TERAL

Submersible Pumps

Sewage, wastewater, drainage and flood control

Japan since 1918

SUBMERSIBLE SERIES

		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
Model								
Photo								
Impeller		Vortex Semi-open	Vortex (APV, APVN, APVNL) Semi-open (APVH)	Semi-open	Semi-open (ABOC, ABOH) Enclosed-channel non-clog (ABO(E))	Vortex(AVC, AVCL) Semi-open (AVCH)	Vortex	Semi-open
Liquid		"Waste water Sump drainage dewatering"	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	50 · 80 · 100	80 · 100 · 150 · 200 ·250 · 350 · 400	50 · 80 · 100	50 · 80 · 100	32 · 50
	Output (kW)	0.4~3.7	0.4~3.7	1.5~11	1.5~45	0.4~11	0.4~7.5	1.0~3.7
	Solid passage (mm)	7~20	26~76	20	50~120	30~76	50~100	N/A
Material	Casing	FC200	FC200	FC200	FC200	FC200	FC200	FC200
	Impeller	PA(50APL-5.4(S)) · FC200(≥0.4kW)	FC200	FC200	FC200: ABO(E), ABOH / Heat treated FC200(ABOC)	FC200	FC200	FC200 (Cutter SUS440C)
	Shaft	SUS410 (0.4 · 1.1kW) SUS403 (1.5 · 3.7kW)	SUS410 (0.4 · 0.75kW) SUS403 (1.5 · 3.7kW)	SUS420J2 (≥11kW) SUS403 (≤7.5kW)	SUS420J2 (ABOC≥11kW, ABOE≥5.5kW) SUS403 (ABOC, ABOH, ABOE≤3.7kW)	SUS410 (≤0.75kW), SUS403 (1.5~7.5kW) SUS420J2 (≥11kW)	SUS403 (0.4 ~ 3.7kW) SUS420J2 (≥5.5kW)	SUS403
	Mechanical seal	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC	SIC/SIC
Page		3	5	7	9	13	15	17

		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
Model									
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 · 80 · 100	50 · 80 · 100	50 · 80 · 100 · 150	80 · 100 · 150	100 · 150 · 200 · 250 · 300	550~700	25~32
	Output (kW)	1.1~7.5	0.4 · 11	0.4~11	1.1~7.5	1.5~7.5	0.4~11	37~75	0.1~0.25
	Solid passage (mm)	3.5~10	10~20	30~50	10	10	10~23	N/A	4
Material	Casing	FC200	SCS14	SCS14	FC200	FC200	FC200	FC200	ASA(≤0.15kW), PP(0.25kW)
	Impeller	Bronze (≤1.1kW) Chrome steel (≥1.5kW)	SCS14	SCS14	HiCrFC	HiCrFC	ALBC3 Bronze	SCS13	ABS(≤0.15kW), PA(0.25kW)
	Shaft	SUS403(≤2.2kW) SUS304(≥3.7kW)	SUS316	SUS316 SUS630 (≥11kW)	SUS403 SUS304 ≥3.7kW	SUS403 (≤2.2kW) SUS304 (≥3.7kW)	SUS304	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/SIC & SIC/SIC	CA/CE(≤0.15kW), SiC/SiC(0.25kW)
Page		19	21	23	25	27	29	31	33

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

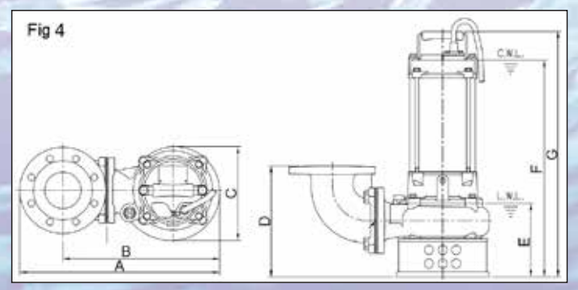
FEATURES

- 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.

SPECIFICATION

Disc.diameter(mm)			50 · 80 · 100
Pumping liquid	Liquid temp		0~40°C
	Liquid nature		Waste water
	Max.depth		30M
Pump	Structure	Impeller	Semi-open & Vortex
		Mech. seal	Double mechanical seals
		Bearing	Ball type bearing
	Material	Upper cover	FC200
		Impeller	FC200 (50APL-5.4(S):PA)
		Casing	FC200
		Casing cover	FC200
		Mech. seal	SIC/SIC
Motor	Type		Dry type
	Insulation		B class (F Class ≥1.1kW)
	Frequency · Pole		50Hz · 2P
	Protector		Auto-cut (50APL-5.4S: Overheat protector)
	Material	Frame	SUS304
		Main shaft	0.4 ~ 1.1kW : SUS410 1.5 ~ 2.2kW : SUS403
		Cable	VCT or H07RN-F or SOW
Optional			Float switch, Auto setter APLN Impeller: SUS316

Fig 4



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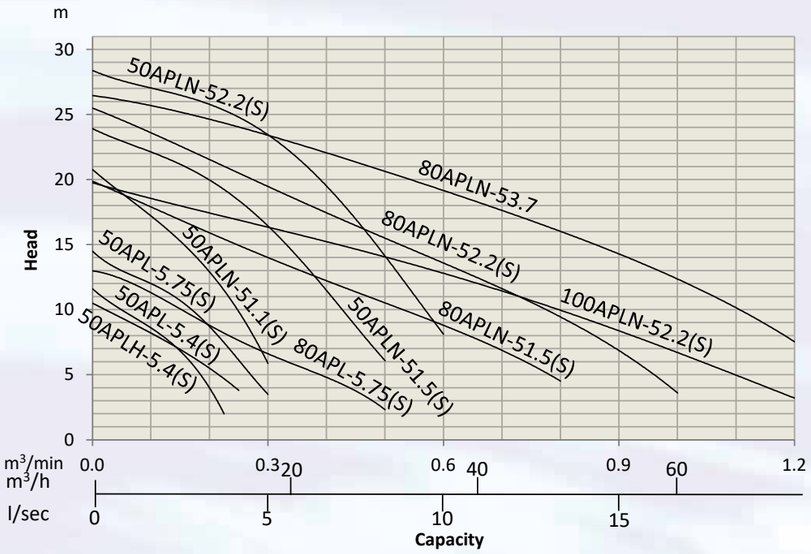


PERFORMANCE SPECIFICATION

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	13
				3	Direct	**50APL-5.4**	0.1	8	7.5	12
				1	Capacitor	**50APLH-5.4S**	0.15	7	10	16
				3	Direct	**50APLH-5.4**	0.15	7	10	14
			0.75	1	Capacitor	**50APL-5.75S**	0.18	10	10	17
				3	Direct	**50APL-5.75**	0.18	10	10	15
	Vortex		1.1	1	Capacitor	**50APLN-51.1S**	0.16	14.5	7	20
				3	Direct	**50APLN-51.1**	0.16	14.5	7	18
			1.5	1	Capacitor	**50APLN-51.5S**	0.25	18.5	10.5	31
				3	Direct	**50APLN-51.5**	0.25	18.5	10.5	27
			2.2	1	Capacitor	**50APLN-52.2S**	0.3	23.5	10.5	35
				3	Direct	**50APLN-52.2**	0.3	23.5	10.5	30
	Semi-open	80	0.75	1	Capacitor	**80APL-5.75S**	0.3	6.5	10	18
				3	Direct	**80APL-5.75**	0.3	6.5	10	17
			1.5	1	Capacitor	**80APLN-51.5S**	0.5	10.5	10.5	33
				3	Direct	**80APLN-51.5**	0.5	10.5	10.5	29
			2.2	1	Capacitor	**80APLN-52.2S**	0.5	15.5	10.5	37
				3	Direct	**80APLN-52.2**	0.5	15.5	10.5	32
			3.7	3	Direct	**80APLN-53.7**	0.6	19	20	35
		100	2.2	1	Capacitor	**100APLN-52.2S**	0.7	11.5	20	37
				3	Direct	**100APLN-52.2**	0.7	11.5	20	32

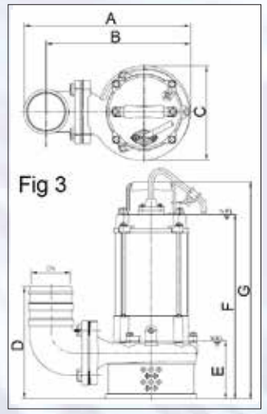


Fig 3

DIMENSIONS

Fig 1

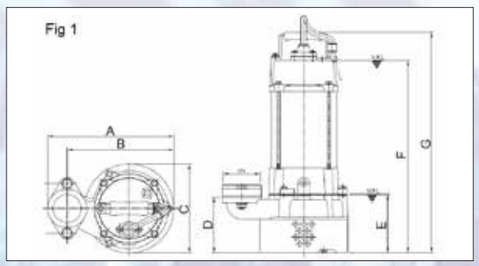
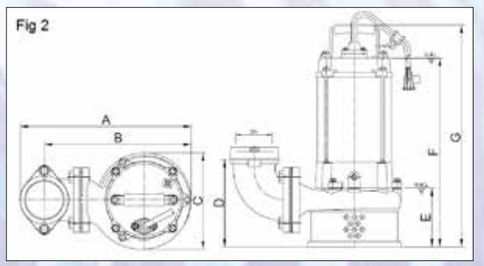


Fig 2



Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APL-5.4(S)	1	PF / NPT	225	190	161	86	88	316	371	5000
50APLH-5.4(S)	1	PF / NPT	245	207	173	109	100	373	428	5000
50APL-5.75(S)	1	PF / NPT	245	207	173	109	100	373	428	5000
50APLN-51.1S	1	PF / NPT	262	224	187	91	90	373	428	8000
50APLN-51.1	1	PF / NPT	262	224	187	91	90	353	408	8000
50APLN-51.5S	1	PF / NPT	282	244	207	138	141	517	580	8000
50APLN-51.5	1	PF / NPT	282	244	207	138	141	436	499	8000
50APLN-52.2S	1	PF / NPT	282	244	207	138	141	517	580	5000
50APLN-52.2	1	PF / NPT	282	244	207	138	141	436	499	5000
80APL-5.75(S)	1	PF / NPT	278	224	173	135	130	402	456	5000
80APLN-51.5S	2	PF / NPT	391	337	208	214	152	528	591	8000
80APLN-51.5	2	PF / NPT	391	337	208	214	152	447	510	8000
80APLN-52.2S	2	PF / NPT	391	337	208	214	152	540	603	8000
80APLN-52.2	2	PF / NPT	391	337	208	214	152	447	510	8000
80APLN-53.7	4	PT / NPT	440	346	207	244	162	477	540	8000
100APLN-52.2S	3	100	389	336	207	275	162	538	601	8000
100APLN-52.2	3	100	389	336	207	275	162	457	520	8000

APV



APPLICATIONS

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

FEATURES

- All rotors adopt heat treatment methood 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.

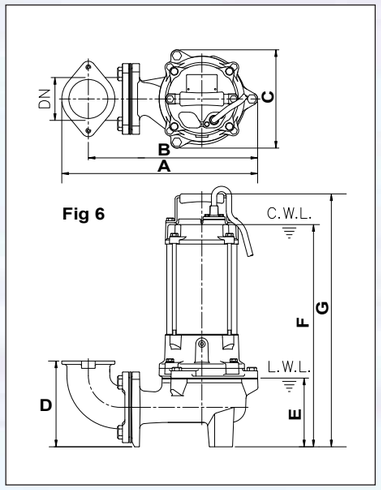


Fig 6

SPECIFICATION

Disc.diameter(mm)			50 · 80
Pumping liquid	Liquid temp		0~40°C
	Liquid nature		Waste water · Sewage water and industrial waste water
	Max.depth		30M
Pump	Structure	Impeller	Semi-open (APVH)
			Vortex (APV, APVN, APVNL)
		Mech. seal	Double mechanical seals
		Bearing	Ball type bearing
	Material	Upper cover	FC200
		Impeller	FC200
		Casing	FC200
		Casing cover	FC200
		Mech. seal	SIC/SIC
Motor	Type		Dry type
	Insulation		B class (F Class ≥1.5kW)
	Frequency · Pole		50Hz·2P
	Protector		Auto-cut (50APV-5.4S: Overheat protector)
	Material	Frame	SUS304
		Main shaft	0.4 ~ 0.75kW : SUS410 1.5 ~3.7kW : SUS403
		Cable	VCT or H07RN-F or SOW
Optional			Float switch, Auto setter APVN Impeller: SUS316

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.

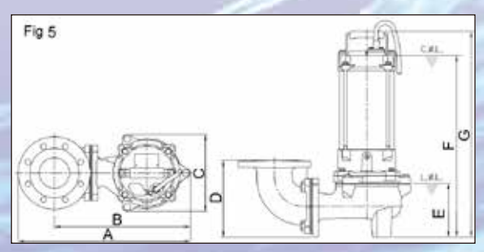


Fig 5

SELECTION CHART

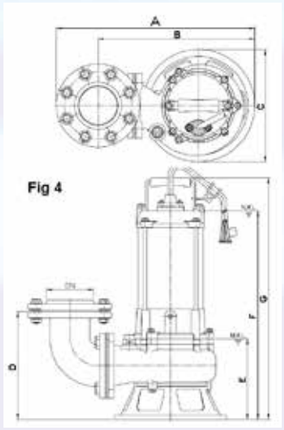
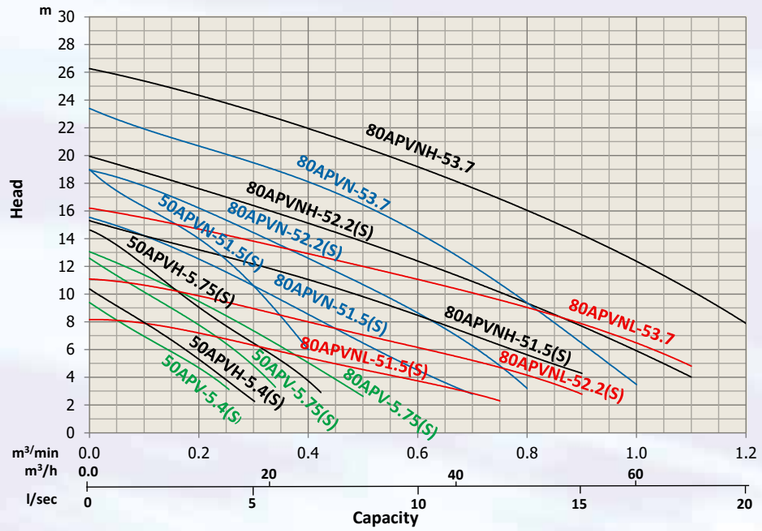


Fig 4



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	17
				3	Direct	50APV-5.75	0.2	8	35	16
			1.5	1	Capacitor	50APVN-51.5S	0.2	14	35	30
				3	Direct	50APVN-51.5	0.2	14	35	25
		80	0.75	1	Capacitor	80APV-5.75S	0.3	6.5	30	18
				3	Direct	80APV-5.75	0.3	6.5	30	17
			1.5	1	Capacitor	80APVN-51.5S	0.4	8.5	50	32
				3	Direct	80APVN-51.5	0.4	8.5	50	28
			2.2	1	Capacitor	80APVN-52.2S	0.4	12.5	50	35
				3	Direct	80APVN-52.2	0.4	12.5	50	30
			3.7	3	Direct	80APVN-53.7	0.5	16.5	50	33
			1.5	1	Capacitor	80APVNL-51.5S	0.5	4.5	76	35
				3	Direct	80APVNL-51.5	0.5	4.5	76	30
			2.2	1	Capacitor	80APVNL-52.2S	0.5	7	76	37
				3	Direct	80APVNL-52.2	0.5	7	76	32
			3.7	3	Direct	80APVNL-53.7	0.6	11	76	35
	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	80APVNH-51.5S	0.6	8.5	35	34
				3	Direct	80APVNH-51.5	0.6	8.5	35	30
			2.2	1	Capacitor	80APVNH-52.2S	0.6	12.5	35	37
				3	Direct	80APVNH-52.2	0.6	12.5	35	32
			3.7	3	Direct	80APVNH-53.7	0.6	19	35	35

DIMENSIONS

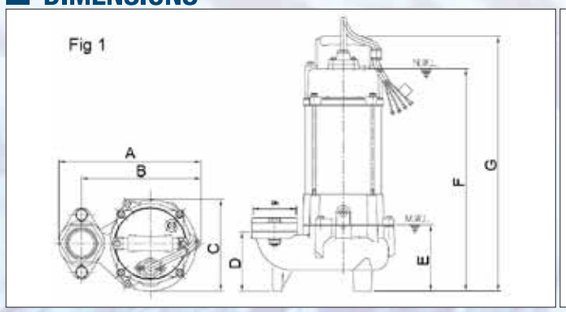


Fig 1

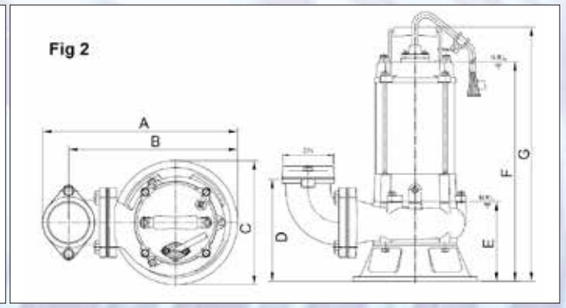


Fig 2

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APV-5.4(S)	1	PF / NPT	237	199	154	99	111	371	425	5000
50APV-5.75(S)	1	PF / NPT	237	199	154	99	111	371	425	5000
50APVN-51.5S	1	PF / NPT	288	250	202	88	100	483	546	8000
50APVN-51.5	1	PF / NPT	288	250	202	88	100	415	477	8000
80APV-5.75(S)	3	PF / NPT	278	224	173	135	130	402	456	5000
80APVN-51.5S/-52.2S	6	PF / NPT	402	348	202	176	140	525/537	588/600	8000
80APVN-51.5/-52.2	6	PF / NPT	402	348	202	176	141	456	519	8000
80APVN-53.7	5	PF / NPT	453	358	202	201	140	476	539	8000
80APVNL-51.5S/-52.2S	6	PF / NPT	407	353	221	215	193	577/589	640/652	8000
80APVNL-51.5/-52.2	6	PT / NPT	407	353	221	215	193	508	571	8000
80APVNL-53.7	5	PF / NPT	458	363	221	240	193	528	591	8000
50APVH-5.4(S)	2	PF / NPT	276	238	235	143	145	404	459	5000
50APVH-5.75(S)	2	PF / NPT	276	238	235	143	145	404	459	5000
80APVNH-51.5S/-52.2S	2	PF / NPT	417	363	260	218	163	527/539	590/602	8000
80APVNH-51.5/-52.2	2	PT / NPT	417	363	260	218	163	458	521	8000
80APVNH-53.7	4	PT / NPT	468	373	260	243	163	478	541	8000

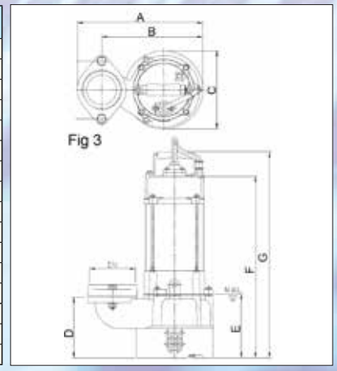


Fig 3

ASU

APPLICATIONS

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

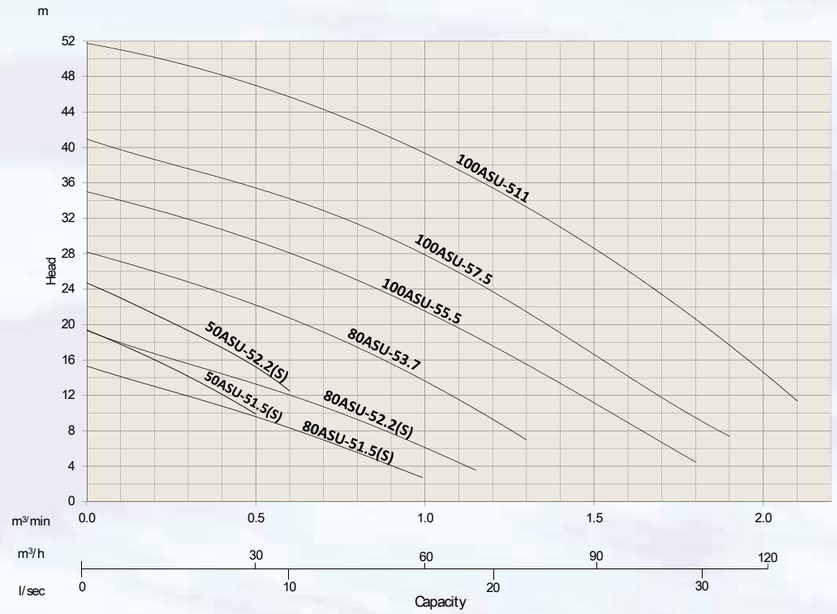
FEATURES

- 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

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
		Mech. seal	Double mechanical seals
		Bearing	Ball type bearing
	Material	Upper cover	FC200
		Impeller	FC200
		Casing	FC200
		Mech. seal	CA/CE & SiC/SiC
Motor	Type		Dry type
	Insulation		B class (≤2.2kW) F class (≥3.7kW)
	Frequency · Pole		50Hz · 2P
	Protector		Auto-cut(≤7.5kW)·MTP &WD(≥11kW)
	Material	Frame	FC200
		Main shaft	SUS420J2 (≥11kW) SUS403 (≤7.5kW)
		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	20	35
				3	Direct	**50ASU-51.5**	0.4	12	20	31
			2.2	1	Capacitor	**50ASU-52.2S**	0.4	17.5	20	38
				3	Direct	**50ASU-52.2**	0.4	17.5	20	34
		80	1.5	1	Capacitor	**80ASU-51.5S**	0.6	8.5	20	37
				3	Direct	**80ASU-51.5**	0.6	8.5	20	32
			2.2	1	Capacitor	**80ASU-52.2S**	0.6	12.5	20	39
				3	Direct	**80ASU-52.2**	0.6	12.5	20	35
			3.7	3	Direct	**80ASU-53.7**	0.6	20.5	20	49
		100	5.5	3	Direct	**100ASU-55.5**	1	21.5	20	75
			7.5	3	Direct	**100ASU-57.5**	1	28	20	81
			11	3	Direct	**100ASU-511**	1	39.5	20	91

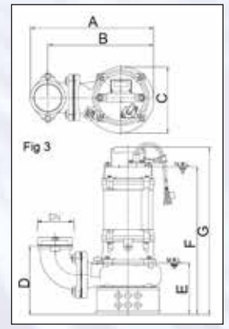
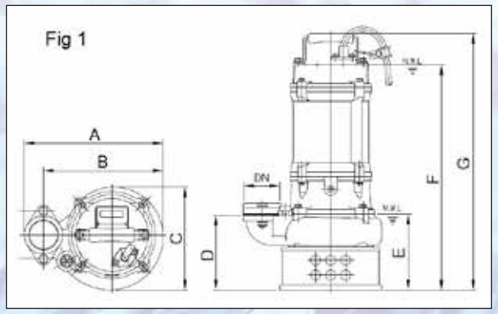
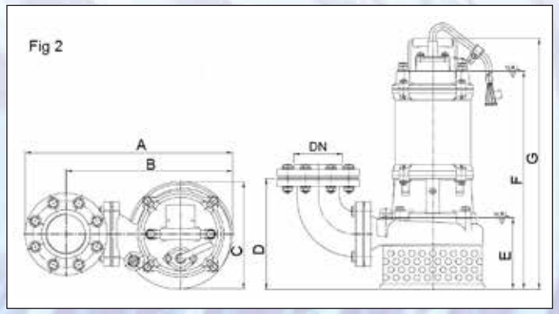


Fig 3

DIMENSIONS





Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50ASU-51.5S	1	PF	278	240	212	150	150	502	565	8000
50ASU-51.5	1	PF	278	240	212	150	150	451	514	8000
50ASU-52.2S	1	PF	278	240	212	150	150	535	598	8000
50ASU-52.2	1	PF	278	240	212	150	150	451	514	8000
80ASU-51.5S	3	PF	391	337	214	217	162	512	575	8000
80ASU-51.5	3	PF	391	337	214	217	162	457	520	8000
80ASU-52.2S	3	PF	391	337	214	217	162	539	602	8000
80ASU-52.2	3	PF	391	337	214	217	162	457	520	8000
80ASU-53.7	2	PT 3	470	376	242	250	176	510	578	8000
80(100)ASU-55.5	2	PT 4	534(565)	440(455)	290	271(282)	198	590	689	10000
80(100)ASU-57.5	2	PT 4	534(565)	440(455)	290	271(282)	198	590	689	10000
80(100)ASU-511	2	PT 4	534(565)	440(455)	290	271(282)	198	630	729	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, autocut, 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.

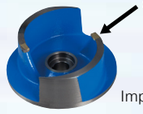
MTP-Motor Thermal Protector

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.

Bottom Casing cover



Cutter

Impeller

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.

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.

SPECIFICATION

Type			ABOC	ABOH	ABO(E)
Disc. Diameter(mm)			80·100	80·100	100·150·200·250
Pumping liquid		Liquid temp	0~40ºC		
		Liquid nature	Waste water and sewage		Industrial waste water and sewage
		Max. depth	20M		
Pump	Structure	Impeller	Semi-open	Semi-open	Enclosed
		Mech. seal	Double mechanical seals		
		Bearing	Ball type bearing		
	Material	Upper cover	FC200		
		Impeller	Heat Treated FC200	FC200	FC200
		Cutter	Tungsten Blade	N.A.	N.A.
		Agitator	N.A.	N.A.	N.A.
		Casing	FC200		
		Mech. seal	SIC/SIC		
Motor		Type	Dry type		
		Insulation	F class (H Class ≥ 5.5kW)	B class (F Class ≥ 3.7kW)	H Class
		Frequency · Pole	50Hz · 2P	50Hz · 4P	50Hz · 4P
		Protector	Auto-cut(≤7.5kW), Motor thermal protector(≥ 11kW)		
	Material	Frame	FC200		
		Main shaft	SUS403(≤ 7.5kW) SUS420J2(≥11kW)	SUS403	SUS403(≤ 3.7kW) SUS420J2(≥5.5kW)
		Cable	VCT or H07RN-F or SOW / HVCT (≥7.5kW)		
Optional			Auto setter Water detector Float switch (ABO ≤ 1.5kW and ABOC)		

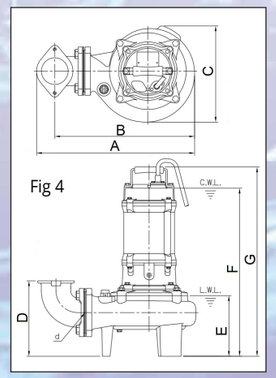


Fig 4

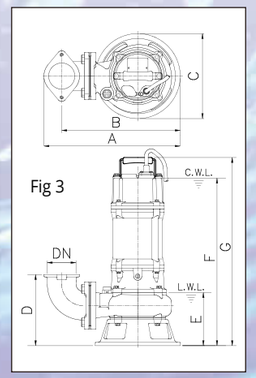
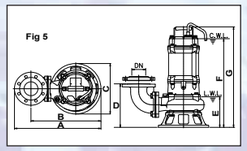
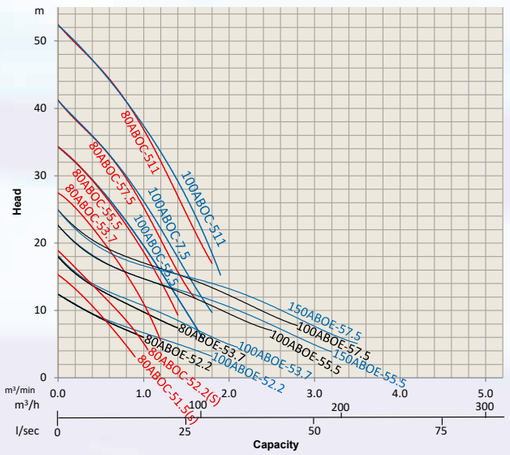
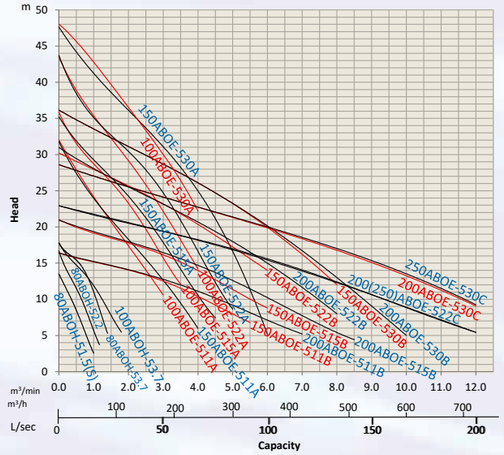


Fig 3



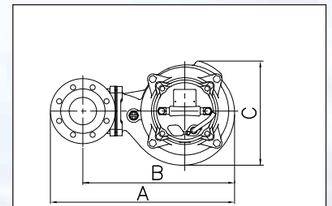
SELECTION CHART





PERFORMANCE SPECIFICATION

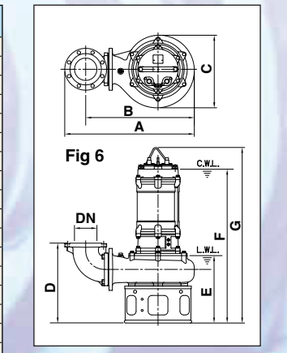
Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m³/min	Head m	Solid passage mm	Weight kg
4	Semi-open	80	1.5	1	Capacitor	80ABOH-51.5S	0.5	8	50	47
				3	Direct	80ABOH-51.5	0.5	8	50	47
			2.2	3	Direct	80ABOH-52.2	0.6	10	50	58
			3.7	3	Direct	80ABOH-53.7	0.6	14.5	50	67
		100	3.7	3	Direct	100ABOH-53.7	1	11.5	50	67
	Enclosed channel Non-clog	80	2.2	3	Direct	80ABOE-52.2	0.8	7	76	60
			3.7	3	Direct	80ABOE-53.7	0.8	11	76	71
		100	2.2	3	Direct	100ABOE-52.2	1	6.5	76	60
			3.7	3	Direct	100ABOE-53.7	1	10.5	76	71
			5.5	3	Direct	100ABOE-55.5	1	14	76	110
			7.5	3	Direct	100ABOE-57.5	1	17	76	120
			11	3	Y-Δ	100ABOE-511A	1	24	76	164
			15	3	Y-Δ	100ABOE-515A	1	29	76	176
			22	3	Y-Δ	100ABOE-522A	1	35.5	76	229
			30	3	Y-Δ	100ABOE-530A	1	42	76	250
		150	5.5	3	Direct	150ABOE-55.5	1.5	12	76	110
			7.5	3	Direct	150ABOE-57.5	1.5	15	76	120
			11	3	Y-Δ	150ABOE-511A	2.5	15.5	76	164
				3	Y-Δ	150ABOE-511B	2.5	13	80	198
			15	3	Y-Δ	150ABOE-515A	2.5	21	76	176
				3	Y-Δ	150ABOE-515B	2.5	17	80	208
			22	3	Y-Δ	150ABOE-522A	2.5	27.5	76	229
				3	Y-Δ	150ABOE-522B	2.5	24	76	276
			30	3	Y-Δ	150ABOE-530A	2.5	33.5	76	250
				3	Y-Δ	150ABOE-530B	2.5	30	76	298
		200	11	3	Y-Δ	200ABOE-511B	4.5	9.5	80	198
			15	3	Y-Δ	200ABOE-515B	4.5	13.5	80	208
			22	3	Y-Δ	200ABOE-522B	4.5	19	76	276
				3	Y-Δ	200ABOE-522C	4.5	17.5	100x84	293
			30	3	Y-Δ	200ABOE-530B	4.5	25	76	298
				3	Y-Δ	200ABOE-530C	4.5	22.5	100x84	315
		250	22	3	Y-Δ	250ABOE-522C	7	13.5	100x84	293
			30	3	Y-Δ	250ABOE-530C	7	18.5	100x84	315
2	Semi-Open with Cutter	80/100	1.5	1	Capacitor	80ABOC-51.5S	0.6	7.5	62	37
				3	Direct	80ABOC-51.5	0.6	7.5	62	33
			2.2	1	Capacitor	80ABOC-52.2S	0.6	11	62	40
				3	Direct	80ABOC-52.2	0.6	11	62	35
			3.7	3	Direct	80ABOC-53.7	0.6	19	62	48
			5.5	3	Direct	80/100ABOC-55.5	0.6/1.0	26/19.5	67	75
			7.5	3	Direct	80/100ABOC-57.5	0.6/1.0	33/26	67	81
			11	3	Y-Δ	80/100ABOC-511	0.6/1.0	44/37	67	91



DIMENSIONS

Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
80ABOH-51.5S	4	80	474	420	288	226	182	582	645	8000
80ABOH-51.5	4	80	474	420	288	226	182	504	567	8000
80ABOH-52.2	4	80	550	456	313	251	184	529	603	8000
80(100)ABOH-53.7	1	80/100	550/581	456/471	313	251/263	184	569	643	8000
80(100)ABOE-52.2	1	80/100	521/551	426/441	287	294/305	241	586	660	8000
80(100)ABOE-53.7	1	80/100	539/569	444/459	304	294/305	241	626	700	8000
100(150)ABOE-55.5	1	100/150	653/713	543/573	374	328/385	276	687	786	8000
100(150)ABOE-57.5	1	100/150	653/713	543/573	374	328/385	276	727	826	10000
100(150)ABOE-511A	1	100/150	743/803	633/663	447	341/371	286	793	918	10000
100(150)ABOE-515A	1	100/150	743/803	633/663	447	341/371	286	793	918	10000
150(200)ABOE-511B	6	150/200	838/839	698/723	450	529/539	444	951	1076	10000
150(200)ABOE-515B	6	150/200	838/839	698/723	450	529/539	444	951	1076	10000
100(150)ABOE-522A	1	100/150	778/838	668/698	476	352/382	297	834	979	10000
100(150)ABOE-530A	1	100/150	778/838	668/698	476	352/382	297	874	1019	10000
150(200)ABOE-522B	6	150/200	865/920	725/750	485	533/543	450	987	1132	10000
150(200)ABOE-530B	6	150/200	865/920	725/750	485	533/543	450	1027	1172	10000
200(250)ABOE-522C	6	200/250	1010/1073	840/870	524	613/628	495	1032	1177	10000
200(250)ABOE-530C	6	200/250	1010/1073	840/870	524	613/628	495	1072	1217	10000
80ABOC-51.5S/-52.2S	3	80	417	363	260	218	163	513/540	576/603	8000
80ABOC-51.5/-52.2	3	80	417	363	260	218	163	458	521	8000
80ABOC-53.7	5	80	498	403	290	250	176	510	578	8000
80(100)ABOC-55.5	5	80/100	565/596	471/486	345	271/282	198	590	689	8000
80(100)ABOC-57.5	5	80/100	565/596	471/486	345	271/282	198	590	689	10000
80(100)ABOC-511	5	80/100	565/596	471/486	345	271/282	198	630	729	10000



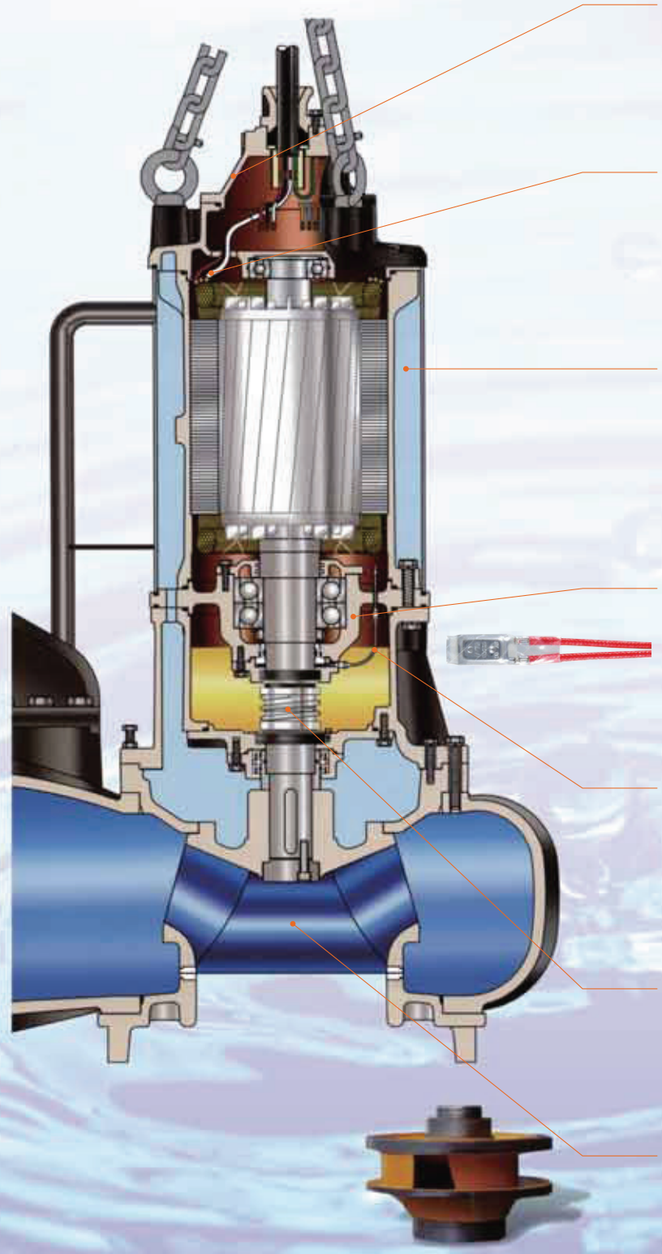
ABO (250mm～400mm)

SPECIFICATION

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

SPECIAL SPECIFICATION

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



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.)

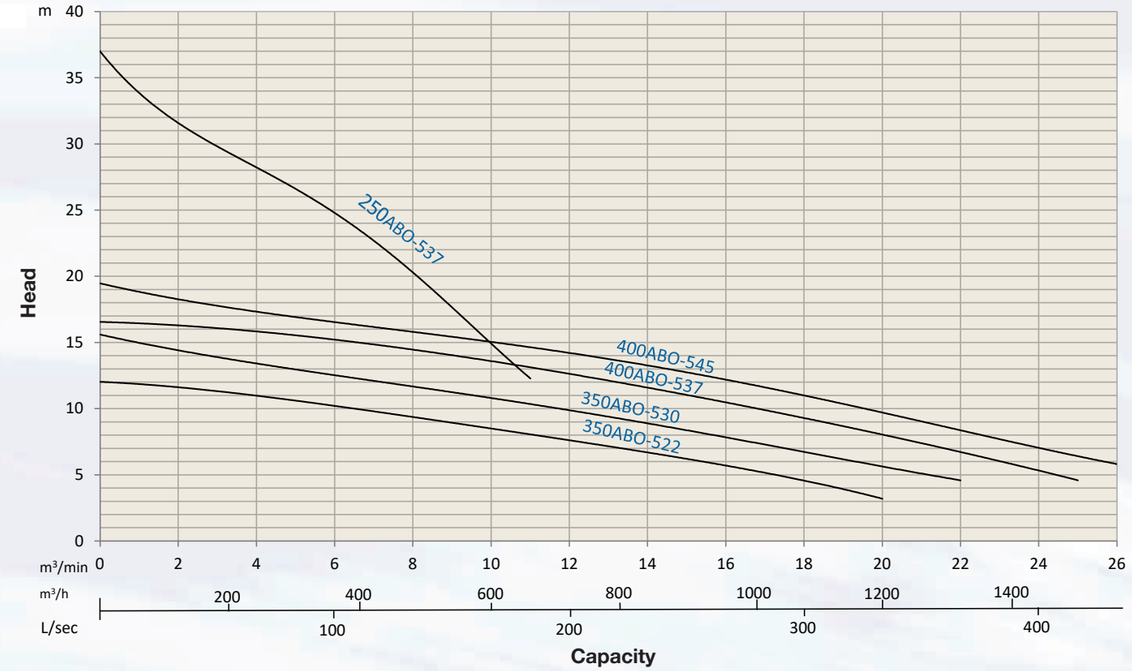
Bearing Thermal detector (optional)
The optional Bearing Thermal **Detector (BTD)** is attached to the bearing for detection of excessive heat generated during its operation. When abnormal temperature is detected, the device will automatically cut off the power supply to prolong the bearing's life.

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



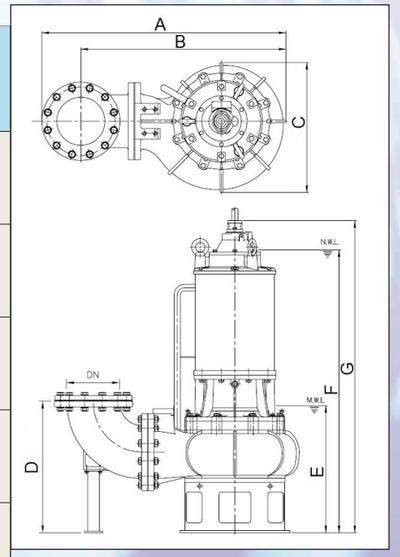
PERFORMANCE SPECIFICATION

Hz	Model	Power HP (kW)	Discharge Inch(mm)	Phase φ	Pole	Start Method	Head m	Capacity m3/min	Head ft	Capacity GPM	Solid passage mm	Weight kg (lb)
50	**250ABO-537**	50(37)	10(250)	3	4	Y-Δ	22	7	72.2	1850	60	691(1523)
	350ABO-522	30(22)	14(350)	3	8	Y-Δ	6.5	14	21.3	3700	120	828(1825)
	350ABO-530	40(30)	14(350)	3	6	Y-Δ	8.5	14	28	3700	120	833(1836)
	400ABO-537	50(37)	16(400)	3	6	Y-Δ	7.5	20	24.6	5285	120	965(2127)
	400ABO-545	60(45)	16(400)	3	6	Y-Δ	9	20	29.5	5285	120	970(2138)

DIMENSIONS

Unit: mm

MODEL	DN	A	B	C	D	E	F	G	CABLE LENGTH
250ABO-537	250	1273	1070	676	684	660	1342	1621	10000
350ABO-522	350	1544	1277	813	883	800	1485	1763	10000
350ABO-530	350	1544	1277	813	883	800	1485	1763	10000
400ABO-537	400	1558	1277	813	883	800	1485	1763	10000
400ABO-545	400	1558	1277	813	883	800	1485	1763	10000

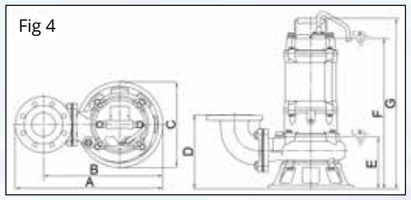


AVC

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.

Fig 4



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 mechnical 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

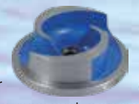
Epoxy resin sealed cable base to prevent moisture from entering motor.

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.



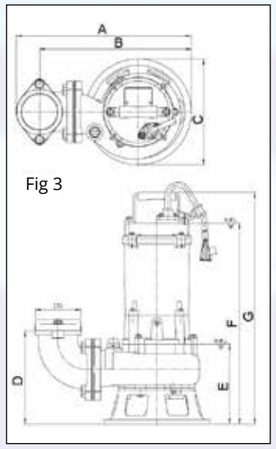
* Semi open impeller can effectively chop down delicate materials to prevent congestion.

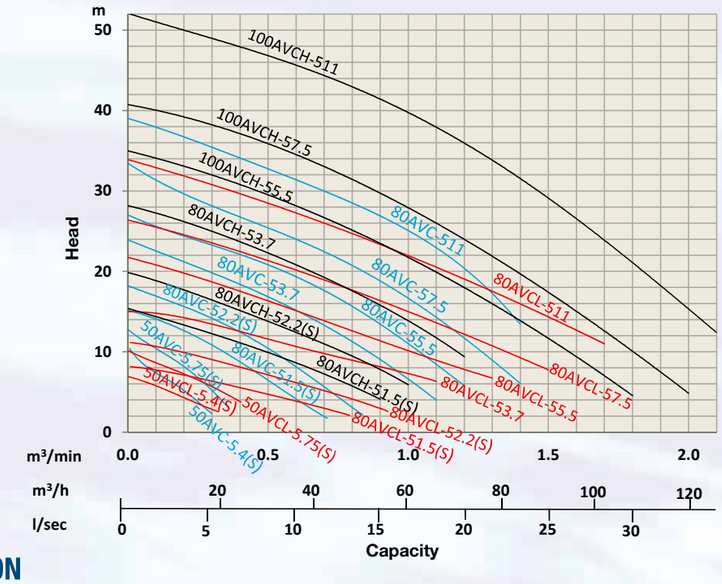
SPECIFICATION

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	Non-Clog
			Vortex: AVC(L) / Semi-Open: AVCH
		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 · 2P
	Protector		Auto-cut(≤7.5kW), Motor thermal protector & WD(≥ 11kW)
	Material	Frame	FC200
		Main Shaft	SUS410(0.4 ~ 0.75kW) / SUS403(1.5~ 7.5kW) / SUS420J2(11kW)
		Cable	VCT
Optional			Float switch(≤2.2kW) Water detector(1.5kW~2.2kW) Auto setter

SELECTION CHART

Fig 3

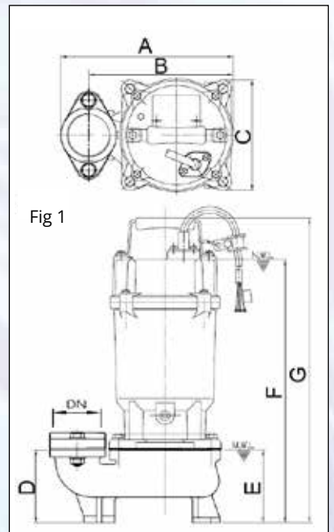




PERFORMANCE SPECIFICATION

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
			0.75	1	Capacitor	50AVC-5.75S	0.2	8	35	20
				3	Direct	50AVC-5.75	0.2	8	35	19
				1	Capacitor	50AVCL-5.75S	0.25	6.5	50	22
				3	Direct	50AVCL-5.75	0.25	6.5	50	21
		80	1.5	1	Capacitor	80AVC-51.5S	0.4	8.5	50	35
				3	Direct	80AVC-51.5	0.4	8.5	50	32
				1	Capacitor	80AVCL-51.5S	0.5	4.5	76	38
				3	Direct	80AVCL-51.5	0.5	4.5	76	34
			2.2	1	Capacitor	80AVC-52.2S	0.4	12.5	50	38
				3	Direct	80AVC-52.2	0.4	12.5	50	34
				1	Capacitor	80AVCL-52.2S	0.5	7	76	40
				3	Direct	80AVCL-52.2	0.5	7	76	36
			3.7	3	Direct	80AVC-53.7	0.5	16.5	50	46
				3	Direct	80AVCL-53.7	0.6	11	76	48
			5.5	3	Direct	80AVC-55.5	0.6	19.5	50	68
				3	Direct	80AVCL-55.5	0.8	13	76	70
			7.5	3	Direct	80AVC-57.5	0.6	24	50	74
				3	Direct	80AVCL-57.5	0.8	17.5	76	76
			11	3	Direct	80AVC-511	0.6	31.5	50	85
				3	Direct	80AVCL-511	0.8	24.5	76	87
	Semi-open	80	1.5	1	Capacitor	80AVCH-51.5S	0.6	8.5	35	37
				3	Direct	80AVCH-51.5	0.6	8.5	35	33
			2.2	3	Direct	80AVCH-52.2	0.6	12.5	35	35
			3.7	3	Direct	80AVCH-53.7	0.6	20.5	32	48
		100	5.5	3	Direct	100AVCH-55.5	1	21.5	30	75
			7.5	3	Direct	100AVCH-57.5	1	28	30	81
			11	3	Direct	100AVCH-511	1	39.5	30	91

Fig 1

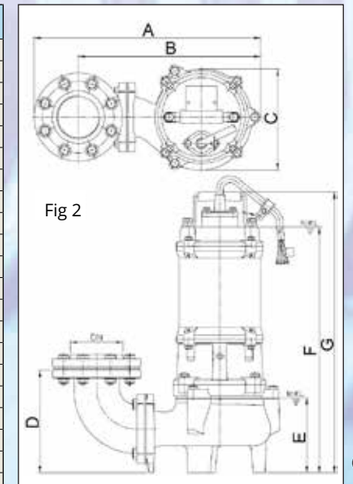


DIMENSIONS

Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50AVC-5.4(S)/-5.75(S)	1	PF / NPT	235	197	154	99	100	360	417	5000
80AVC-51.5S	1	PF / NPT	397	343	202	171	140	511	574	8000
80AVC-51.5/-52.2	1	PF / NPT	397	343	202	171	140	456	519	8000
80AVC-52.2S	1	PF / NPT	397	343	202	171	140	538	601	8000
80AVC-53.7	2	PT / NPT	481	389	222	205	145	505	573	8000
80AVC-55.5/-57.5	2	PT / NPT	501	407	258	206	147	566	665	10000
80AVC-511	2	PT / NPT	501	407	258	206	147	606	705	10000
80AVCH-51.5S	3	PF / NPT	417	363	260	218	163	513	576	8000
80AVCH-52.2S	3	PF / NPT	417	363	260	218	163	540	603	8000
80AVCH-51.5/-52.2	3	PF / NPT	417	363	260	218	163	458	521	8000
80AVCH-53.7	4	PT / NPT	498	403	290	250	176	510	578	8000
80(100)AVCH-55.5	4	PT / NPT	565(596)	471(486)	345	271(282)	198	590	689	10000
80(100)AVCH-57.5	4	PT / NPT	565(596)	471(486)	345	271(282)	198	590	689	10000
80(100)AVCH-511	4	PT / NPT	565(596)	471(486)	345	271(282)	198	630	729	10000
50AVCL-5.4(S)/-5.75(S)	1	PF / NPT	307	268	164	150	130	390	447	5000
80AVCL-51.5S	1	PF / NPT	402	348	221	210	190	563	626	8000
80AVCL-51.5/-52.2	1	PF / NPT	402	348	221	210	190	508	571	8000
80AVCL-52.2S	1	PF / NPT	402	348	221	210	190	590	653	8000
80AVCL-53.7	2	PT / NPT	481	389	235	241	197	557	625	8000
80AVCL-55.5/-57.5	2	PT / NPT	506	412	273	242	199	618	717	10000
80AVCL-511	2	PT / NPT	506	412	273	242	199	658	757	10000

Fig 2



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.

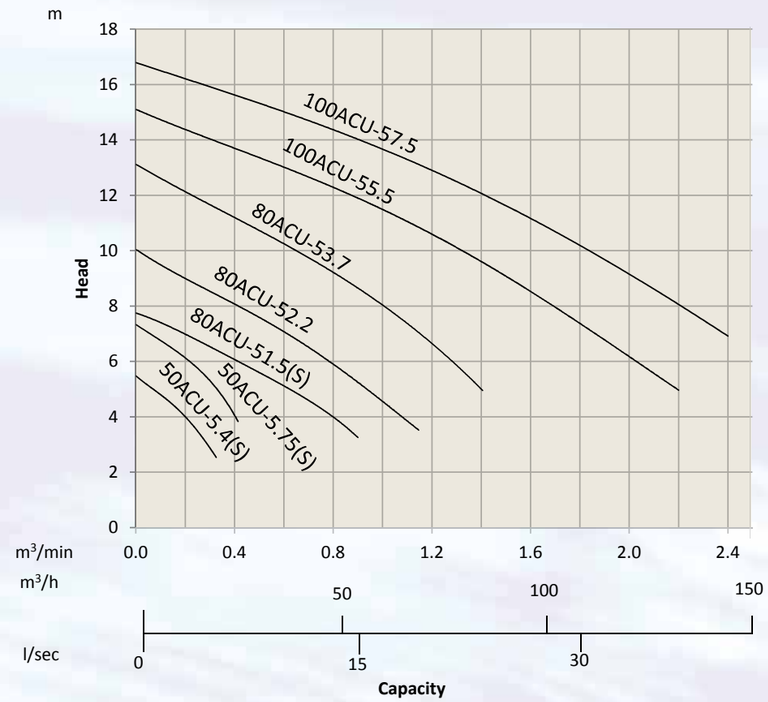
MOTOR

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	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(≥5.5kW) SUS403 (0.4 ~ 3.7kW)
		Cable	VCT / HVCT (5.5kW)
Optional			Float switch (≤1.5kW) Water detector (≥1.5kW) Auto setter

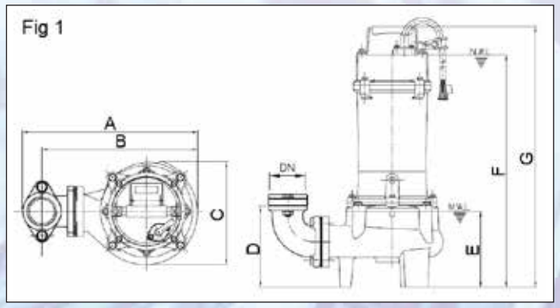
SELECTION CHART

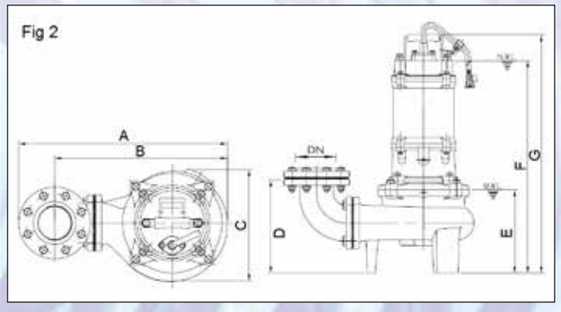


PERFORMANCE SPECIFICATION

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
			0.75	1	Capacitor	**50ACU-5.75S**	0.3	5	50	30
				3	Direct	**50ACU-5.75**	0.3	5	50	29
		80	1.5	1	Capacitor	**80ACU-51.5S**	0.6	5	76	46
				3	Direct	**80ACU-51.5**	0.6	5	76	46
			2.2	3	Direct	**80ACU-52.2**	0.6	7	76	55
			3.7	3	Direct	**80ACU-53.7**	0.6	10	76	63
		100	5.5	3	Direct	**100ACU-55.5**	1	11	100	96
			7.5	3	Direct	**100ACU-57.5**	1	13.5	100	105

DIMENSIONS





Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50ACU-5.4S	1	PF / NPT	347	308	204	160	150	469	526	5000
50ACU-5.4	1	PF / NPT	347	308	204	160	150	469	526	5000
50ACU-5.75S	1	PF / NPT	347	308	204	160	150	469	526	5000
50ACU-5.75	1	PF / NPT	347	308	204	160	150	469	526	5000
80ACU-51.5S	1	PT / NPT	447	393	260	236	234	634	697	8000
80ACU-51.5	1	PT / NPT	447	393	260	236	234	556	620	8000
80ACU-52.2	2	PT / NPT	532	438	288	261	234	579	653	8000
80ACU-53.7	2	PT / NPT	532	438	288	261	234	619	693	8000
100ACU-55.5	2	PT / NPT	615	506	337	310	303	714	813	10000
100ACU-57.5	2	PT / NPT	615	506	337	310	303	754	853	10000

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.

Radial cutter

Cutter ring

- 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.

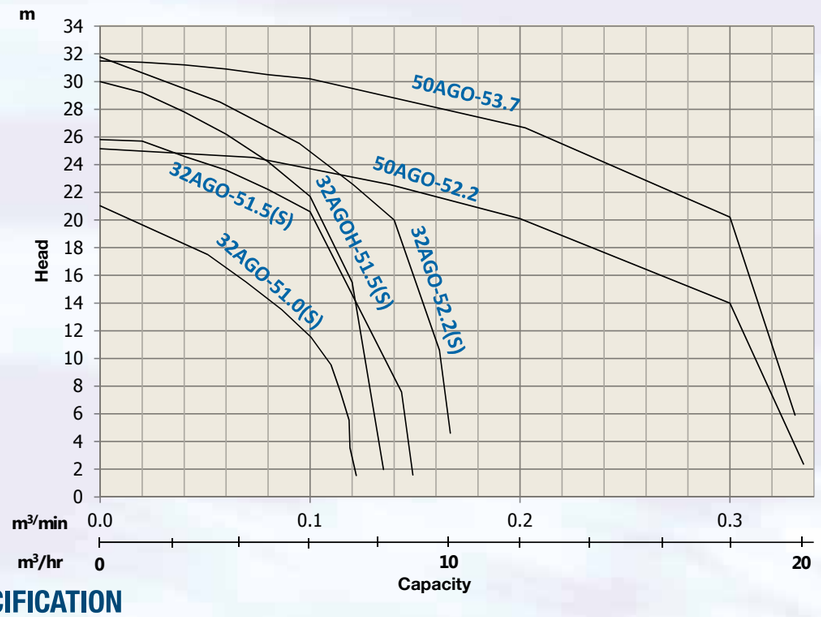
MOTOR

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
		Bearing	Ball type bearing
	Material	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 (≥3.7kW : F Class)
	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	27
				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	32
				1	Capacitor	**32AGOH-51.5S**	0.06	26	36
				3	Direct	**32AGOH-51.5**	0.06	26	32
			2.2	1	Capacitor	**32AGO-52.2S**	0.06	28	38
				3	Direct	**32AGO-52.2**	0.06	29	35
		50	2.2	3	Direct	**50AGO-52.2**	0.2	20	44
			3.7	3	Direct	**50AGO-53.7**	0.2	27	47

DIMENSIONS

Fig 2

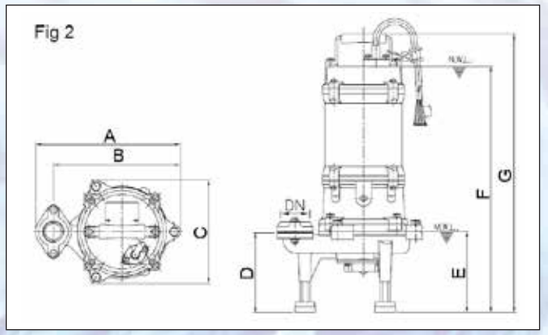
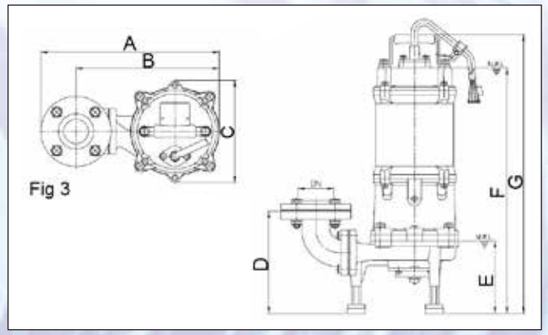


Fig 3



Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
32AGO-51.0S	2	PT / NPT	249	214	177	156	158	498	555	8000
32AGO-51.0	2	PT / NPT	249	214	177	156	158	473	530	8000
32AGO-51.5S	2	PT / NPT	285	250	203	156	158	533	596	8000
32AGO-51.5	2	PT / NPT	285	250	203	156	158	478	541	8000
32AGOH-51.5S	2	PT / NPT	285	250	203	156	158	533	596	8000
32AGOH-51.5	2	PT / NPT	285	250	203	156	158	478	541	8000
32AGO-52.2S	2	PT / NPT	285	250	203	156	158	560	623	8000
32AGO-52.2	2	PT / NPT	285	250	203	156	158	478	541	8000
50AGO-52.2	3	PT / NPT	395	318	226	234	160	521	589	8000
50AGO-53.7	3	PT / NPT	395	318	226	234	160	541	609	8000

ACS

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

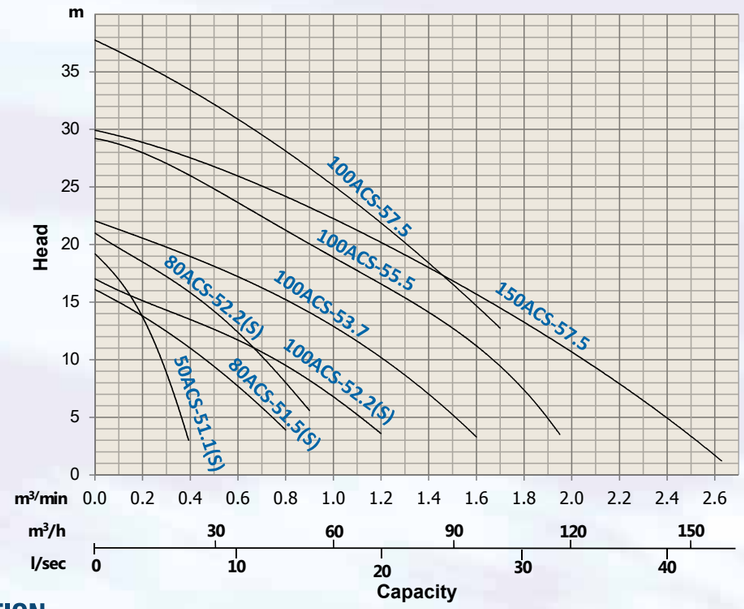
- Standard design featuring : VCT cable and dry motor equipped with thermal Auto Cut prevent motor from over heating.Abrasion resistant double mechanical seals.
- Superior design of hydro motor cooling system ensures the stable performance and extends the life expectancy of the device.

SPECIFICATION

Disc.diameter(mm)			50 · 80 · 100 · 150
Pumping liquid	Liquid temp		0~40°C
	Liquid nature		Agriculture irrigation, Other drainage
	Max.depth		30M
Pump	Structure	Impeller	Enclosed channel
		Mech. seal	Double mechanical seals
		Bearing	Ball type bearing
	Material	Out cover	SUS304
		Upper cover	FC200
		Impeller	Bronze (≤1.1kW), Chrome steel (≥1.5kW)
		Casing	FC200
		Mech. seal	SIC/SIC
Motor	Type		Dry type
	Insulation		B class (F class ≥ 3.7kW)
	Frequency · Pole		50Hz · 2P
	Protector		Auto-cut
	Material	Frame	SUS304 (1.1kW), FC200(≥ 1.5kW)
		Main Shaft	SUS403(≤2.2kW), SUS304(≥ 3.7kW)
		Cable	VCT / HVCT (≥5.5kW)

OPTIONAL OUTLET ACCESSORIES

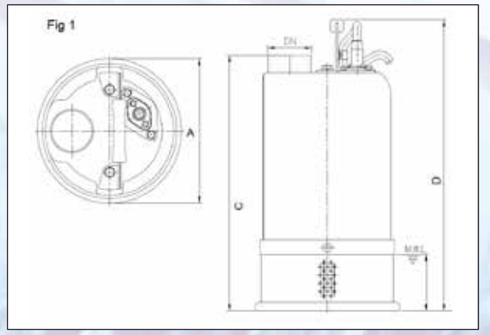
SELECTION CHART

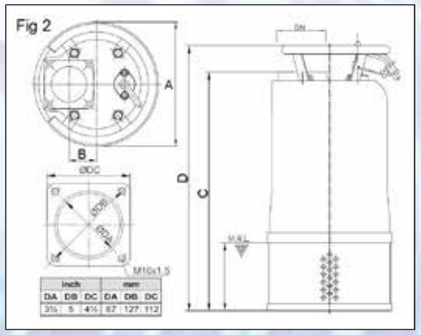


PERFORMANCE SPECIFICATION

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	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	9.5	10	40
				3	Direct	**80ACS-51.5**	0.5	9.5	10	36
			2.2	1	Capacitor	**80ACS-52.2S**	0.5	14	10	45
				3	Direct	**80ACS-52.2**	0.5	14	10	39
		100	2.2	1	Capacitor	**100ACS-52.2S**	0.8	9.5	10	45
				3	Direct	**100ACS-52.2**	0.8	9.5	10	39
			3.7	3	Direct	**100ACS-53.7**	1	12.5	10	44
			5.5	3	Direct	**100ACS-55.5**	1	19	10	75
			7.5	3	Direct	**100ACS-57.5**	1	25	10	80
		150	7.5	3	Direct	**150ACS-57.5**	1.5	17	10	81

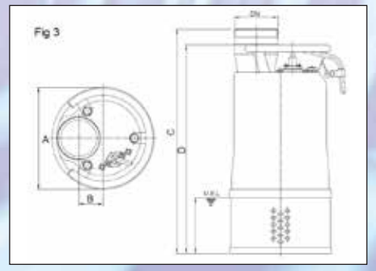
DIMENSIONS





Unit: mm

MODEL	Fig	DN	A	B	C	D	CABLE LENGTH
50ACS-51.1S	1	Female PS 2	210	55	431	482	8000
50ACS-51.1	1	Female PS 2	210	55	372	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
80ACS-52.2S	3	Male PF 3	235	56	578	541	8000
80ACS-52.2	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-57.5	2	150	286	63	550	610	10000



APLS

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.

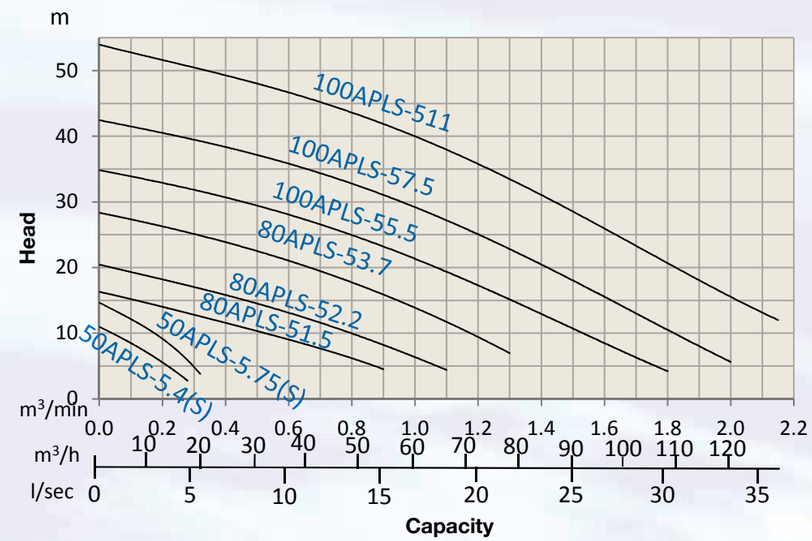
INVESTMENT CASTING

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 · 100
	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
	Cable	VCT
MOTOR	Type	Dry & High-Efficiency Motor
	Insulation	B Class (≥3.7kW: F Class)
	Frequency · Pole	50Hz · 2P
	Protector	Auto-cut (Overheat protector: 0.4kW·1Ph) (MTP & WD ≥11kW)
Optional		Float switch (≤0.75kW) Water detector (≥1.5kW) Auto setter

SELECTION CHARTS



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	**50APLS-5.4S**	**0.12**	7	10	14
				3	Direct	**50APLS-5.4**	**0.12**	7	10	14
			0.75	1	Capacitor	**50APLS-5.75S**	**0.17**	10	10	16
				3	Direct	**50APLS-5.75**	**0.17**	10	10	15
		80	1.5	3	Direct	**80APLS-51.5**	**0.6**	8.5	20	29.5
			2.2	3	Direct	**80APLS-52.2**	**0.6**	12.5	20	32.5
			3.7	3	Direct	**80APLS-53.7**	**0.6**	20.5	20	44.5
			5.5	3	Direct	**80APLS-55.5**	**0.6**	28	20	67
			7.5	3	Direct	**80APLS-57.5**	**0.6**	35.5	20	73
			11	3	Direct	**80APLS-511**	**0.6**	46	20	82
		100	5.5	3	Direct	**100APLS-55.5**	**1**	21.5	20	67
			7.5	3	Direct	**100APLS-57.5**	**1**	29	20	73
			11	3	Direct	**100APLS-511**	**1**	39.5	20	82

DIMENSIONS

Fig 1

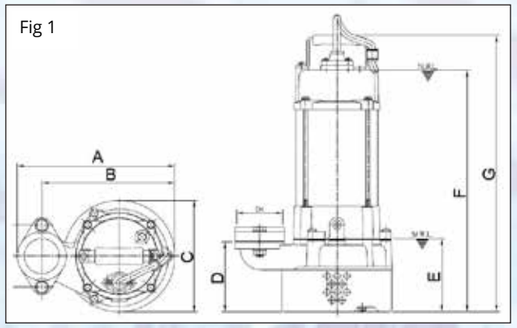
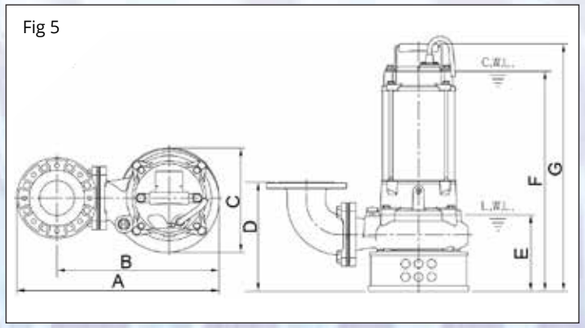


Fig 5



Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APLS-5.4S	1	PF / NPT	244	206	172	108	112	382	435	5000
50APLS-5.4	1	PF / NPT	244	206	172	108	112	382	435	5000
50APLS-5.75S	1	PF / NPT	244	206	172	108	112	382	435	5000
50APLS-5.75	1	PF / NPT	244	206	172	108	112	382	435	5000
80APLS-51.5	1	PF / NPT	390	336	212	217	162	457	520	8000
80APLS-52.2	1	PF / NPT	390	336	212	217	162	457	520	8000
80APLS-53.7	5	PT / NPT	465	373	239	250	176	505	568	8000
80APLS-55.5	5	PT / NPT	528	436	286	271	198	585	684	8000
80APLS-57.5	5	PT / NPT	528	436	286	271	198	585	684	10000
80APLS-511	5	PT / NPT	528	436	286	271	198	625	724	10000
100APLS-55.5	5	PT / NPT	556	451	286	276	198	585	684	8000
100APLS-57.5	5	PT / NPT	556	451	286	276	198	585	684	10000
100APLS-511	5	PT / NPT	556	451	286	276	198	625	724	10000

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.

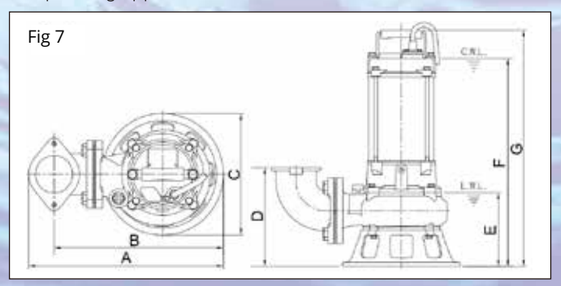
VITON O-RING

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.

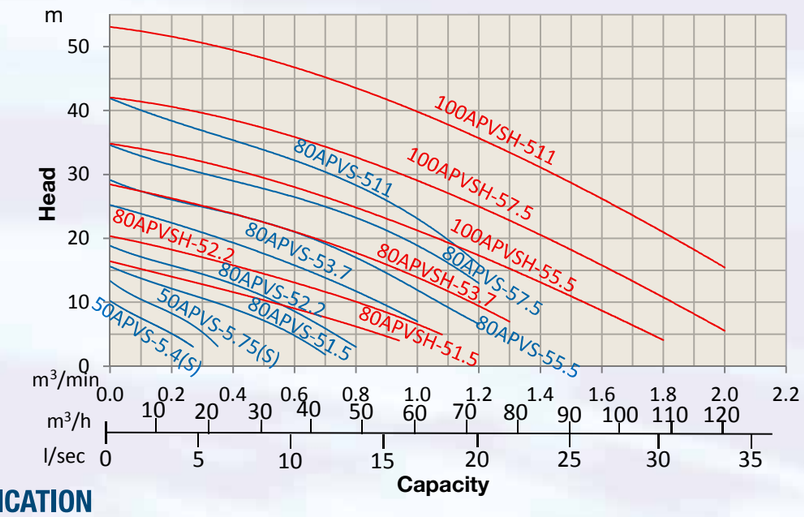
Fig 7



SPECIFICATION

APPLICATION	Disc. Diameter(mm)	50 · 80 · 100
	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 (SUS630 ≥ 11kW)
	Cable	VCT
MOTOR	Type	Dry & High-Efficiency Motor
	Insulation	B Class (≥3.7kW: F Class)
	Frequency · Pole	50Hz · 2P
	Protector	Auto-cut (Overheat protector: 0.4kW·1Ph) (MTP & WD ≥11kW)
Optional		Float switch (≤0.75kW) Water detector (≥1.5kW) Auto setter

SELECTION CHARTS



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	**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
			5.5	3	Direct	**80APVS-55.5**	0.6	21	50	61
			7.5	3	Direct	**80APVS-57.5**	0.6	26	50	67
			11	3	Direct	**80APVS-511**	0.6	33	50	76
			1.5	3	Direct	**80APVSH-51.5**	0.6	8.5	35	28.5
			2.2	3	Direct	**80APVSH-52.2**	0.6	12.5	35	31.5
			3.7	3	Direct	**80APVSH-53.7**	0.6	20.5	32	43
		100	5.5	3	Direct	**100APVSH-55.5**	1	21.5	30	67
			7.5	3	Direct	**100APVSH-57.5**	1	29	30	73
			11	3	Direct	**100APVSH-511**	1	39.5	30	82

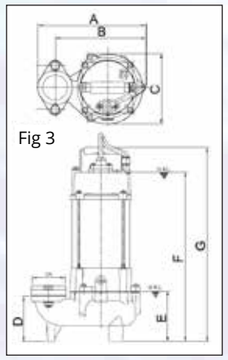


Fig 3

DIMENSIONS

Fig 6

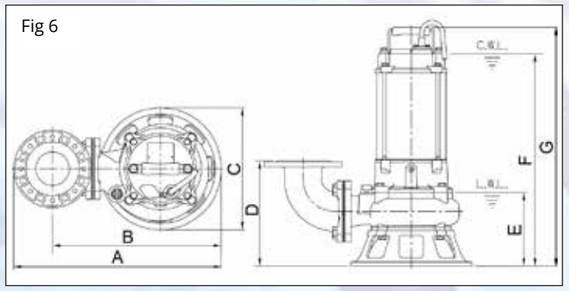
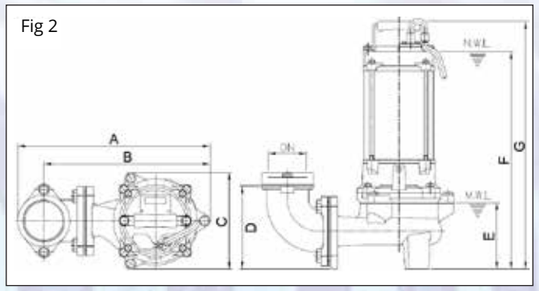


Fig 2



Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
50APVS-5.4S	3	PF / NPT	237	199	153	98	108	378	432	5000
50APVS-5.4	3	PF / NPT	237	199	153	98	108	378	432	5000
50APVS-5.75S	3	PF / NPT	237	199	153	98	108	378	432	5000
50APVS-5.75	3	PF / NPT	237	199	153	98	108	378	432	5000
80APVS-51.5	2	PF / NPT	402	348	202	174	139	454	517	8000
80APVS-52.2	2	PF / NPT	402	348	202	174	139	454	517	8000
80APVS-53.7	4	PT / NPT	476	384	222	203	143	498	561	8000
80APVS-55.5	4	PT / NPT	499	407	258	203	144	558	657	8000
80APVS-57.5	4	PT / NPT	499	407	258	203	144	558	657	10000
80APVS-511	4	PT / NPT	499	407	258	203	144	598	697	10000
80APVSH-51.5	7	PF / NPT	417	363	260	218	163	458	521	8000
80APVSH-52.2	7	PF / NPT	417	363	260	218	163	458	521	8000
80APVSH-53.7	6	PT / NPT	495	403	290	250	176	505	568	8000
80(100)APVSH-55.5	6	PT / NPT	563(591)	471(486)	345	271(276)	198	585	684	8000
80(100)APVSH-57.5	6	PT / NPT	563(591)	471(486)	345	271(276)	198	585	684	10000
80(100)APVSH-511	6	PT / NPT	563(591)	471(486)	345	271(276)	198	625	724	10000

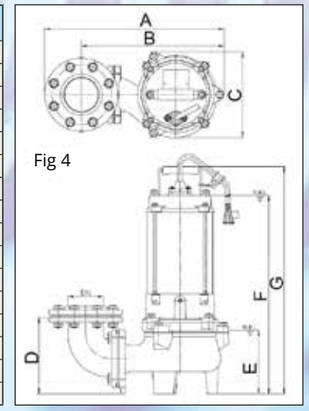


Fig 4

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 handing 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.

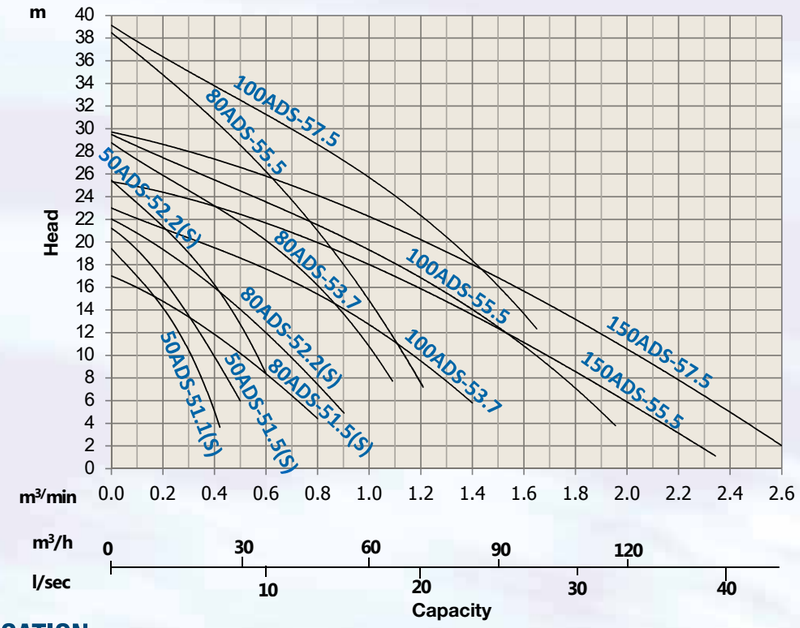
SPECIFICATION

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
	Max.depth		30M	
Pump	Structure	Impeller	Semi-open(50ADS) Enclosed	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	HiCrFC	
		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 ≥1.5kW)	SUS304 (FC200 ≥1.5kW)
		Main Shaft	SUS403 (SUS304 ≥3.7kW)	SUS403 (SUS304 ≥3.7kW)
		Cable	VCT	HVCT (≥5.5kW) or VCT
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	5Output 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	44
				3	Direct	**50ADS-52.2**	0.3	19	10	39
	Enclosed	80	1.5	1	Capacitor	**80ADS-51.5S**	0.5	10	10	40
				3	Direct	**80ADS-51.5**	0.5	10	10	36
			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
	Semi-open		5.5	3	Direct	**80ADS-55.5**	0.5	28	10	72
	Enclosed	100	3.7	3	Direct	**100ADS-53.7**	1	12.5	10	44
			5.5	3	Direct	**100ADS-55.5**	1	19	10	75
			7.5	3	Direct	**100ADS-57.5**	1	25	10	80
		150	5.5	3	Direct	**150ADS-55.5**	1.5	12	10	78
			7.5	3	Direct	**150ADS-57.5**	1.5	17	10	81

DIMENSIONS

Unit: mm

MODEL	Fig	DN	A	B	C	D	E	CABLE LENGTH
50ADS-51.1S	1	Female PS 2	210	160	431	482	85	8000
50ADS-51.1	1	Female PS 2	210	160	372	423	85	8000
50ADS-51.5S	2	50	235	50	465	511	115	8000
50ADS-51.5	2	50	235	50	421	466	115	8000
50ADS-52.2S	2	50	235	50	496	541	115	8000
50ADS-52.2	2	50	235	50	421	466	115	8000
80ADS-51.5S	2	80	235	50	465	511	115	8000
80ADS-51.5	2	80	235	50	421	466	115	8000
80ADS-52.2S	2	80	235	50	496	541	115	8000

Unit: mm

MODEL	Fig	DN	A	B	C	D	E	CABLE LENGTH
80ADS-52.2	2	80	235	50	421	466	115	8000
80ADS-53.7	2	80	235	50	451	496	115	8000
80ADS-55.5	2	80	286	63	550	610	130	10000
100ADS-53.7	2	100	235	50	465	511	130	8000
100ADS-55.5	2	100	286	63	550	610	130	10000
100ADS-57.5	2	100	286	63	550	610	130	10000
150ADS-55.5	2	150	286	63	550	610	130	10000
150ADS-57.5	2	150	286	63	550	610	130	10000

Fig 1

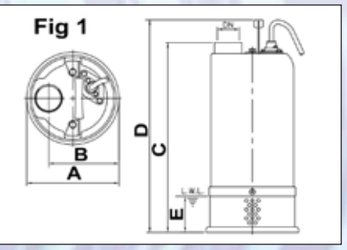
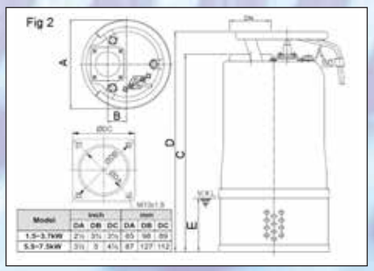


Fig 2



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.

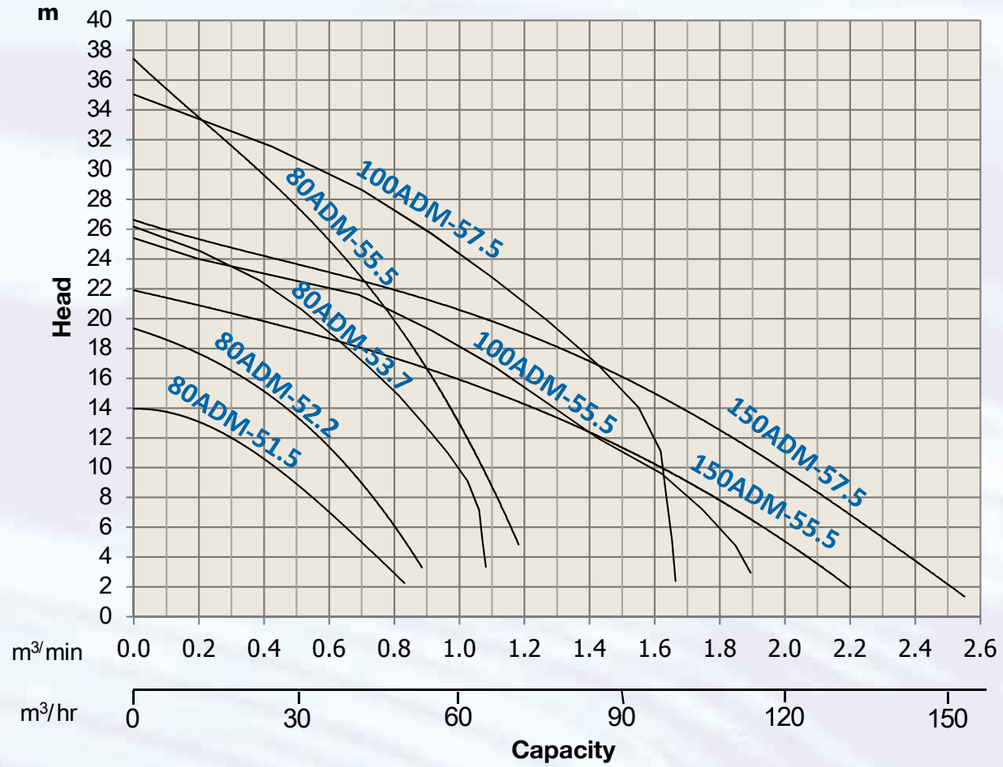
SPECIFICATIONS

APPLICATION	Disc. Diameter(mm)	80 · 100 · 150
	Power(kW)	1.5~7.5
	Liquid temp	0~40°C
	Liquid nature	Delivery of Sandy & Abrasive Liquid. Suitable for Construction or Mining Field
	Max. depth	30M
STRUCTURE	Impeller	Semi-open (80ADM-55.5) Enclosed
	Mech. seal	Double mechanical seals
	Bearing	Ball type bearing
MATERIAL	Out cover	FC200
	Upper cover	FC200
	Frame	FC200
	Impeller	HiCrFC
	Casing	FC200
	Agitator	FCD700
	Mech. seal	SIC / SIC
	Main shaft	SUS403(≤2.2kW), SUS304 (≥3.7kW)
	Cable	VCT or H07RN-F
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



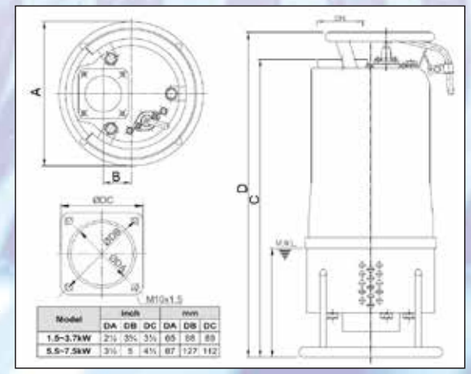
PERFORMANCE SPECIFICATION

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**	0.5	9	10	36
			2.2	3	Direct	**80ADM-52.2**	0.5	13	10	40
			3.7	3	Direct	**80ADM-53.7**	0.5	21	10	45
	Semi-open		5.5	3	Direct	**80ADM-55.5**	0.5	27	10	73
	Enclosed	100	5.5	3	Direct	**100ADM-55.5**	1	18	10	76
			7.5	3	Direct	**100ADM-57.5**	1	24	10	81
		150	5.5	3	Direct	**150ADM-55.5**	1.5	11	10	79
			7.5	3	Direct	**150ADM-57.5**	1.5	16	10	82

DIMENSIONS

Unit: mm

MODEL	DN	A	B	C	D	CABLE LENGTH
80ADM-51.5	80	260	50	502	547	8000
80ADM-52.2	80	260	50	502	547	8000
80ADM-53.7	80	260	50	532	577	8000
80ADM-55.5	80	318	62	623	683	10000
100ADM-55.5	100	318	62	623	683	10000
100ADM-57.5	100	318	62	623	683	10000
150ADM-55.5	150	318	62	623	683	10000
150ADM-57.5	150	318	62	623	683	10000



AAX (100mm～300mm)



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.

SPECIFICATION

Disc.diameter(mm)			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
	Material	Outer cover	SUS304
		Upper cover	FC200
		Impeller	ALBC3 Bronze
		Casing	FC200
		Mech. seal	CA/CE(5.5~15Kw), 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, SUS304(≥5.5kW)
		Main Shaft	SUS304
		Cable	VCT / HVCT

OPTIONAL OUTLET ACCESSORIES

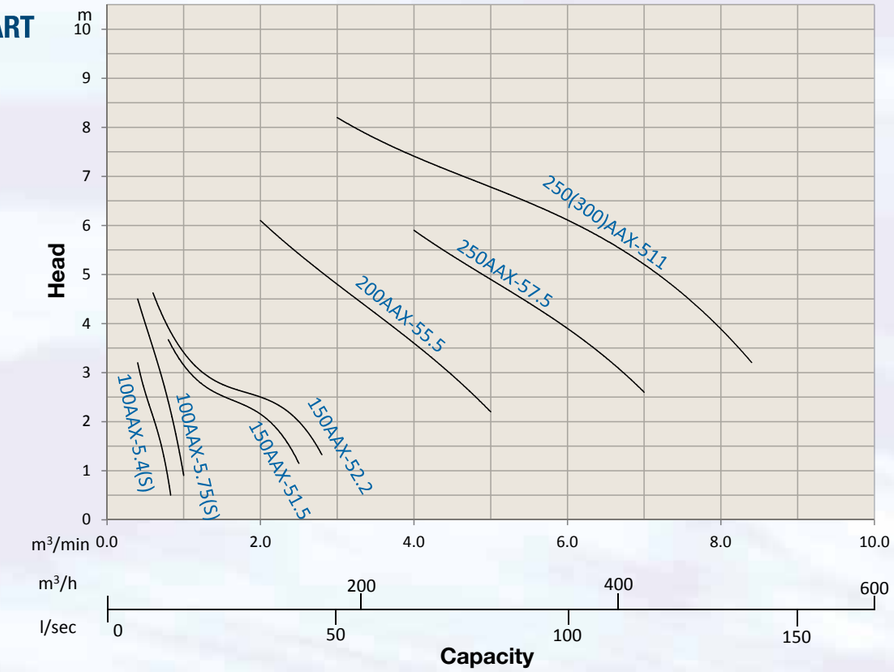

Pipe connection


Outlet thread


Double flange set


Hose connection

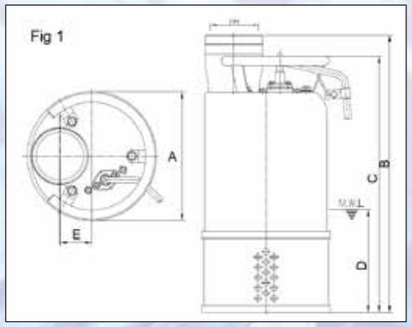
SELECTION CHART

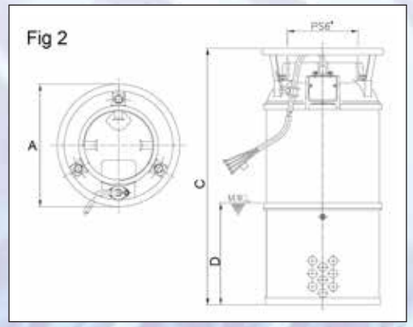


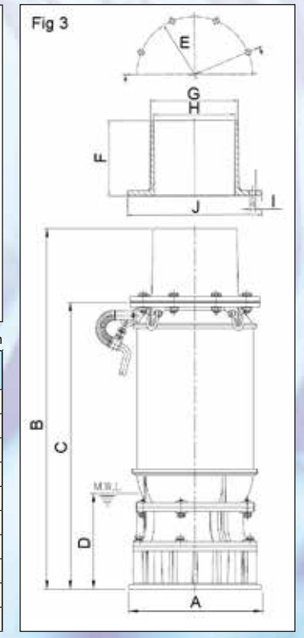
PERFORMANCE SPECIFICATION

Pole P	Impeller Type	Dis. mm	Output kW	Phase φ	Start Method	Model	Capacity m3/min	Head m	Solid passage mm	Weight kg
2	Axial	100	0.4	1	Capacitor	**100AAX-5.4S**	0.7	1.5	10	25
				3	Direct	**100AAX-5.4**	0.7	1.5	10	25
			0.75	1	Capacitor	**100AAX-5.75S**	0.7	3	10	26
				3	Direct	**100AAX-5.75**	0.7	3	10	26
4		150	1.5	3	Direct	**150AAX-51.5**	2	2	20	51
			2.2	3	Direct	**150AAX-52.2**	2	2.5	20	52
		200	5.5	3	Direct	**200AAX-55.5**	3.5	4	23	116
		250	7.5	3	Direct	**250AAX-57.5**	5.5	4	23	157
	Mix	250	11	3	Direct	**250AAX-511**	7	4.5	23	201
		300		3	Direct	**300AAX-511**	7	4.5	23	201

DIMENSIONS







Unit: mm

MODEL	Fig	DN	A	B	C	D	E	F	G	H	I	J	CABLE LENGTH
100AAX-5.4S	1	Male PT 4	225	478	441	200	56	NA	NA	NA	NA	NA	5000
100AAX-5.4	1	Male PT 4	225	478	441	200	56	NA	NA	NA	NA	NA	5000
100AAX-5.75S	1	Male PT 4	225	478	441	200	56	NA	NA	NA	NA	NA	5000
100AAX-5.75	1	Male PT 4	225	478	441	200	56	NA	NA	NA	NA	NA	5000
150AAX-51.5	2	Female PS 6	285	NA	597	300	NA	NA	NA	NA	NA	NA	8000
150AAX-52.2	2	Female PS 6	285	NA	597	300	NA	NA	NA	NA	**NA**	NA	8000
200AAX-55.5	3	200	340	923	733	400	285	185	215	200	**φ15-8**	330	10000
250AAX-57.5	3	250	380	1015	802	500	325	210	266	250	**φ15-8**	370	10000
250AAX-511	3	250	430	1082	862	600	389	220	317	250	**φ15-12**	430	10000
300AAX-511	3	300	430	1082	862	600	389	220	317	300	φ15-12	430	10000

AAXL (550mm~700mm)

APPLICATIONS

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

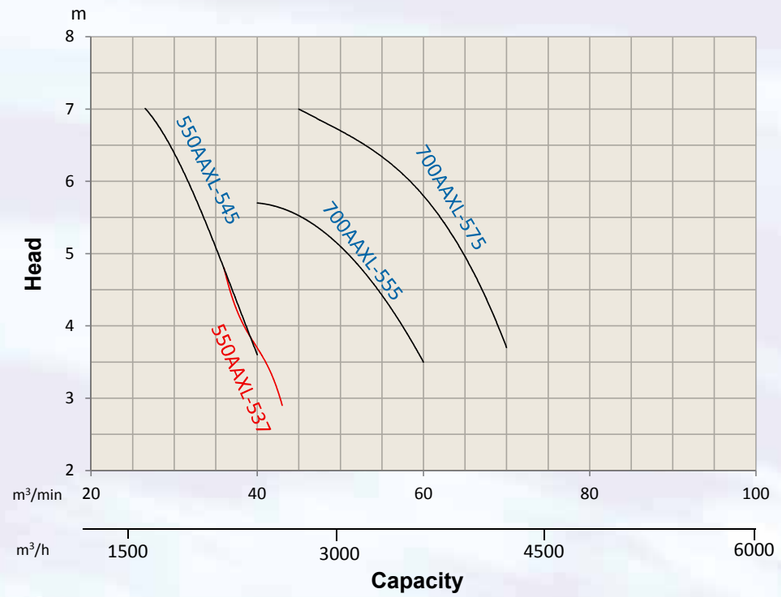
FEATURES

- 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

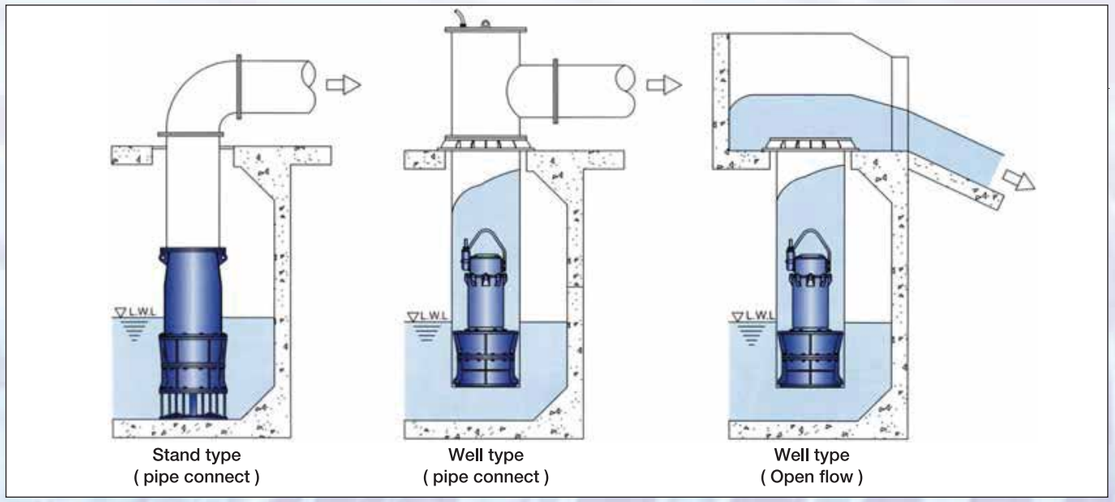
Disc.diameter (mm)			550~700
Pumping liquid	Liquid temp		0~40°C
	Liquid nature		Waste water, Industry drainage, Agriculture irrigation, Aquaculture water
Pump	Structure	Impeller	Axial
		Mech. seal	Double mechanical seals
		Bearing	Ball type bearing
	Material	Upper cover	FC200
		Impeller	SCS13
		Casing	FC200
		Wear ring	SCS13(≤45kW) / ALBC3(≤55kW)
		Mech. seal	SIC/SIC & SIC/SIC
	Protection Device		Water detector in mechanical seal chamber
Motor	Type		Dry type
	Frequency · Pole		50Hz · 8P(37~45kW), 10P(55~75kW)
	Phase Volt.		3φ, 380~460V
	Insulation		F Class (155°C)
	Protection Device		Motor thermal protector
	Material	Frame	FC200
		Shaft	SUS420J2
		Cable	2PNCT or VCT

SELECTION CHART



PERFORMANCE SPECIFICATION

Model	Power HP (kW)	Discharge inch	Phase φ	Start Method	Capacity m³/min	Head m	Well Type Weight (kg)	Stand Type Weight (kg)
550AAXL-537	50(37)	22	3	Y-Δ	38	4	755	1130
550AAXL-545	60(45)	22	3	Y-Δ	31	6	755	1130
700AAXL-555	75(55)	28	3	Y-Δ	60	3.5	1530	2060
700AAXL-575	100(75)	28	3	Y-Δ	60	5	1600	2130



Stand type (pipe connect)

Well type (pipe connect)

Well type (Open flow)

DIMENSIONS

Unit: mm

Well Type	Fig	DN	A	B	C	D	E	CABLE LENGTH
550AAXL-537	2	550	803	1380	330	300	φ780	10000
550AAXL-545	2	550	803	1380	330	300	φ780	10000
700AAXL-555	2	700	870	2150	356	400	φ870	10000
700AAXL-575	2	700	870	2150	356	400	φ870	10000

Unit: mm

Well Type	Fig	DN	A	B	C	D	E	F	G	CABLE LENGTH
550AAXL-537	1	550	803	1960	1120	330	φ720	665	φ27-20	10000
550AAXL-545	1	550	803	1960	1120	330	φ720	665	φ27-20	10000
700AAXL-555	1	700	930	2720	1420	420	φ875	820	φ27-24	10000
700AAXL-575	1	700	930	2720	1420	420	φ875	820	φ27-24	10000

Fig 1

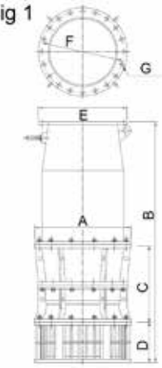
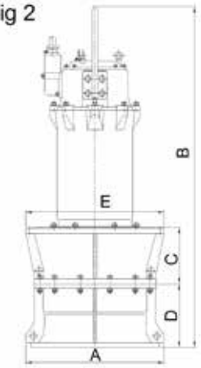


Fig 2



SUMP

● APPLICATIONS

* Water Tank Circulation;
* Water recycle in pool & fountain;
* Light duty water supply & drainage;
* Commercial Tank Beautification

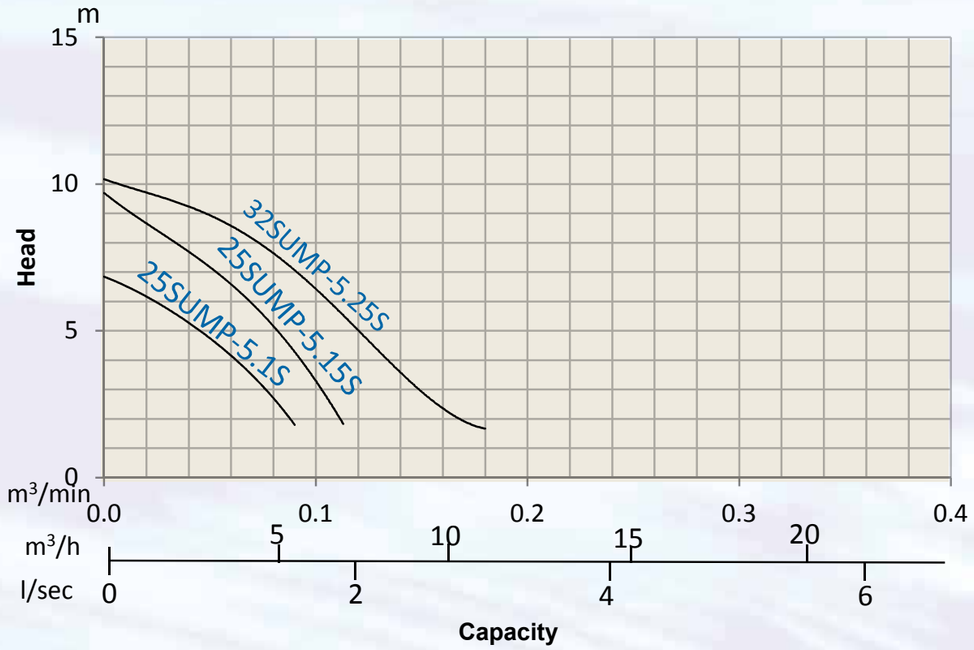
● FEATURES

* 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

■ 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	Impeller	Semi-open	
		Mech. seal	Single mechanical seals	
		Bearing	Ball type bearing	
	Material	Upper cover	ASA	PP
		Impeller	ABS	PA
		Casing	ASA	PP
		Mech. seal	CA/CE	SiC/SiC
Motor	Type		Dry type	
	Insulation		B class	
	Frequency · Pole		50Hz · 2P	
	Protector		Overheat protector	
	Material	Frame	ADC12	SUS316
		Main Shaft	SUS410	
		Cable	H05RN-F	
Optional			Float switch	

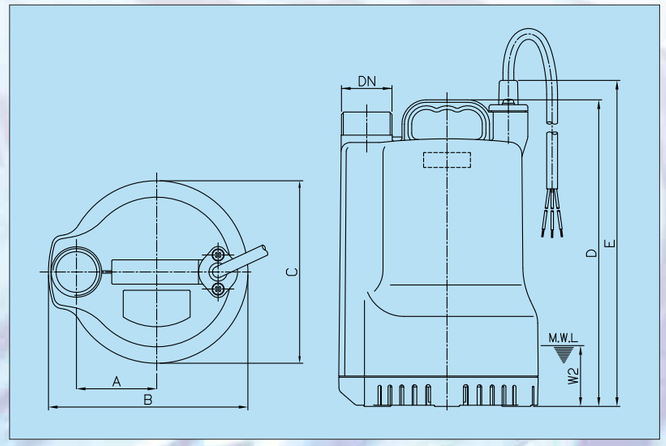
■ SELECTION CHART



■ 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	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

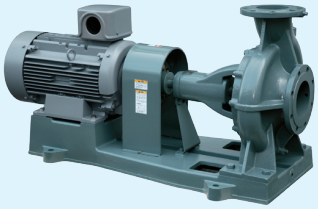
■ DIMENSIONS



Unit: mm

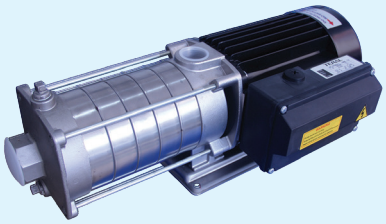
MODEL	DN	A	B	C	D	E	W2	CABLE LENGTH
25SUMP-5.1S	PF 1	68	164	153	240	256	50	3000
25SUMP-5.15S	PF 1	68	164	153	240	256	50	3000
32SUMP-5.25S	PF 1.5	66	164	150	252	268	50	3000

TERAL
Pumps and Fans



End-suction Pumps

In-Line Pumps



Horizontal Multistage Pumps

Horizontal Split Case Pumps

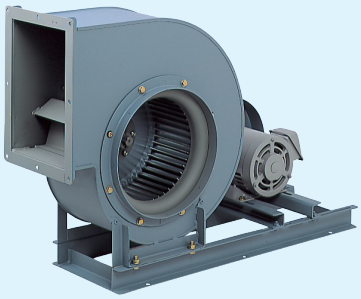
Freshwater &
Sewage Submersible Pumps

Variable Speed Systems

Vertical Multistage Pumps

Coolant Pumps

Ring Blowers



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