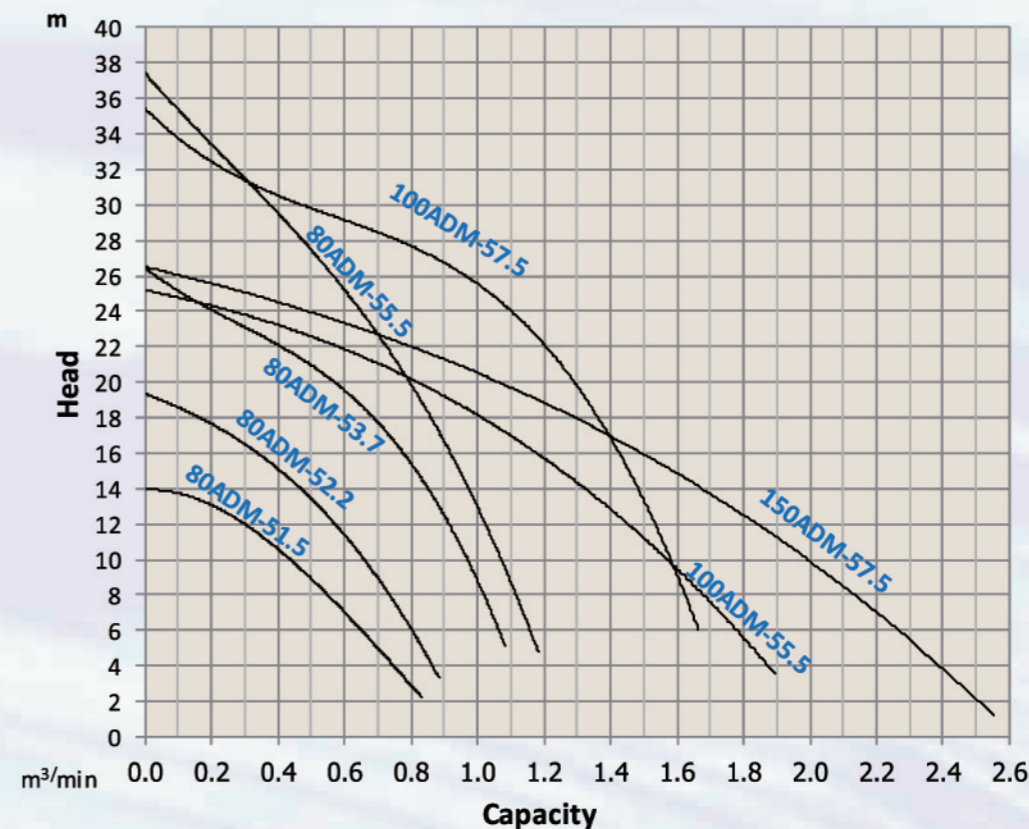
APPLICATION	Disc. Diameter(mm)	80 · 100 · 150
	Power(kW)	1.5~7.5
	Liquid temp	0~40°C
STRUCTURE	Liquid nature	Delivery of Sandy & Abrasive Liquid, Suitable for Construction or Mining Field
	Max. depth	30M
	Impeller	Semi-open (80ADM-55.5), Enclosed
	Mech. seal	Double mechanical seals
	Bearing	Ball type bearing
	Out cover	SUS304
	Upper cover	FC200
MATERIAL	Frame	FC200
	Impeller	HiCr
	Casing	FC200
	Agitator	FCD700
	Mech. seal	SIC / SIC
	Main shaft	SUS403(≤3.7kW), SUS420J2 (≥5.5kW)
	Cable	VCT
MOTOR	Type	Dry & High-Efficiency Motor
	Insulation	B class (F class ≥ 3.7kW)
	Frequency · Pole	50Hz · 2P
	Protector	Auto-cut

OPTIONAL OUTLET ACCESSORIES



Please refer to individual dimensional drawing for detailed.

SELECTION CHART

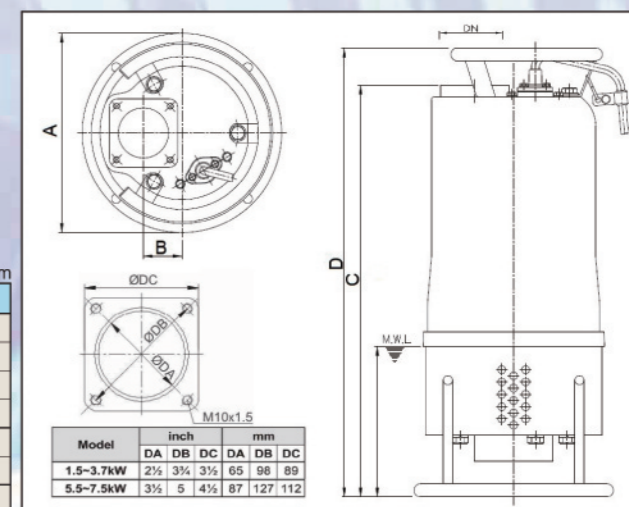


PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Enclosed	80	1.5	3	Direct	80ADM-51.5	0.4	9	10.5	38
			2.2	3	Direct	80ADM-52.2	0.4	13	10.5	40
			3.7	3	Direct	80ADM-53.7	0.5	18	10.5	46
	Semi-Open	80	5.5	3	Direct	80ADM-55.5	0.5	27	10	73
			5.5	3	Direct	100ADM-55.5	1	18	10	76
			7.5	3	Direct	100ADM-57.5	1	24	10	81
Enclosed	150	7.5	3	Direct	150ADM-57.5	1.5	16	10	82	

DIMENSIONS

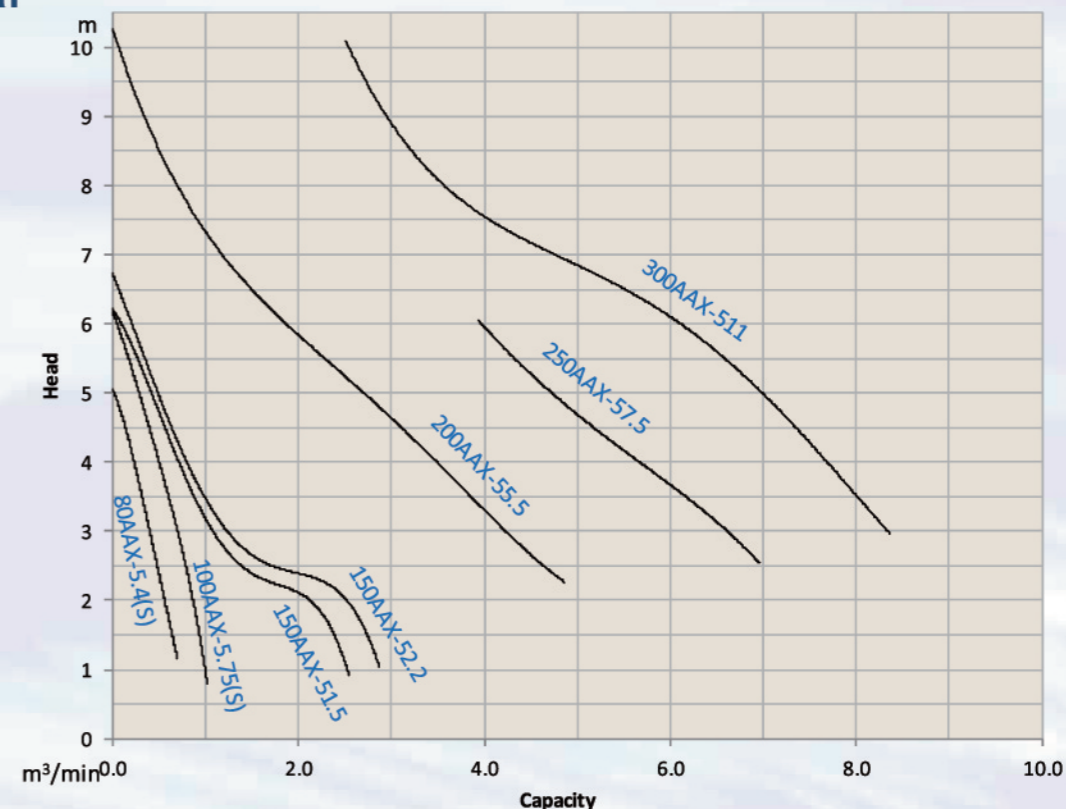
MODEL	DN	A	B	C	D	CABLE LENGTH
80ADM-51.5	80	260	50	499	547	8000
80ADM-52.2	80	260	50	499	547	8000
80ADM-53.7	80	260	50	529	577	8000
80ADM-55.5	80	286	63	623	683	10000
100ADM-55.5	100	286	63	623	683	10000
100ADM-57.5	100	286	63	623	683	10000
150ADM-57.5	150	286	63	623	683	10000



AAX (80mm~300mm)



SELECTION CHART



APPLICATIONS

- Aquaculture water pumping and drainage for large volume water applications.
- Water supply for landscape and water features.
- Extraction of water from rivers, lakes and reservoirs.
- Flood control.

FEATURES

- Robust construction and compact design with a dry motor, double mechanical seal and impeller flow guide vane high efficiency.
- Large flow capacities achieved with almost no vibration or noise by use of Axial & Mix flow design.
- Easy handling, energy saving and low maintenance.

PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase ϕ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Axial	80	0.4	1	Capacitor	80AAX-5.4S	0.5	2.5	10	25
				3	Direct	80AAX-5.4	0.5	2.5	10	25
		100	0.75	1	Capacitor	100AAX-5.75S	0.7	3	10	26
				3	Direct	100AAX-5.75	0.7	3	10	26
4	Axial	150	1.5	3	Direct	150AAX-51.5	2	2	20	51
				3	Direct	150AAX-52.2	2	2.5	20	52
		200	5.5	3	Direct	200AAX-55.5	3.5	4	22	116
				3	Direct	250AAX-57.5	5.5	4	22	157
		Mix	300	11	3	Direct	300AAX-511	7	4.5	23

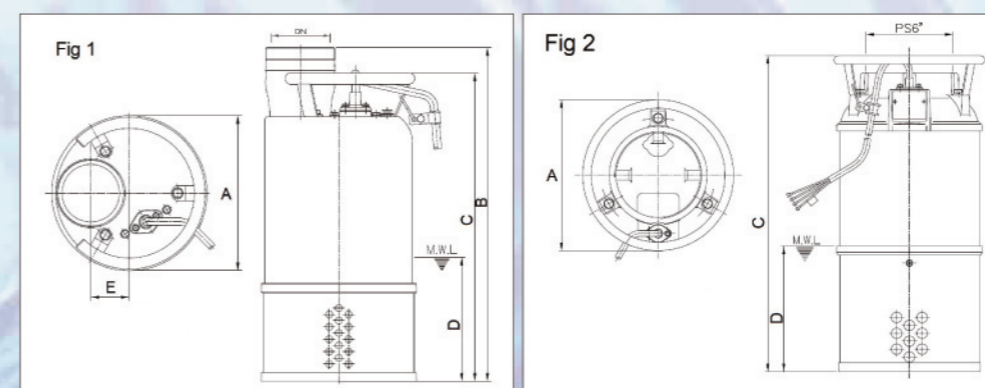
SPECIFICATION

Disc.diameter(mm)	80 · 100 · 150 · 200 · 250 · 300	
Pumping liquid	Liquid temp 0~40°C	
	Liquid nature Agriculture irrigation, Aquaculture water, River water	
	Max.depth 30M	
Pump	Structure	Impeller Axial-flow / Mix-flow (11kW)
		Mech. seal Double mechanical seals
		Bearing Ball type bearing
		Outer cover SUS304
		Upper cover FC200
	Material	Impeller ALBC3 Bronze
		Casing FC200
	Mech. seal CA/CE(5.5~11Kw), SIC/SIC(0.4~2.2Kw)	
Motor	Type	Dry type
	Insulation	B Class / F Class (≥5.5kW)
	Frequency · Pole	50Hz · 4P, 2P(≤0.75kW)
	Protector	Auto-cut(≥5.5kW Optional)
	Material	Frame FC200
		Main Shaft SUS403 (≥1.5kW) / SUS410 (≤0.75kW)
	Cable VCT / HVCT	

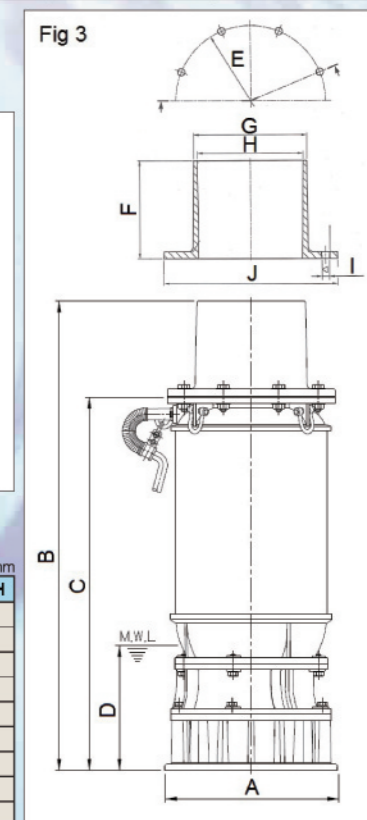
OPTIONAL OUTLET ACCESSORIES



DIMENSIONS



MODEL	Fig	DN	A	B	C	D	E	F	G	H	I	J	CABLE LENGTH
80AAX-5.4S	1	Male PT 3	225	484	447	180	56	NA	NA	NA	NA	NA	5000
80AAX-5.4	1	Male PT 3	225	484	447	180	56	NA	NA	NA	NA	NA	5000
100AAX-5.75S	1	Male PT 4	225	484	447	180	56	NA	NA	NA	NA	NA	5000
100AAX-5.75	1	Male PT 4	225	484	447	180	56	NA	NA	NA	NA	NA	5000
150AAX-51.5	2	Female PS 6	285	NA	597	237	NA	NA	NA	NA	NA	NA	8000
150AAX-52.2	2	Female PS 6	285	NA	597	237	NA	NA	NA	NA	NA	NA	8000
200AAX-55.5	3	200	340	923	733	250	285	185	215	201	φ14-8	330	10000
250AAX-57.5	3	250	380	1015	802	300	325	210	266	251	φ14-8	370	10000
300AAX-511	3	300	430	1077	856	260	389	220	317	301	φ14-12	430	10000



AAXL (500mm~700mm)



APPLICATIONS

- Water supply or drainage for industry.
- Water supply for hydro cooling system in the power plant.
- Drainage of waste water.
- Suitable for large volume dewatering.
- Water supply for agriculture irrigation.
- Extraction of water from dock and river.

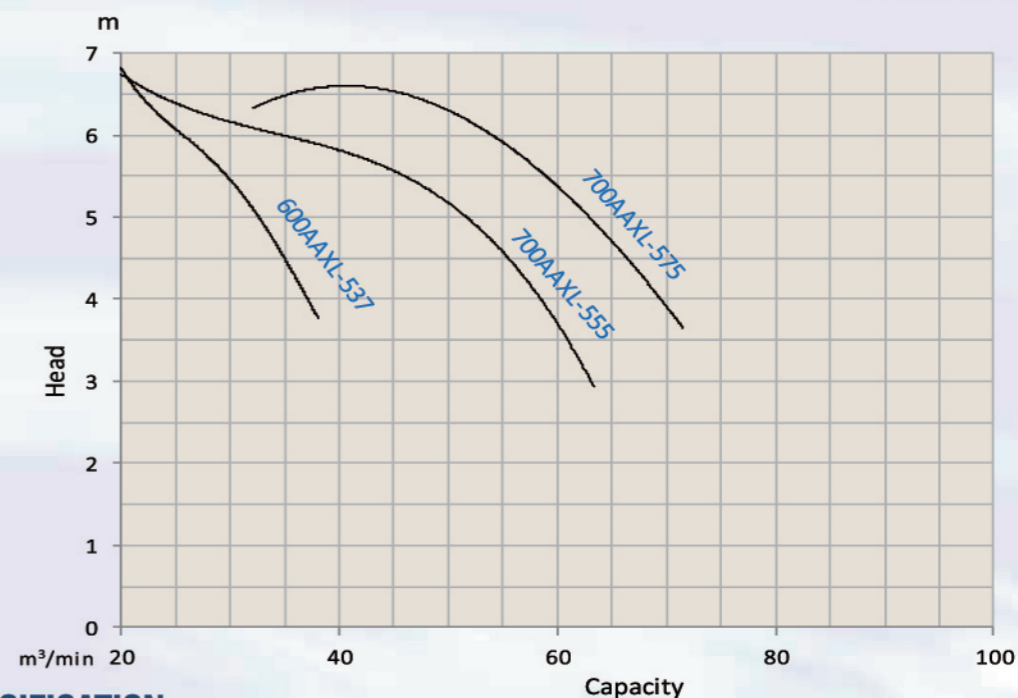
FEATURES

- Pump manufactured with firm structure, exposed cable lead hermetically sealed with epoxy for better protection against water and moisture, double mechanical seals, and IP68 dust free and water proof for long lasting operation.
- Shaft and impeller are precisely balanced for stable performance and silent operation.

SPECIFICATION

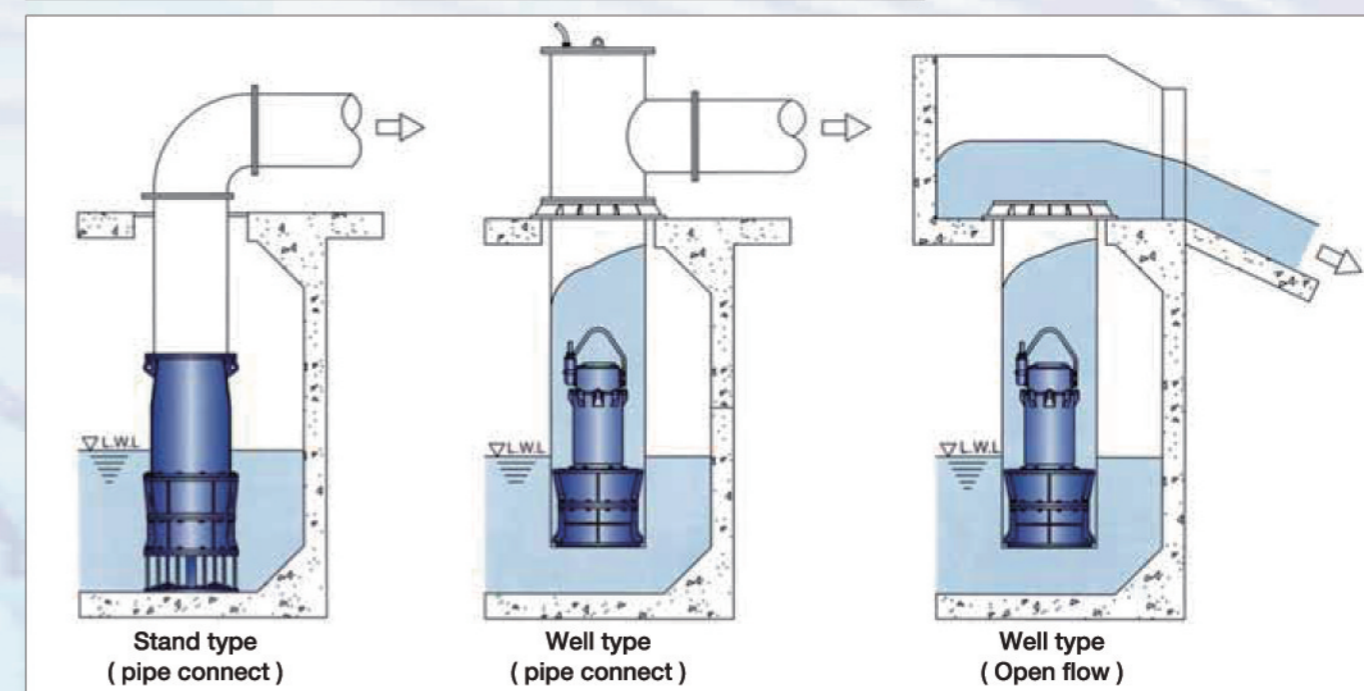
Pumping liquid	Disc.diameter (mm)	550~700
	Liquid temp	0~40°C
	Liquid nature	Waste water, Industry drainage, Agriculture irrigation, Aquaculture water
Pump	Structure	Impeller: Axial
	Mech. seal	Double mechanical seals
	Bearing	Ball type bearing
	Material	Upper cover: FC200
		Impeller: Bronze / Stainless steel
		Casing: FC200
Motor	Wear ring	SUS304
	Mech. seal	SIC + Hard alloy
	Protection Device	Water detector in mechanical seal chamber (optional)
	Type	Dry type
	Frequency · Pole	50Hz · 2P
	Phase Volt.	3φ, 380~460V
	Insulation	F Class (155°C)
	Protection Device	Motor thermal protector (optional)
	Material	Frame: FC200
		Shaft: SUS420J2
	Cable: 2PNCT	

SELECTION CHART



PERFORMANCE SPECIFICATION

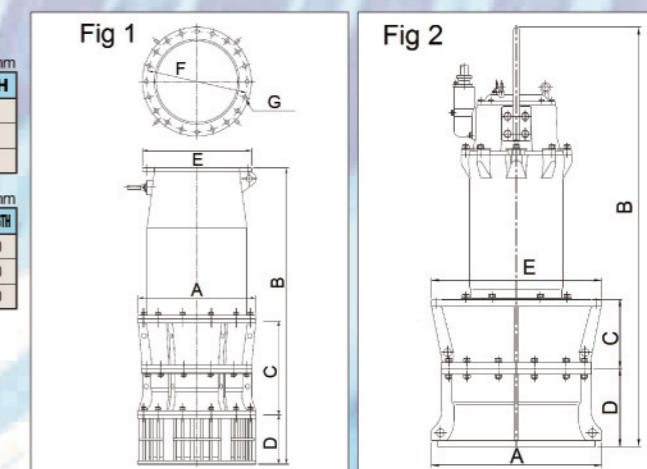
Model	Power HP (kW)	Discharge inch	Phase φ	Start Method	Capacity m³/min	Head m	Well Type	Stand Type
							Weight kg	Weight kg
600AAXL-537	50(37)	22~24	3	Y-Δ	40/38	3/4	850	1180
700AAXL-555	75(55)	28	3	Y-Δ	60	3.5	1530	2060
700AAXL-575	100(75)	28	3	Y-Δ	70	4	1600	2130



DIMENSIONS

Well Type	Fig	DN	A	B	C	D	E	CABLE LENGTH
600AAXL-537	2	600	φ780	1300	330	300	φ780	10000
700AAXL-555	2	700	φ870	2150	356	400	φ870	10000
700AAXL-575	2	700	φ870	2150	356	400	φ870	10000

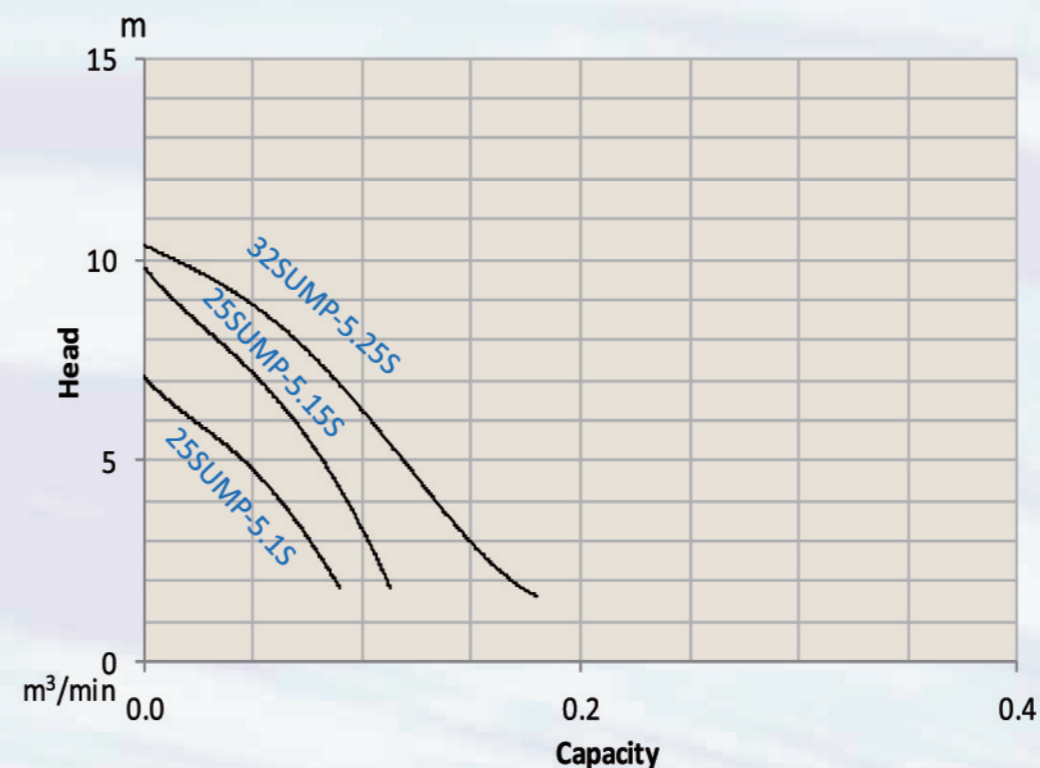
Stand Type	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
600AAXL-537	1	600	φ780	1960	630	330	φ720	665	φ27-20	10000
700AAXL-555	1	700	φ870	2720	750	420	φ875	820	φ27-24	10000
700AAXL-575	1	700	φ870	2720	750	420	φ875	820	φ27-24	10000



SUMP



SELECTION CHART



APPLICATIONS

- * Water Tank Circulation;
- * Water recycle in pond, pool & fountain;
- * Water supply & drainage;
- * Commercial Tank Beautification

FEATURES

- * High capacity, high efficient motor with low amperage providing energy saving
- * Motor with cooling effect even for low water positioning
- * Optional Accessories: Standard Float Switch (F) type or Vertical Float Switch (FV) for confined space application
- * New Vortex Design with superior performance

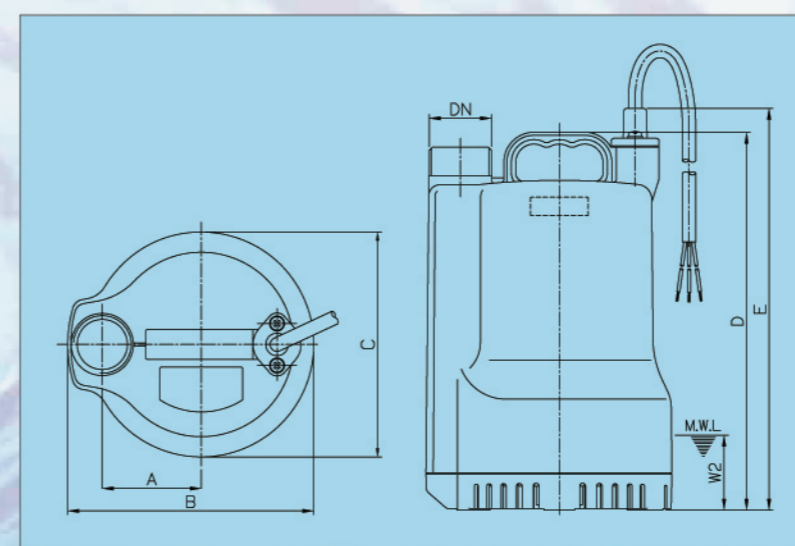
PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase ϕ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
2	Semi-Open	25	0.1	1	Capacitor	25SUMP-5.1S	0.05	4.5	4	4.0
			0.15	1	Capacitor	25SUMP-5.15S	0.06	6.5	4	4.4
		32	0.25	1	Capacitor	32SUMP-5.25S	0.1	6.5	4	4.1

SPECIFICATION

Disc.diameter(mm)		25	32	
Power		0.1 ~ 0.15kW	0.25kW	
Pumping liquid	Liquid temp	0~40°C		
	Liquid nature	Dirty water from sumps, Clean water, Basins and tanks	Marine culture, Sea water	
Max.depth		10M		
Pump	Structure	Semi-open		
	Mech. seal	Single mechanical seals		
	Bearing	Ball type bearing		
	Material	Upper cover	AAS	PP
	Material	Impeller	ABS+GF	PA
Motor	Casing	AAS	PP	
	Mech. seal	Carbon/ Ceramic		
Type		Dry type		
Insulation		B class		
Frequency · Pole		50Hz · 2P		
Protector		Overheat protector		
Material	Frame	ADC12	SUS304	
	Main Shaft	SUS410		
	Cable	VCT		
Optional		Float switch		

DIMENSIONS



UNIT:mm

MODEL	DN	A	B	C	D	E	W2	CABLE LENGTH
25SUMP-5.1S	PF 1	68	164	153	240	256	50	3000
25SUMP-5.15S	PF 1	68	164	153	240	256	50	3000
32SUMP-5.25S	PF 1.5	66	164	150	252	268	50	3000