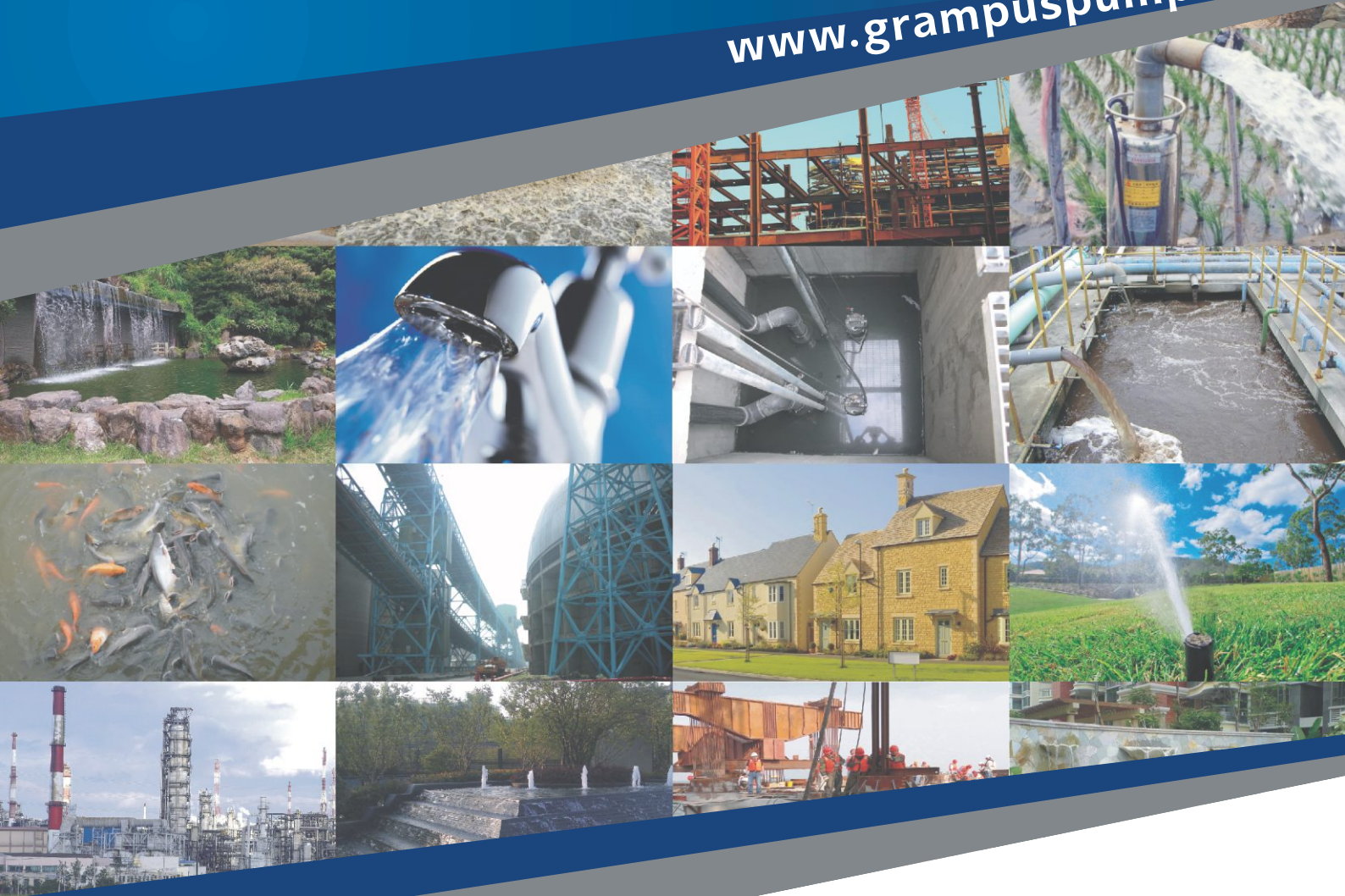




Integrity
Innovation
Improvement

www.grampuspump.com



HENG LONG ELECTRIC CO., LTD.

CAT-E6-CORP1705



■ PROFILE

Heng Long Electric is one of the leading manufacturers of pumps in Taiwan with 3 offices across the globe, including head office in Kaohsiung. The company also has cooperated company in EU and China carrying out work in sales and services. With more than 30 years of experience in designing, researching and developing in pumps product, “Grampus” is the best recognition of our effort. From material selection to order delivery, we monitor closely in every process to ensure our pumps are in excellence state before handed to our customers.

Our product provides wide scope of applications to meet the market demands nowadays. The application includes wastewater treatment, farm irrigation, aquaculture, daily home use and etc.

■ Past History

- 1981 founded Heng Long Co., Ltd.; dedicated in R&D, designing and manufacturing.
- 2000 founded Taiwan Pump Co., Ltd. for expanding operation and markets in Taiwan.

■ Quality Policy

Quality is not only always our supreme spirit to perform and maintain, but also it is our mission as well.

■ Business Thought

- **Integrity** is the foundation of culture and business; all activities are performed based upon sincerity.
- **Innovation** is the key point of growth and development; the operation system of entire organization is based on the innovation.
- **Improvement** is the product performance and working process, by non-stopping improvement in which is able to achieve final organizational goals.



Design, Manufacture, Installation, Maintenance and Sales of Various Submersible Pumps.



- UKAS ISO 9001:2008 INTERNATIONAL QUALITY SYSTEM IN UK
- CNS NO. 8080 APPROVAL OF PRODUCT QUALITY IN TAIWAN
- CE APPROVAL OF EURO

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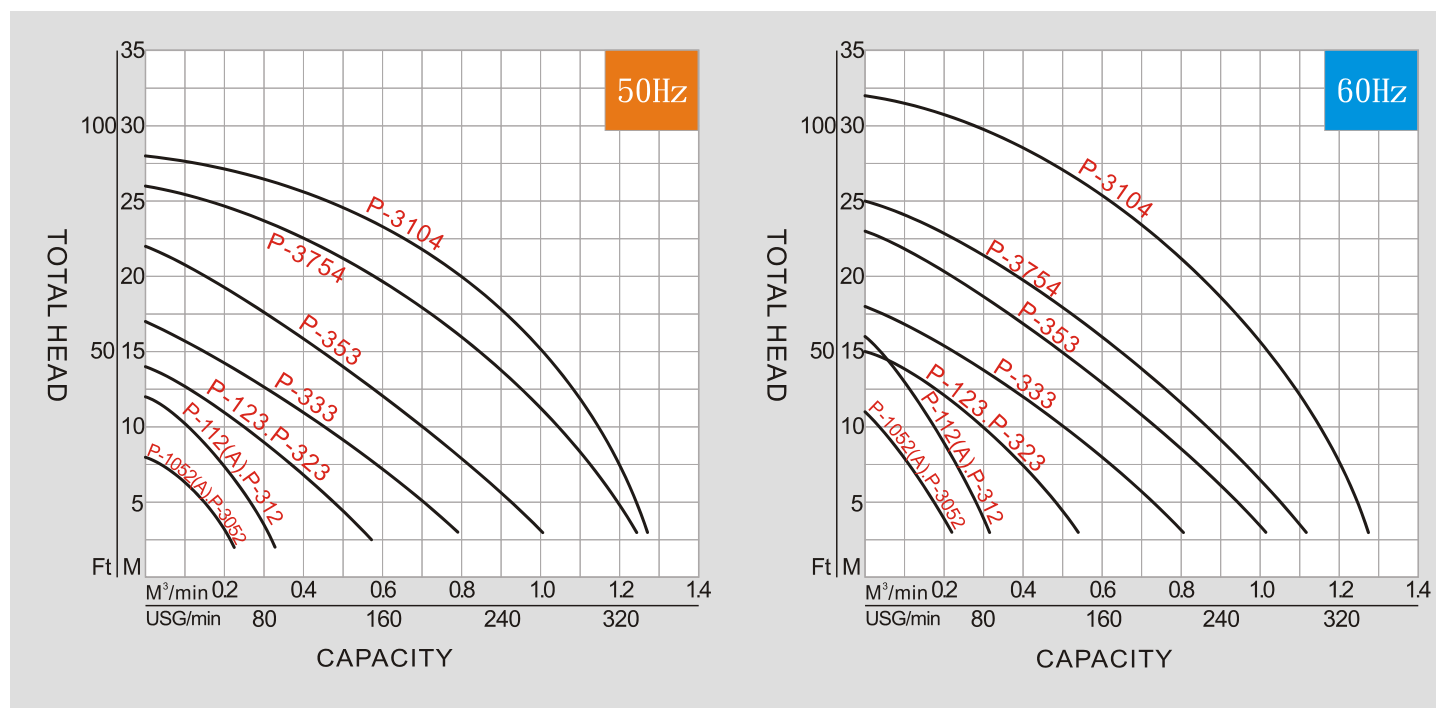
P-333
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P-3754
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PERFORMANCE CURVE



SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

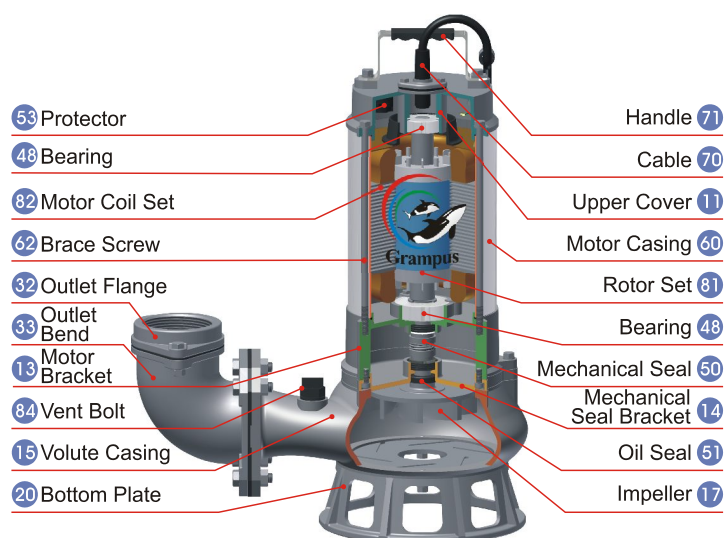
Type	Frequency	Phase	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head	Max.Flow		P Weight	TUP-P Weight	Solid Passage
TYPE	Hz	PH	HP	KW	Inch	mm	P/rpm	M	M	M³/min	M	M	M³/min	M³/min	KG	KG	mm
TUS-P-1052(A)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450	5 M	6 M	0.15	0.15	8 M	11M	0.25	0.28	35
TUS-P-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450	5 M	6 M	0.15	0.15	8 M	11M	0.25	0.28	35
TUS-P-112(A)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450	8 M	8 M	0.18	0.22	12M	16M	0.35	0.35	35
TUS-P-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450	8 M	8 M	0.18	0.22	12M	16M	0.35	0.35	35
TUS-P-123	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450	9 M	10M	0.30	0.30	14M	15M	0.65	0.60	40
TUS-P-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450	9 M	10M	0.30	0.30	14M	15M	0.65	0.60	40
TUS-P-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450	11M	12M	0.40	0.40	17M	18M	0.90	0.90	45
TUS-P-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450	14M	15M	0.50	0.50	22M	23M	1.10	1.10	40
TUS-P-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450	16M	17M	0.80	0.60	26M	25M	1.30	1.20	50
TUS-P-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450	20M	20M	0.80	0.85	28M	32M	1.30	1.30	50



APPLICATION

1. Wastewater lift station, municipal wastewater treatment plant.
2. Building wastewater treatment system.
3. Piggery excrement, animal & poultry farm.
4. School, hospital, community wastewater treatment system.
5. Food, paper, mining, textile, leather industry wastewater treatment system.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm · 80mm · 100mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Available to deal with wastewater of building, sewer and industrial wastewater of food, paper, mining, textile, leather, dyeing and metal.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	SCS14
		Bearing	Heavy-duty bearing
		Impeller	SCS14
		Volute Casing	SCS14
		Motor Bracket	SCS14
		Mechanical Seal Bracket	SCS14
		Strainer	½-1HP:SUS-304
		Bottom Plate	2-10HP:SCS14
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
	Automatic lifting frame device		SCS13
Motor	Type	Type	Submersible dry type
		Insulation class	B class (130°C) / F class (7½-10HP)
		Inner protector	Auto Reset Motor Protector
	Material	Casing	SUS-316
		Main Shaft	SUS-316
		Cable	Standard VCT / Optional

*Spare parts and material of pump could be made by request.

B-1052(A)
B-3052
B-112(A)
B-312



B-113
B-313



B-123



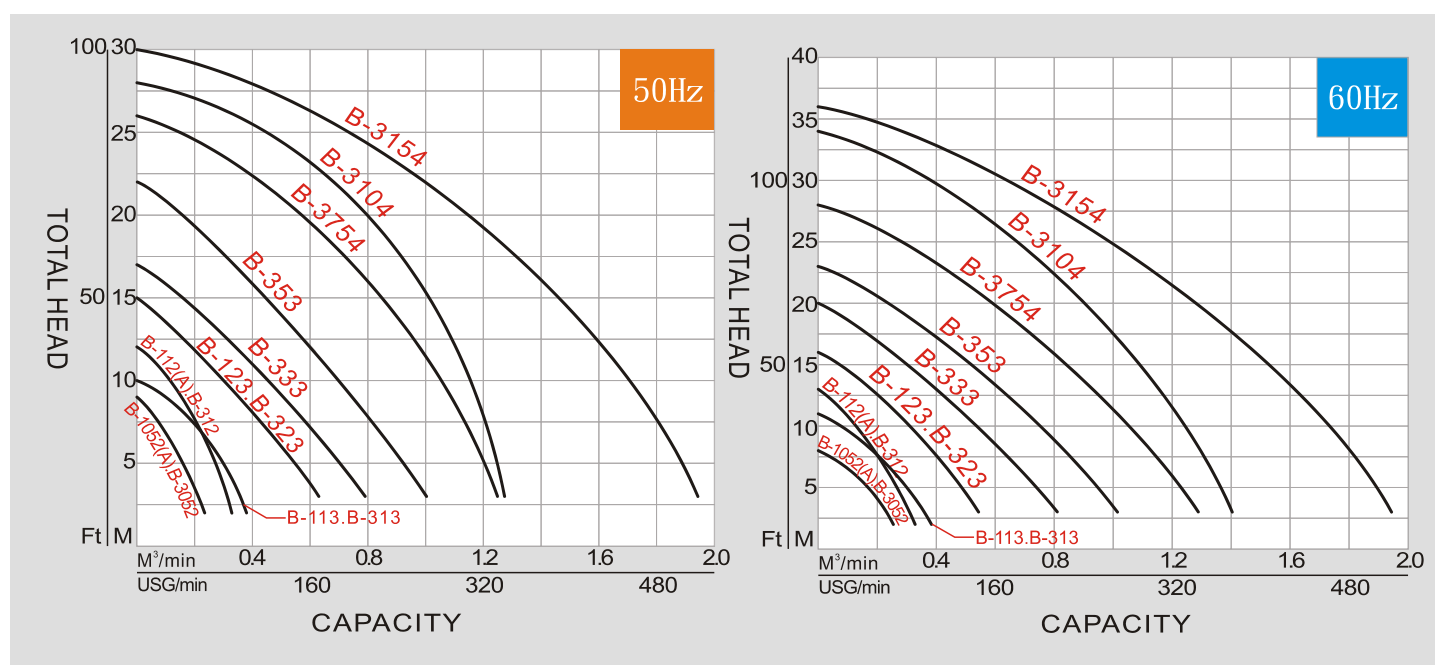
B-323
B-333
B-353



B-3754
B-3104
B-3154



PERFORMANCE CURVE



SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Type	Frequency		Phase	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		B Weight	TOS-B Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG	KG	mm
TOS-B-1052(A)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450	5 M	5 M	0.16	0.17	9 M	8 M	0.27	0.29	18	27	35
TOS-B-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450	5 M	5 M	0.16	0.17	9 M	8 M	0.27	0.29	17	26	35
TOS-B-112(A)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450	8 M	8 M	0.19	0.19	12M	13M	0.35	0.36	20	29	35
TOS-B-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450	8 M	8 M	0.19	0.19	12M	13M	0.35	0.36	20	29	35
B-113	50	60	1Ø	1	0.75	3"	80	2P / 2850 / 3450	5 M	5 M	0.30	0.30	10M	11M	0.41	0.42	21		35
B-313	50	60	3Ø	1	0.75	3"	80	2P / 2850 / 3450	5 M	5 M	0.30	0.30	10M	11M	0.41	0.42	21		35
TOS-B-123	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450	10M	10M	0.30	0.31	15M	16M	0.65	0.61	35	55	40
TOS-B-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450	10M	10M	0.30	0.31	15M	16M	0.65	0.61	34	54	40
TOS-B-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450	11M	13M	0.40	0.40	17M	20M	0.90	0.90	41	61	45
TOS-B-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450	14M	15M	0.50	0.52	22M	23M	1.10	1.10	45	65	40
TOS-B-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450	16M	18M	0.80	0.70	26M	28M	1.30	1.36	55	75	50
TOS-B-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450	20M	20M	0.80	0.90	28M	34M	1.30	1.45	60	80	50
TOS-B-3154	50	60	3Ø	15	11	4"	100	2P / 2850 / 3450	22M	25M	1.00	1.00	30M	36M	2.00	2.00	75	95	50

*B series 2、3、5 HP models, the choice of single wing semi-open impeller is at option.

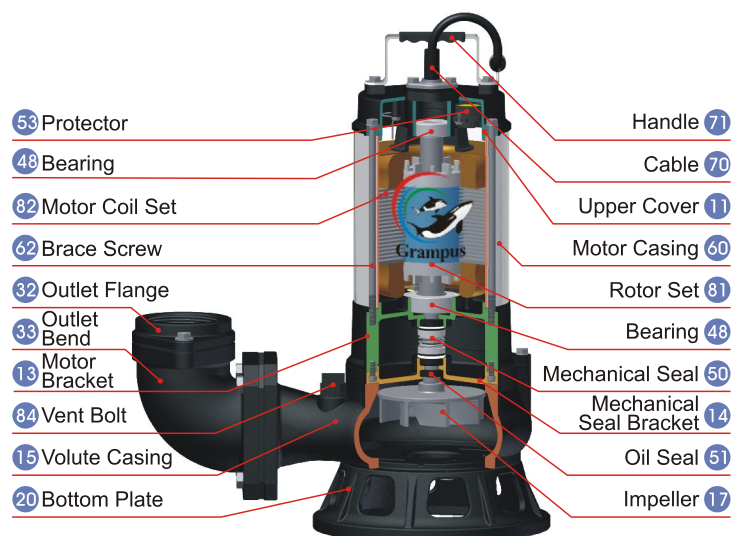


Non-Clog Sewage Submersible Pump

APPLICATION

1. Wastewater lift station, municipal wastewater treatment plant.
2. Building wastewater treatment system.
3. Piggery excrement, animal & poultry farm.
4. School, hospital, community wastewater treatment system.
5. Food, paper, mining, textile, leather industry wastewater treatment system.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm · 80mm · 100mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Available to deal with wastewater of building, sewer and industrial wastewater of food, paper, mining, textile, leather, dyeing and metal.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200
		Volute Casing	FC-200
		Bottom Plate	1/2-1HP:Engineering Strengthen Fiber Resin(STD) 2-15HP:FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon/Ceramic
		Pump Side	Silicon Carbide/Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		B class (130°C) / F class (155°C)
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410/SUS420
		Cable	Standard VCT/Optional

*Spare parts and material of pump could be made by request.

BV-1052
BV-3052
BV-112
BV-312



BV-122
BV-322



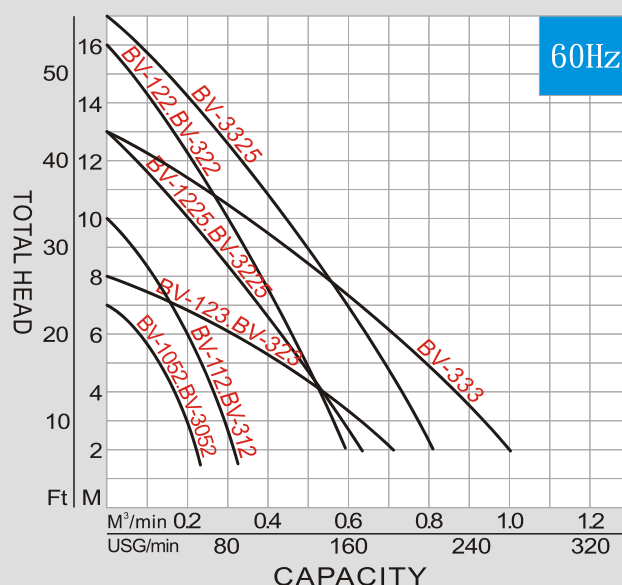
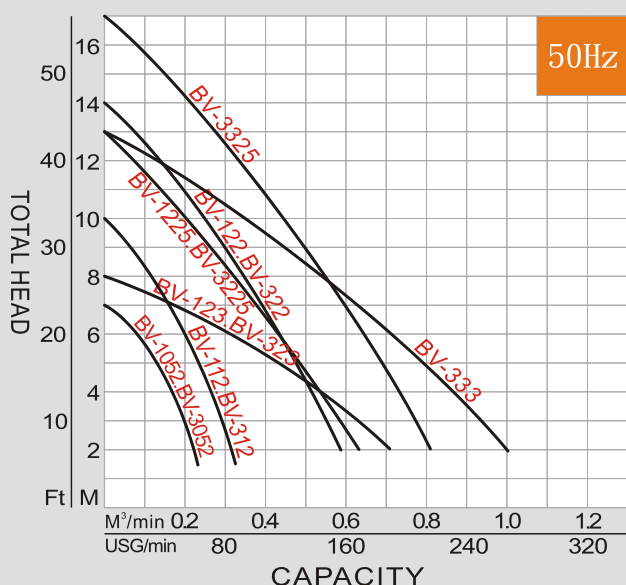
BV-1225
BV-3225



BV-123
BV-323
BV-333



PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Caliber		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		BV Weight	TOS-BV Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	KG	mm
TOS-BV-1052	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450		4.5M	4.5M	0.15	0.15	7 M	7 M	0.25	0.25	16.5	26.5	50
TOS-BV-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450		4.5M	4.5M	0.15	0.15	7 M	7 M	0.25	0.25	15	25	50
TOS-BV-112	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		6 M	6 M	0.20	0.20	10M	10M	0.35	0.35	18.5	28.5	50
TOS-BV-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		6 M	6 M	0.20	0.20	10M	10M	0.35	0.35	17.5	27.5	50
TOS-BV-122	50	60	1Ø	2	1.5	2"	50	2P / 2850 / 3450		9 M	10M	0.30	0.30	14M	16M	0.65	0.65	35	55	50
TOS-BV-322	50	60	3Ø	2	1.5	2"	50	2P / 2850 / 3450		9 M	10M	0.30	0.30	14M	16M	0.65	0.65	31.5	51.5	50
TOS-BV-1225	50	60	1Ø	2	1.5	2.5"	65	2P / 2850 / 3450		8.4M	8.4M	0.30	0.30	13M	13M	0.72	0.72	36	56	65
TOS-BV-3225	50	60	3Ø	2	1.5	2.5"	65	2P / 2850 / 3450		8.4M	8.4M	0.30	0.30	13M	13M	0.72	0.72	32	52	65
TOS-BV-123	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		5.3M	5.3M	0.40	0.40	8 M	8 M	0.84	0.84	38	58	80
TOS-BV-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		5.3M	5.3M	0.40	0.40	8 M	8 M	0.84	0.84	34	54	80
TOS-BV-3325	50	60	3Ø	3	2.2	2.5"	65	2P / 2850 / 3450		12.6M	12.6M	0.30	0.30	17M	17M	0.87	0.87	36	56	65
TOS-BV-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		9.5M	9.5M	0.40	0.40	13M	13M	1.10	1.10	38	58	80

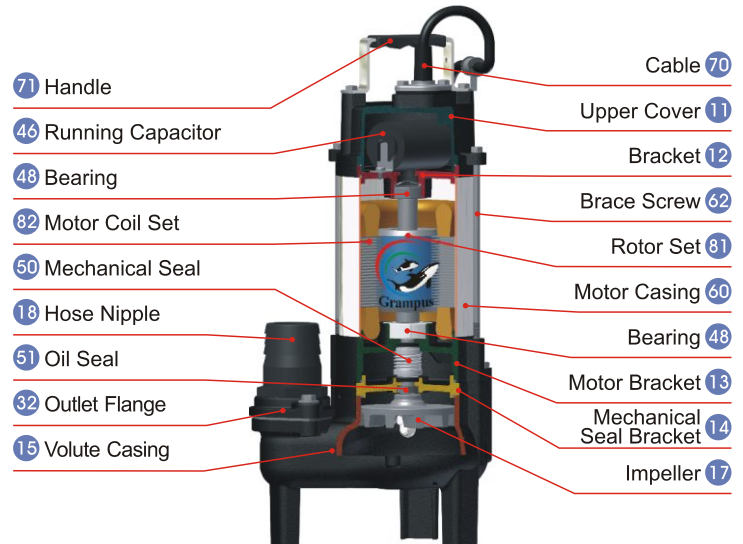


Non-Clog Sewage Submersible Pump (Maximum Solid Passage 50 / 65 / 80mm)

APPLICATION

1. Wastewater lift station, municipal wastewater treatment plant.
2. Building wastewater treatment system.
3. Piggery excrement, animal & poultry farm.
4. School, hospital, community wastewater treatment system.
5. Food, paper, mining, textile, leather industry wastewater treatment system.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm · 65mm · 80mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Available to deal with wastewater of building, sewer and industrial wastewater of food, paper, mining, textile, leather, dyeing and metal.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		B class (130°C)
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS420
	Cable		Standard VCT / Optional

*Spare parts and material of pump could be made by request.

AS-112
AS-312



AS-123
AS-323



AS-333
AS-353



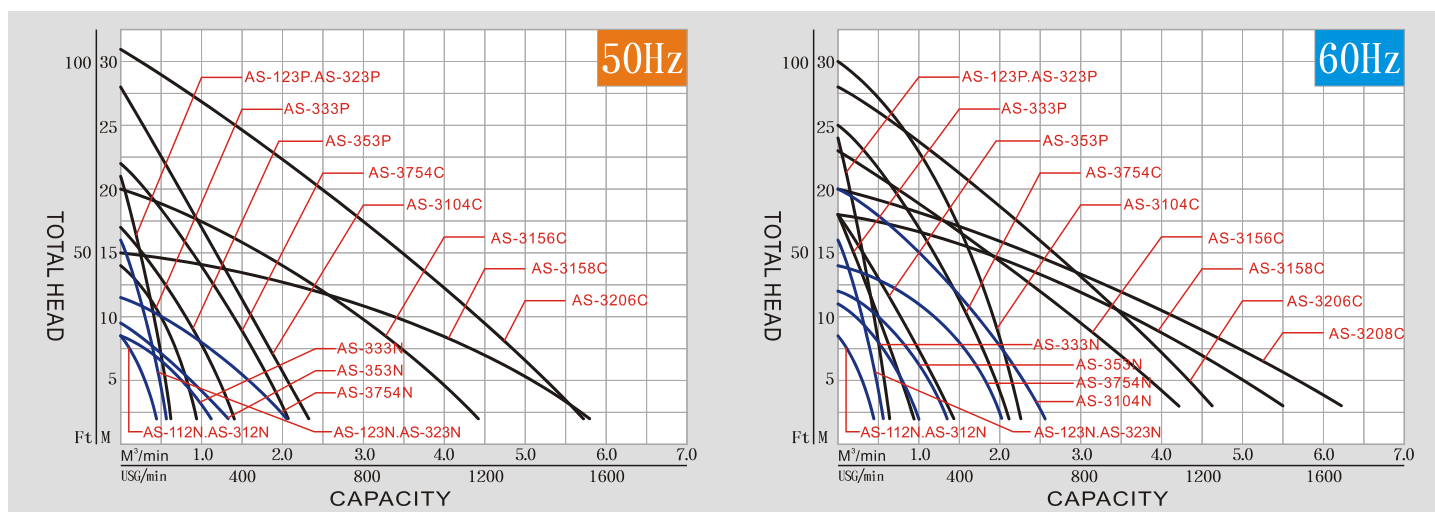
AS-3754
AS-3104



AS-3156
AS-3158
AS-3206
AS-3208



PERFORMANCE CURVE



SPECIFICATION

Model	Type	Frequency	Phase	Start Method	Power	Caliber	Pole/Rotation	Std.Head	Std.Flow	Max.Head	Max.Flow	AS Weight	TOS-AS Weight	Solid Passage
Impeller	TYPE	Hz	PH		HP KW	Inch mm	P/rpm	M	M³/min	M	M³/min	KG	KG	mm
	TOS-AS-123P	50	60	1Ø	Direct	2 1.5	3" 80	2P / 2850 / 3450	7 M 8 M	0.5 0.5	21M 24M	0.65 0.78	40 60	32
	TOS-AS-323P	50	60	3Ø	Direct	2 1.5	3" 80	2P / 2850 / 3450	7 M 8 M	0.5 0.5	21M 24M	0.65 0.78	38 58	32
	TOS-AS-333P	50	60	3Ø	Direct	3 2.2	3" 80	4P / 1425 / 1725	10M 10M	0.5 0.5	14M 18M	1.00 1.21	72 92	50
	TOS-AS-353P	50	60	3Ø	Direct	5 3.7	3" 80	4P / 1425 / 1725	13M 13M	0.5 0.5	17M 18M	1.50 1.58	76 96	70
	TOS-AS-3754C	50	60	3Ø	Direct	7½ 5.5	4" 100	4P / 1425 / 1725	14M 17M	1.0 1.0	22M 25M	2.20 2.23	145 165	48
	TOS-AS-3104C	50	60	3Ø	Direct	10 7.5	4" 100	4P / 1425 / 1725	17M 23M	1.0 1.0	28M 30M	2.50 2.32	150 170	48
	TOS-AS-3156C	50	60	3Ø	Y-Δ	15 11	6" 150	4P / 1425 / 1725	12M 12M	2.5 2.5	20M 23M	4.70 4.70	265 340	70
	TOS-AS-3158C	50	60	3Ø	Y-Δ	15 11	8" 200	4P / 1425 / 1725	7 M 7 M	4.5 4.5	15M 18M	6.17 6.17	270 360	80
	TOS-AS-3206C	50	60	3Ø	Y-Δ	20 15	6" 150	4P / 1425 / 1725	20M 16M	2.5 2.5	31M 28M	6.00 5.00	280 355	70
	TOS-AS-3208C	50	60	3Ø	Y-Δ	20 15	8" 200	4P / --- / 1725	9 M	4.5	20M	6.95	285 375	80
	TOS-AS-112N	50	60	1Ø	Direct	1 0.75	2" 50	4P / 1425 / 1725	5 M 5 M	0.3 0.3	8.5M 8.5M	0.50 0.50	34 44	50
	TOS-AS-312N	50	60	2Ø	Direct	1 0.75	2" 50	4P / 1425 / 1725	5 M 5 M	0.3 0.3	8.5M 8.5M	0.50 0.50	32 42	50
	TOS-AS-123N	50	60	1Ø	Direct	2 1.5	3" 80	2P / 2850 / 3450	10M 10M	0.3 0.3	16M 16M	0.60 0.60	40 60	45
	TOS-AS-323N	50	60	3Ø	Direct	2 1.5	3" 80	2P / 2850 / 3450	10M 10M	0.3 0.3	16M 16M	0.60 0.60	38 58	45
	TOS-AS-333N	50	60	3Ø	Direct	3 2.2	3" 80	4P / 1425 / 1725	6 M 8 M	0.6 0.5	8.5M 11M	1.30 1.18	71 91	57
	TOS-AS-353N	50	60	3Ø	Direct	5 3.7	3" 80	4P / 1425 / 1725	6 M 10M	0.7 0.5	9.5M 12M	1.60 1.45	75 95	42
	TOS-AS-3754N	50	60	3Ø	Direct	7½ 5.5	4" 100	4P / 1425 / 1725	8 M 11M	1.0 1.0	11.5M 14M	2.30 2.12	143 163	65
	TOS-AS-3104N	50	60	3Ø	Direct	10 7.5	4" 100	4P / --- / 1725	15M	1.0	20M	2.68	148 168	60

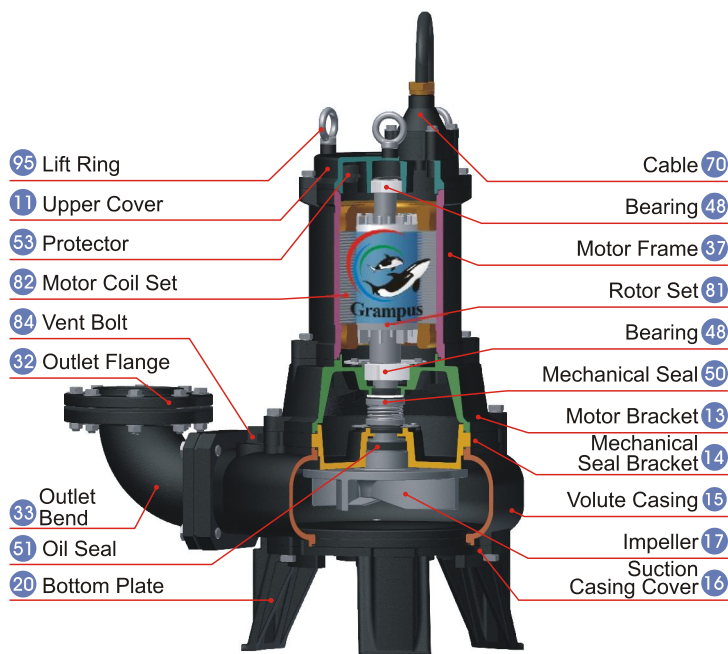


Apparatus Use Sewage Submersible Pump

APPLICATION

1. Building wastewater treatment system, sewage treatment plant, community market, sanitary sewer.
2. Drainage wastewater from paper industry, dyeing industry, food-stuff industry, leather industry and iron and steel industry.
3. Fishery, animal husbandry, dairy farm, piggery, fecal sewage tank and industry water supply.
4. Other sewage or sump treatment system.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Caliber			50 · 80 · 100 · 150 · 200(mm)	
Coating			Epoxy	
Liquid	Temperature		0°C~40°C (32°F~104°F)	
	Application		Drainage of wastewater of building, farming, animal husbandry, Industry and sewer.	
	The lowest depth		▽30 M	
	Pump	Structure	Impeller	Semi-open 、Channel 、Vortex Impeller
Seal			Dual Mechanical Seal	
Material		Upper Cover		FC-200
		Bearing		Heavy-duty bearing
		Impeller		FCD-450
		Volute Casing		FC-200
		Suction Casing Cover		FC-200
		Bottom Plate		FC-200
		Seal	Lubricant	ISO VG. # 32
			Motor Side	Carbon／Ceramic
			Pump Side	Silicon Carbide／Silicon Carbide
			Inner Protector	Below 15HP models are optional
Motor	Type		Submersible dry type	
	Insulation class		F class (155°C)	
	Inner protector		1-10HP:Auto Reset Motor Protector 15-20HP:Miniature Thermal Protector	
	Material	Casing	FC-200	
		Main Shaft	SUS-410／SUS420	
		Cable	Standard VCT／Optional	

*Spare parts and material of pump could be made by request.

BS-1052
BS-3052
BS-112
BS-312



BS-123
BS-323



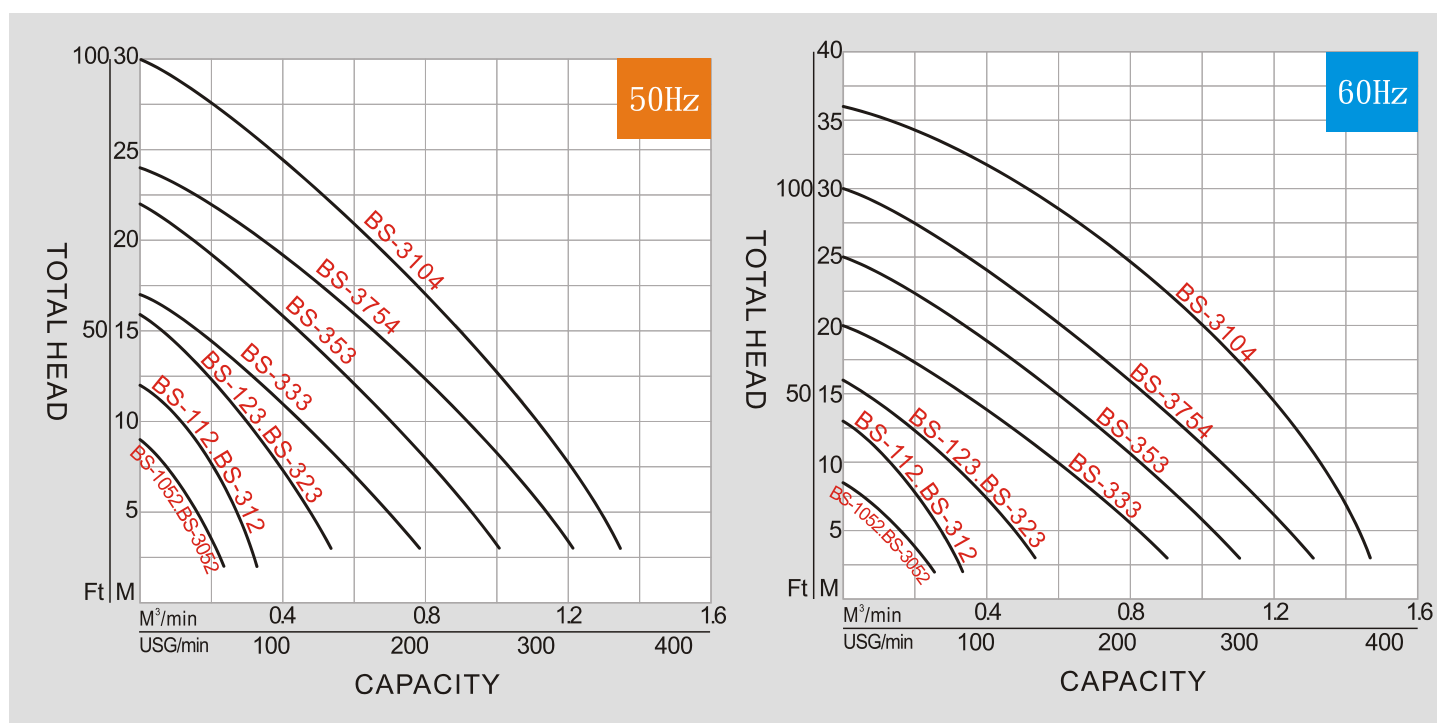
BS-333
BS-353



BS-3754
BS-3104



PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Caliber		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		BS Weight	TOS-BS Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	KG	mm
TOS-BS-1052	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450		5 M	5 M	0.16	0.16	8 M	8.5M	0.27	0.30	18	27	35
TOS-BS-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450		5 M	5 M	0.16	0.16	8 M	8.5M	0.27	0.30	18	27	35
TOS-BS-112	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		8 M	8 M	0.19	0.20	12M	13M	0.35	0.36	21	30	35
TOS-BS-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		8 M	8 M	0.19	0.20	12M	13M	0.35	0.36	21	30	35
TOS-BS-123	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		10M	10M	0.30	0.30	16M	16M	0.60	0.60	40	60	40
TOS-BS-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		10M	10M	0.30	0.30	16M	16M	0.60	0.60	38	58	40
TOS-BS-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		11M	12M	0.40	0.50	17M	20M	0.90	1.00	43	63	45
TOS-BS-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		14M	17M	0.50	0.50	22M	25M	1.10	1.20	47	67	40
TOS-BS-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		16M	18M	0.60	0.70	26M	30M	1.30	1.40	58	78	50
TOS-BS-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450		20M	20M	0.65	1.00	28M	36M	1.40	1.50	63	83	50

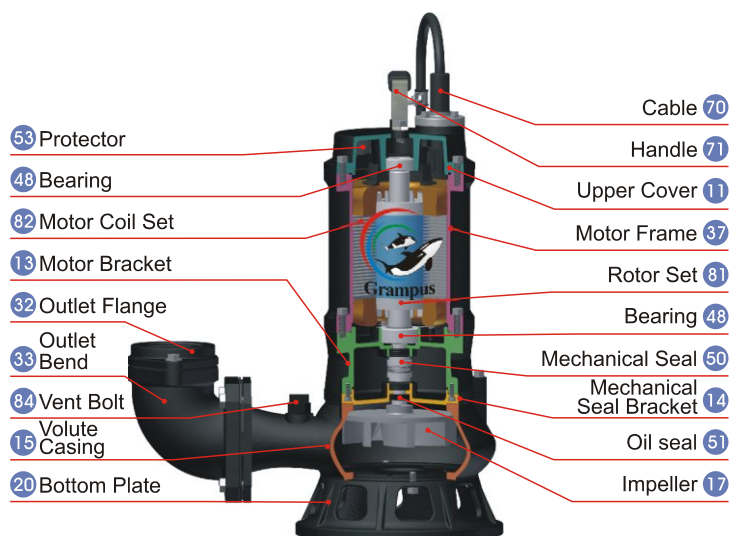


Non-Clog Apparatus Use Sewage Submersible Pump

APPLICATION

1. Wastewater lift station, municipal wastewater treatment plant.
2. Building wastewater treatment system.
3. Piggery excrement, animal & poultry farm.
4. School, hospital, community wastewater treatment system.
5. Food, paper, mining, textile, leather industry wastewater treatment system.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber		50mm · 80mm · 100mm
	Temperature		0°C~40°C (32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wastewater of food, paper, mining, textile, leather, dyeing and metal.
	The lowest depth		▽30 M
Pump	Structure	Impeller	Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	½-1HP: Engineering Strengthen Fiber Resin(STD) 2-10HP: FC-200
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		B class (130°C) / F class (7½-10HP)
	Inner protector		Auto Reset Motor Protector
	Material	Casing	FC-200
		Main Shaft	SUS-410 / SUS420
		Cable	Standard VCT / Optional

*Spare parts and material of pump could be made by request.

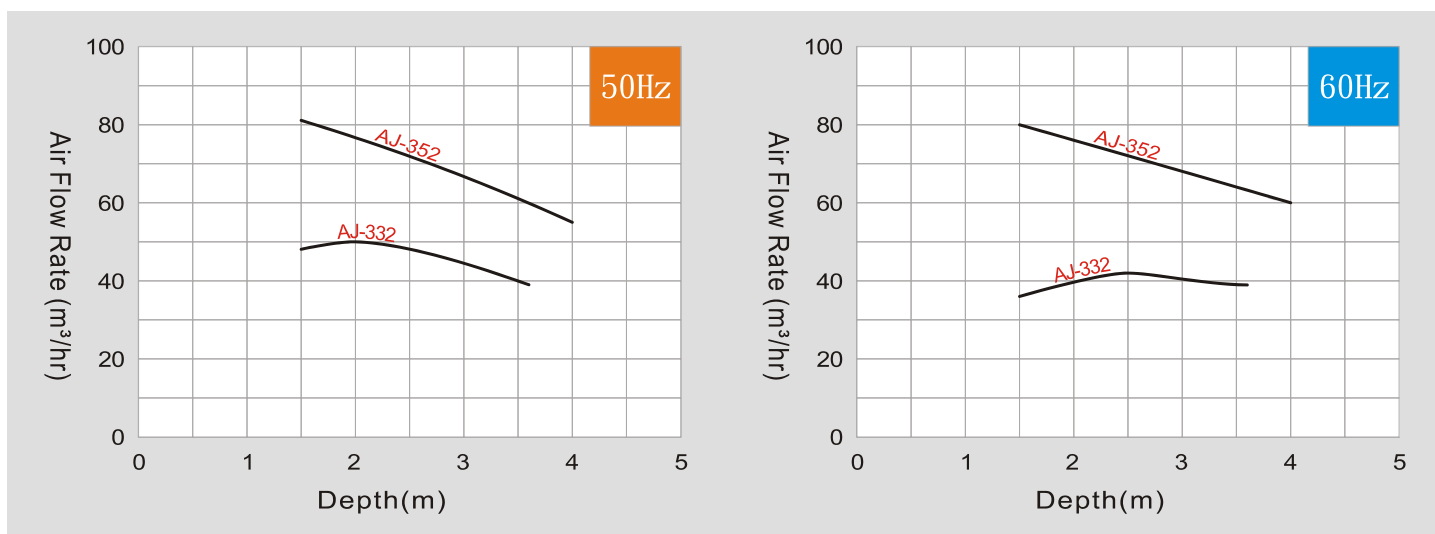
AJ-332



AJ-352



PERFORMANCE CURVE



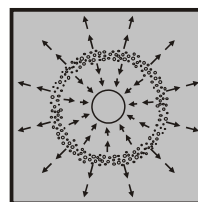
SPECIFICATION

Type	Phase	Start Method	Voltage	Power		Caliber		Pole	Max. Water Depth	Air Flow Rate- Water Depth 50 / 60 Hz	No. of Outlets	Weight	Solid Passage
TYPE	PH		VOLT	HP	KW	Inch	mm	P	M	M³/hr		KG	mm
AJ-332	3Ø	Direct	220/380	3	2.2	2"	50	4P	3.6	39 / 38	8	126	15
AJ-352	3Ø	Direct	220/380	5	3.7	2"	50	4P	4.0	55 / 60	8	128	15

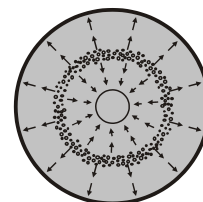
APPLICATION

Industrial wastewater aeration treatment, animal husbandry sewage water aeration treatment, general sewer aeration engineering, aeration tank of the active slurry treatment in the plant, aeration of various industries and the apparatus of mixing wastewater treatment.

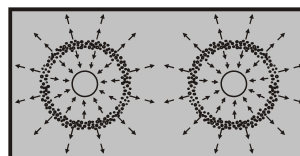
INSTALLATION CONSULTATION



A Square Tank

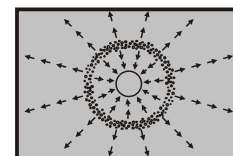


A Circle Tank



A Rectangular Tank

(L:W=2:1)



(L:W=1.5:1)



Submersible Aerator

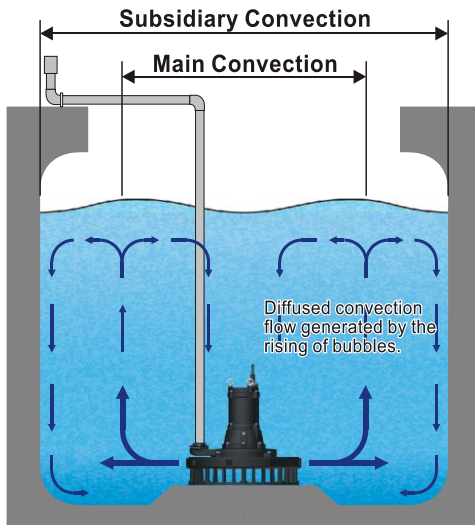
CONVECTION PATTERN

Main Convection

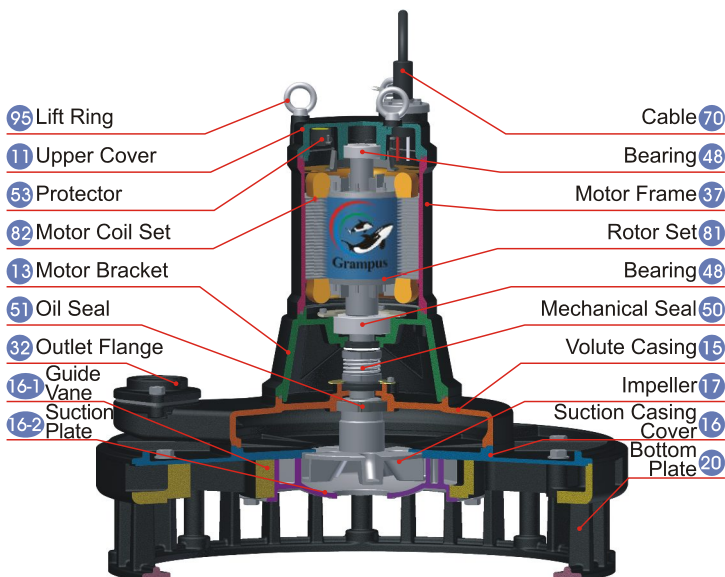
Convection made by rising bubbles.(
The minimum distance that must be provided between each aerator.)

Subsidiary Convection

The maximum covection that can keep
solids subsidiary pended to prevent
sedimentation of solids.



STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Caliber		50mm		
Coating		Epoxy		
Liquid	Temperature		0°C~40°C (32°F~104°F)	
	Application		Water treatment, plants, pond aerations, sewage, treatment, aeration, fish farming.	
	The lowest depth		▽30 M	
	Pump	Structure	Impeller	Semi-open
Seal			Dual Mechanical Seal	
Material		Upper Cover	FC-200	
		Bearing	Heavy-duty bearing	
		Impeller	SCS13	
		Volute Casing	FC-200	
		Suction Casing Cover	FCD-450	
		Guide Vane	FCD-450	
		Suction Plate	SCS13	
		Bottom Plate	FCD-450	
		Seal	Lubricant	ISO VG. # 32
			Motor Side	Carbon／Ceramic
Pump Side			Silicon Carbide／Silicon Carbide	
Inner Protector			Percipence Instrument of seal leakage	
Motor	Type		Submersible dry type	
	Insulation class		F class (155°C)	
	Inner protector		Auto Reset Motor Protector	
	Material	Casing	FC-200	
		Main Shaft	SUS-410／SUS420	
		Cable	Standard VCT／Optional	

*Spare parts and material of pump could be made by request.

GD-1212



GD-3212



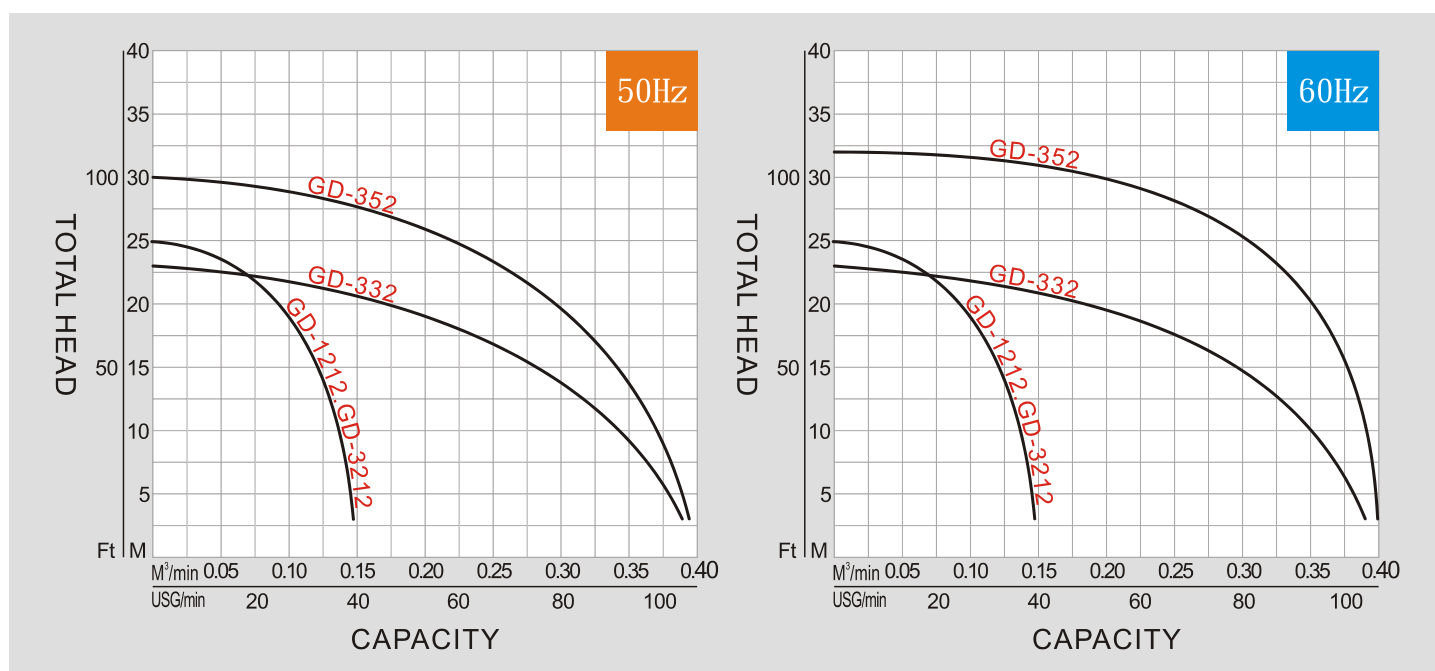
GD-332



GD-352



PERFORMANCE CURVE



SPECIFICATION

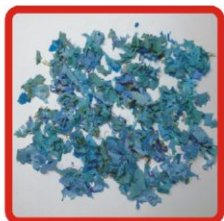
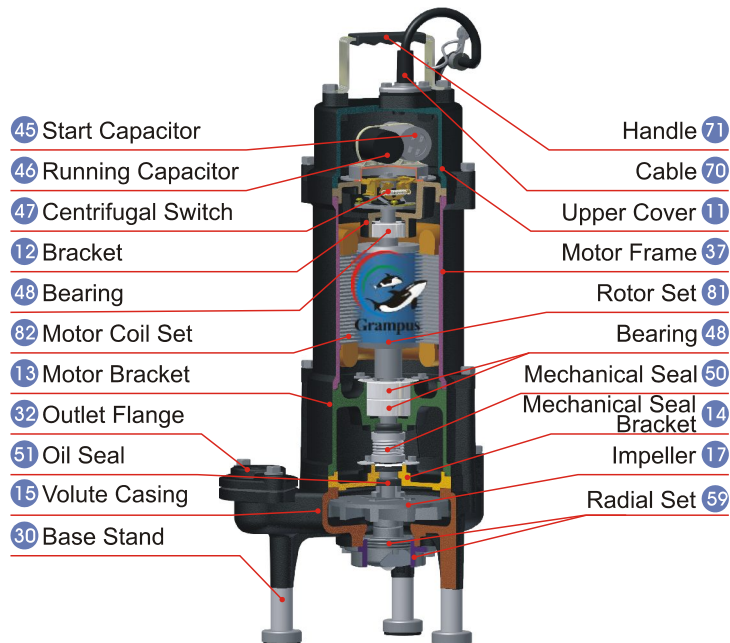
Type	Frequency		Phase	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight	Remark
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG	REM
GD-1212	50	60	1Ø	2	1.5	1¼"	32	2P / 2850 / 3450	23M	23M	0.06	0.06	25M	25M	0.15	0.15	36	
GD-3212	50	60	3Ø	2	1.5	1¼"	32	2P / 2850 / 3450	23M	23M	0.06	0.06	25M	25M	0.15	0.15	33	
GD-332	50	60	3Ø	3	2.2	2"	50	2P / 2850 / 3450	19M	19.5M	0.20	0.20	23M	23M	0.40	0.40	51	
GD-352	50	60	3Ø	5	3.7	2"	50	2P / 2850 / 3450	26M	30M	0.20	0.20	30M	32M	0.40	0.40	53	

APPLICATION

- 1.The material such as leathers, textile fiber, food and other tenacity objects can be grinded.
- 2.General household using, drainage systems of buildings and apartments, resorts and wastewater systems.
- 3.Commercial buildings, industrial factories, sewage water treatments.
- 4.Wastewater systems of schools, municipal engineering sewage treatments and so on are appropriate to this application.
- 5.Available using in various wastewater drainage systems and sewage water treatments.



■ STRUCTURAL DRAWING



Industry application

■ MATERIAL AND STANDARD TABLE

Liquid	Caliber	32mm • 50mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	General household, apartments, resorts, commercial buildings, industrial factories, and wastewater systems.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Centrifugal Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bracket	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Radial Cutter	SUS-440C
		Radial Ring	SUS-440C
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type	Submersible dry type	
	Insulation class	F class (155°C)	
	Inner protector	Auto Reset Motor Protector	
	Material	Casing	FC-200
		Main Shaft	SUS-410 / SUS420
		Cable	Standard VCT / Optional

*Spare parts and material of pump could be made by request.



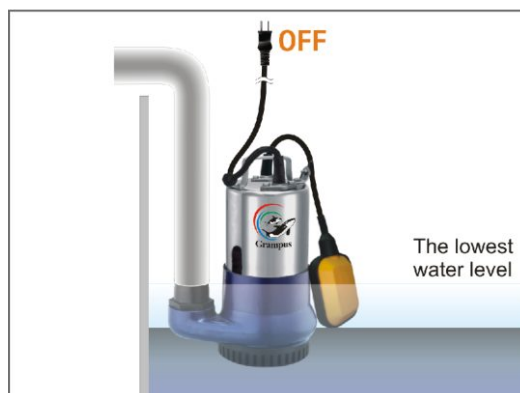
APPLICATION

1. Household wastewater, standing water in basement, sewer wastewater drainage.
2. Washing car, watering garden, flowing water of landscape.
3. Pond, septic tank and community sewage drainage.
4. Plant and general sewage pumping and sucking.
5. Weak-acid and weak-alkalinity wastewater treatment of building and animal husbandry.
6. Pumping station, wastewater treatment.
7. The Bottom strainer is only for H and K series, which is to filter small objects in order to avoid object block the suction gap.
8. Base stand of L and Q Series allow to bigger solid passage.

ATTENTION

1. The Auto-cut shuts off automatically to prevent overheat whenever its voltage drop, Impeller plugged, water level under the mark and other unusual Conditions. In this case, immediately improve the use of the environment, to avoid device failure.
2. Submersible pump relies on the outside cooling water and forbid it under the mark of liquid level.
3. Don't run over 24 hours. The proper using will extend the lifetime.
4. D, H, L series avoid pumping the liquid with lots of sand or liquid with acidity and alkaline.
5. This model is used to weak-acid and weak-alkalinity wastewater. If draining high corrosive liquid, use other pumps made of special materials.

FLOAT SWITCH OPERATION DRAWING



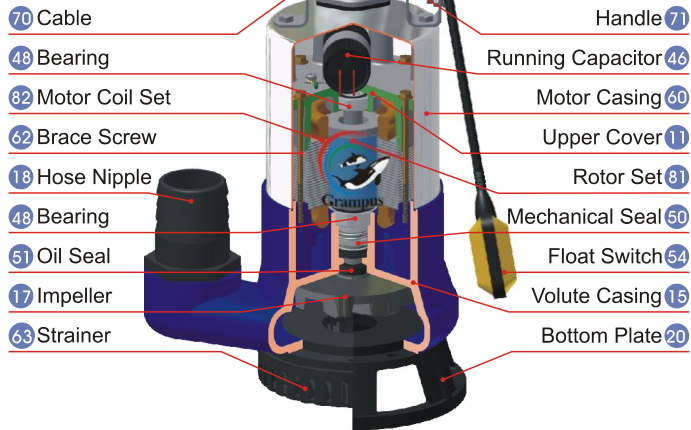
※Take heed of pump's cable not entangling with switch float's to keep the efficiency of liquid control when installing pumps.



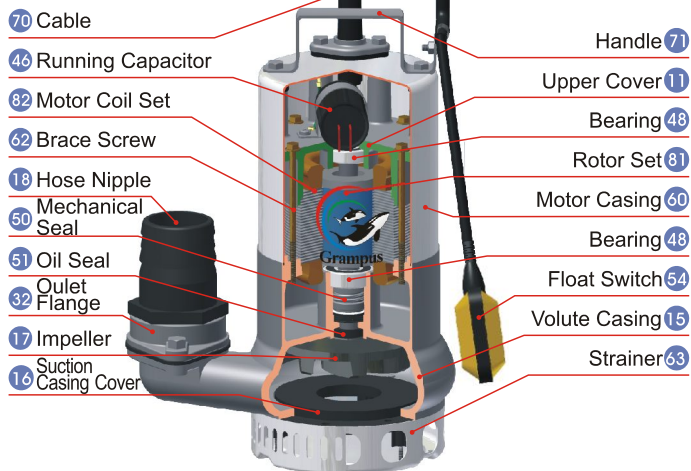
Portable Sump Pump

STRUCTURAL DRAWING

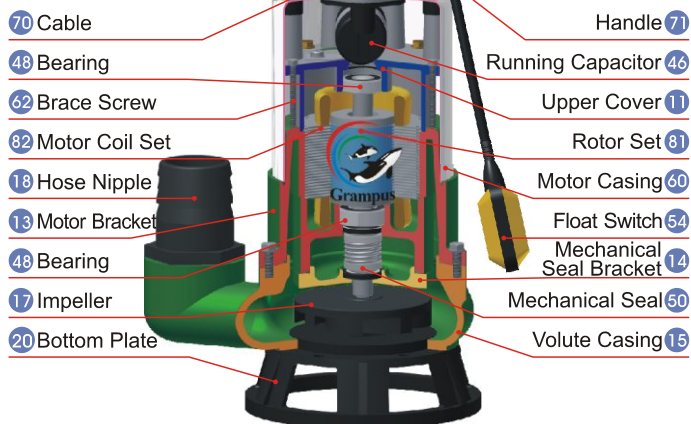
Series



Series

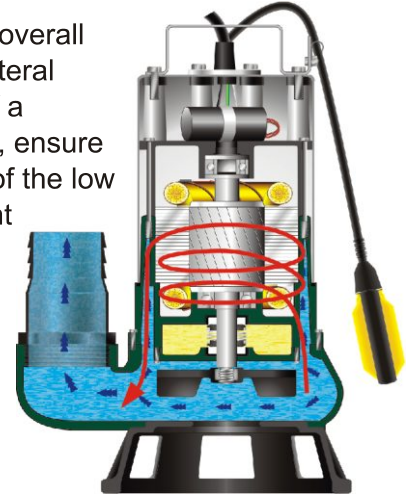


Series



D SERIES WATER COOLING

Water cooling design, overall flow through motors lateral side, characteristics of a self-circulation cooling, ensure continuous operation of the low water level and prevent long-term operation led to the defect of the motor damage.



MATERIAL AND STANDARD TABLE

Liquid	Caliber		40mm · 50mm · 80mm	
	Temperature		0℃~40℃ (32°F~104°F)	
	Application		Household sewage water, fresh water foul water, sewer sewage water, industrial wastewater, public water, weak-acid and weak-alkalinity sewage water, non-corrosive liquid	
	The lowest depth		▽10 M	
Pump	Structure	Impeller	Vortex Impeller	
		Seal	Single 、Dual Mechanical Seal	
	Material	Upper Cover		FC-200
		Bearing		Ball bearing
		Impeller		Engineering Strengthen Fiber Resin
		Volute Casing		H,L,D : FC-200／K,Q : SCS14
		Suction Casing Cover		H,K,Q 1/3-1/2HP:Engineering Strengthen Fiber Resin K,Q 1-2HP:SCS14
		Bottom Plate		Engineering Strengthen Fiber Resin
		Strainer		H 1/3-1/2HP:Engineering Strengthen Fiber Resin H 1-2HP,K,Q:SUS-304
		Lubricant		ISO VG. # 32
		Seal	H 、 L	Carbon／Ceramic (1-2HP:SIC／SIC)
	K 、 Q		Silicon Carbide／Silicon Carbide	
	Motor Side		D series: Carbon／Ceramic	
Pump Side	D series: Silicon Carbide／Silicon Carbide			
Motor	Type		H,L,K,Q:Submersible oil type／D:dry type	
	Insulation class		E class (120℃)	
	Material	Casing		D 1/5-1/2,H,L 1/3-1/2HP:SUS-304 H,L 1-2HP,K,Q:SUS-316
		Main Shaft		SUS-410／SUS-420／SUS-316(K,Q)
		Hose Nipple		PE
		Cable		PVC／VCT／Optional

*Spare parts and material of pump could be made by request.

H / L series



H-10315(A)

H-1052(A) 、 H-113(A)



L-1052 、 L113

K / Q series (SUS#316)



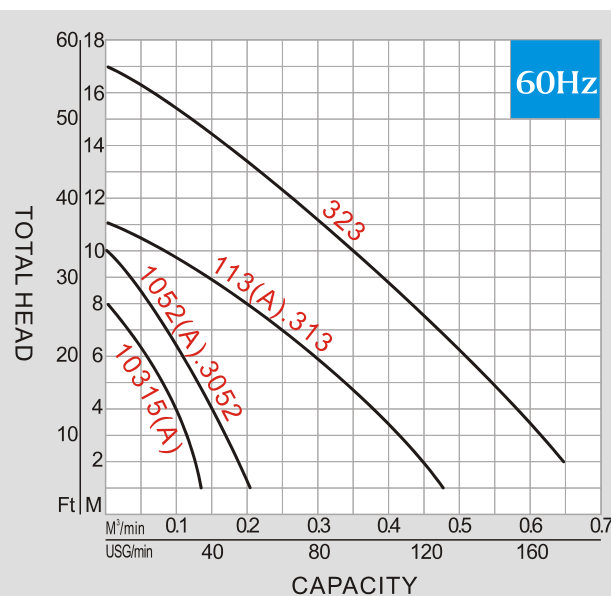
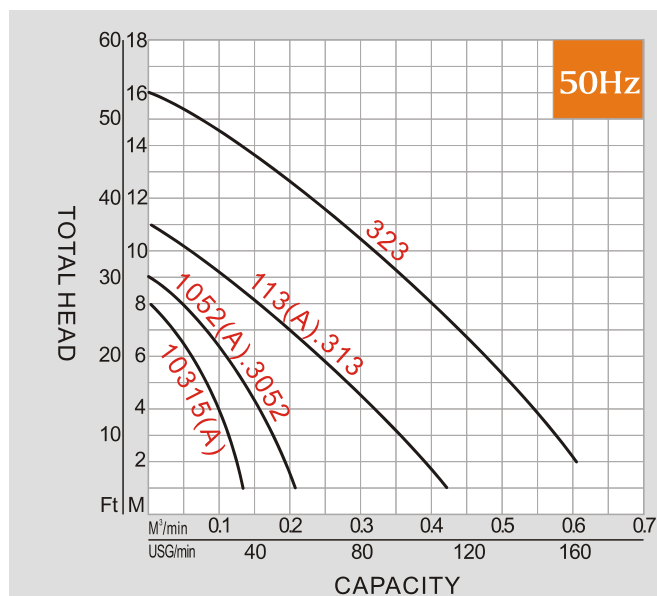
K-10315(A)

K-1052(A) 、 K-113(A)



Q-1052 、 Q113

PERFORMANCE CURVE



SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Model	Frequency	Phase	Voltage	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight
TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG
10315(A)	50 60	1Ø	110/220	1⁄3	0.25	1 1⁄2"	40	2P / 2850 / 3450	4 M 4 M	0.10 0.10	8 M 8 M	0.14 0.14					8
1052(A)	50 60	1Ø	110/220	1⁄2	0.4	2"	50	2P / 2850 / 3450	6 M 6 M	0.11 0.11	9 M 10M	0.22 0.22					10
3052	50 60	3Ø	220/380	1⁄2	0.4	2"	50	2P / 2850 / 3450	6 M 6 M	0.11 0.11	9 M 10M	0.22 0.22					10
113(A)	50 60	1Ø	110/220	1	0.75	3"	80	2P / 2850 / 3450	7 M 7 M	0.20 0.25	11M 11M	0.45 0.50					21
313	50 60	3Ø	220/380	1	0.75	3"	80	2P / 2850 / 3450	7 M 7 M	0.20 0.25	11M 11M	0.45 0.50					21
323	50 60	3Ø	220/380	2	1.5	3"	80	2P / 2850 / 3450	10M 10M	0.32 0.35	16M 17M	0.65 0.70					27



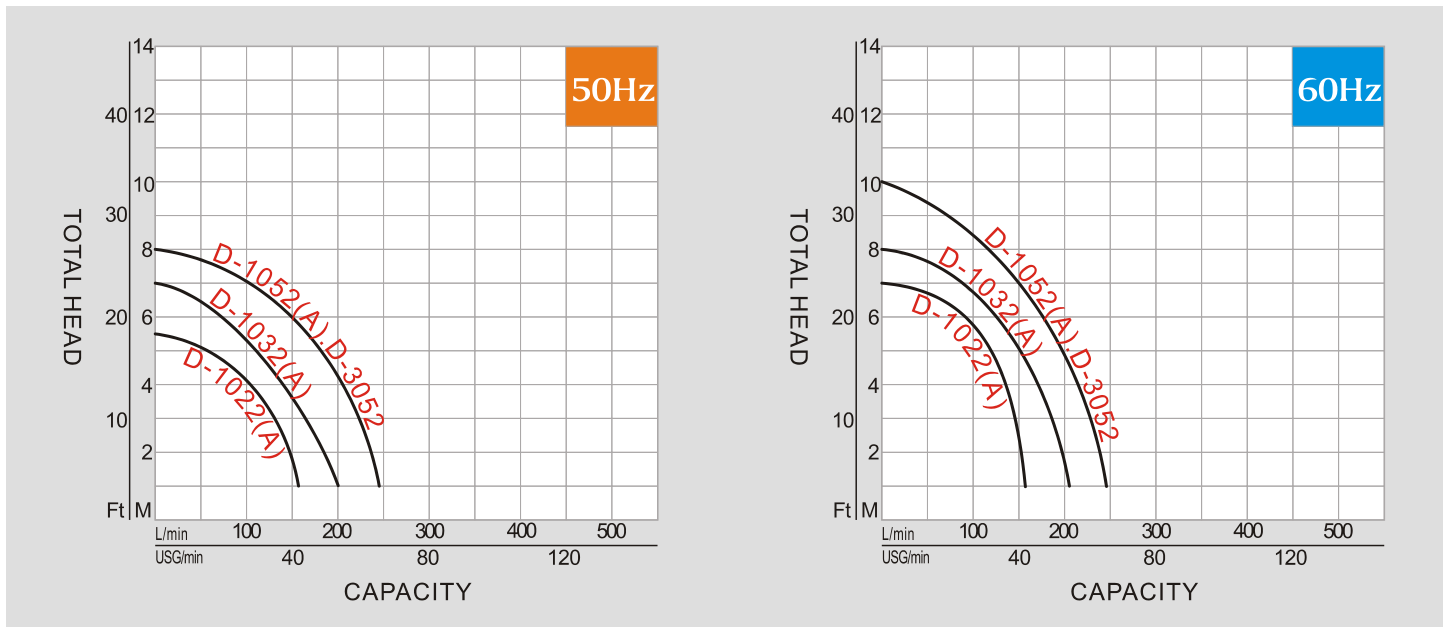
Portable Sump Pump

D series Water-Cooling Portable Sewage Pump



D-1022(A) 、 D-1032(A) 、 D-1052(A) 、 D-3052

PERFORMANCE CURVE



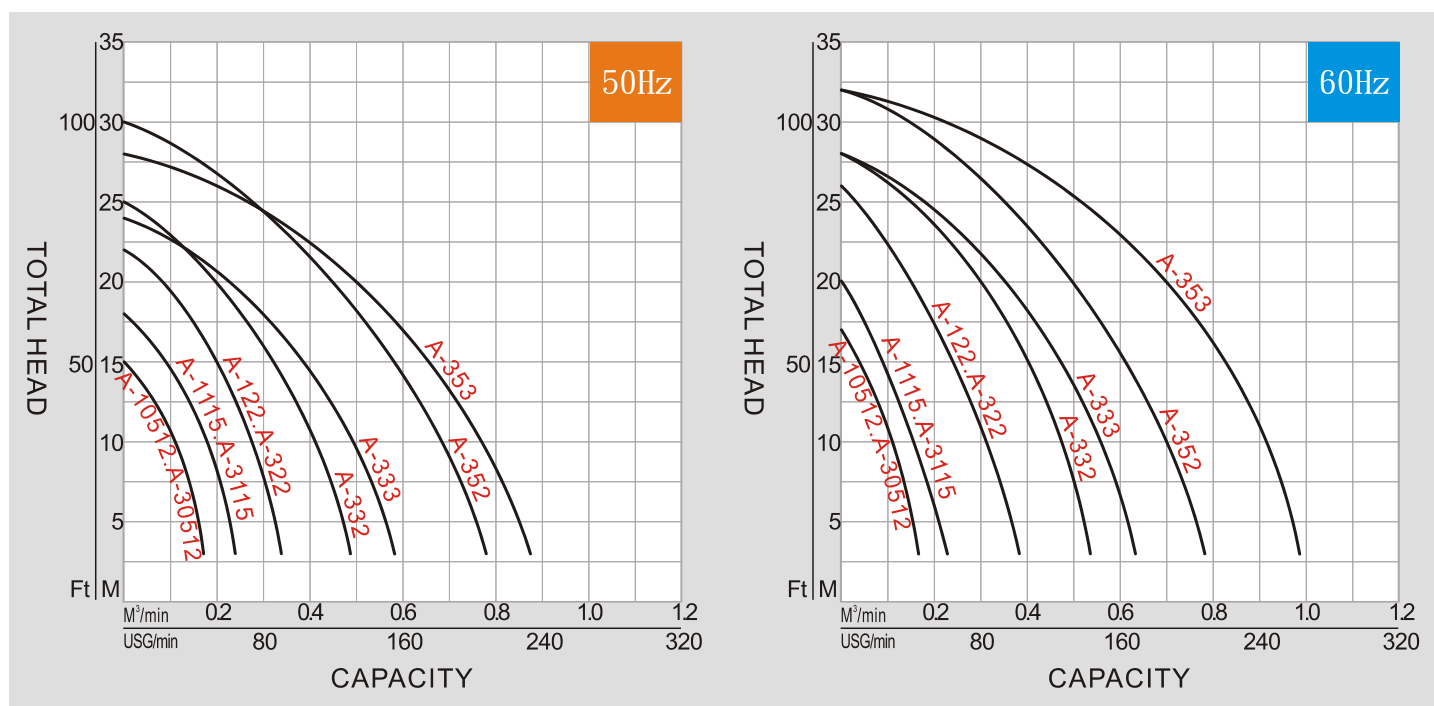
SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Type	Frequency		Phase	Voltage	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight	Solid Passage
TYPE	Hz		PH	VOLT	HP	W	Inch	mm	P/rpm	M		L/min		M		L/min		KG	mm
D-1022(A)	50	60	1Ø	110/220	1⁄5	150	2"	50	2P / 2850 / 3450	3.5M	5 M	120	120	5.5M	7 M	160	160	9.8	18
D-1032(A)	50	60	1Ø	110/220	1⁄3	250	2"	50	2P / 2850 / 3450	4 M	5.5M	140	140	7 M	8 M	210	210	10.1	14
D-1052(A)	50	60	1Ø	110/220	1⁄2	400	2"	50	2P / 2850 / 3450	6 M	7 M	150	150	8 M	10M	250	250	10.5	12
D-3052	50	60	3Ø	220/380	1⁄2	400	2"	50	2P / 2850 / 3450	6 M	7 M	150	150	8 M	10M	250	250	10.5	12

A-10512
A-30512A-1115
A-3115A-122
A-322A-332
A-333A-352
A-353

PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight	Remark
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG	REM
A-10512	50	60	1Ø	½	0.4	1¼"	32	2P / 2850 / 3450	10M	10M	0.11	0.11	15M	17M	0.18	0.18	15	
A-30512	50	60	3Ø	½	0.4	1¼"	32	2P / 2850 / 3450	10M	10M	0.11	0.11	15M	17M	0.18	0.18	14	
A-1115	50	60	1Ø	1	0.75	1½"	40	2P / 2850 / 3450	12M	12M	0.15	0.13	18M	20M	0.25	0.25	18	
A-3115	50	60	3Ø	1	0.75	1½"	40	2P / 2850 / 3450	12M	12M	0.15	0.13	18M	20M	0.25	0.25	17	
A-122	50	60	1Ø	2	1.5	2"	50	2P / 2850 / 3450	15M	15M	0.20	0.24	22M	26M	0.35	0.40	28	
A-322	50	60	3Ø	2	1.5	2"	50	2P / 2850 / 3450	15M	15M	0.20	0.24	22M	26M	0.35	0.40	25	
A-332	50	60	3Ø	3	2.2	2"	50	2P / 2850 / 3450	20M	20M	0.20	0.30	25M	28M	0.50	0.55	33	
A-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450	18M	20M	0.30	0.35	24M	28M	0.60	0.65	33	
A-352	50	60	3Ø	5	3.7	2"	50	2P / 2850 / 3450	20M	20M	0.45	0.50	30M	32M	0.80	0.80	37	
A-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450	20M	20M	0.50	0.70	28M	32M	0.90	1.00	37	



Submersible High Head Pump

APPLICATION

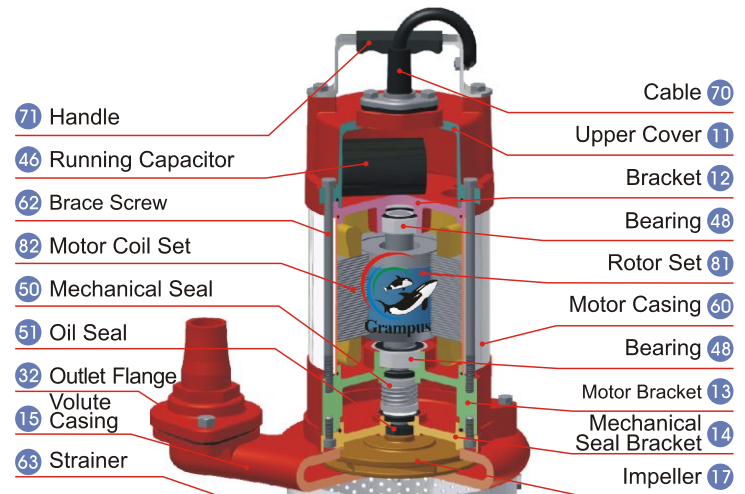
1. Household drainage, garden watering, car washing, garage drainage and basement or low-lying drainage.
2. Mansion, ship and industry pumping and drainage.
3. Farm-irrigation, hillside, deep well and stream's water delivery.

MATERIAL AND STANDARD TABLE

Liquid	Caliber	32mm · 40mm · 50mm · 80mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Pumping water for household, garden, farming irrigation, deep well and stream's water delivery.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Channel Centrifugal Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bracket	FC-200
		Bearing	Heavy-duty bearing
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Impeller	Bronze
		Volute Casing	FC-200
		Strainer	SUS-304
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		B class (130°C)
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS420
		Cable	Standard VCT / Optional

*Spare parts and material of pump could be made by request.

STRUCTURAL DRAWING





T-1052
T-3052



T-1052C
T-3052C



T-1152
T-3152



T-133
T-333



T-134
T-334
T-354

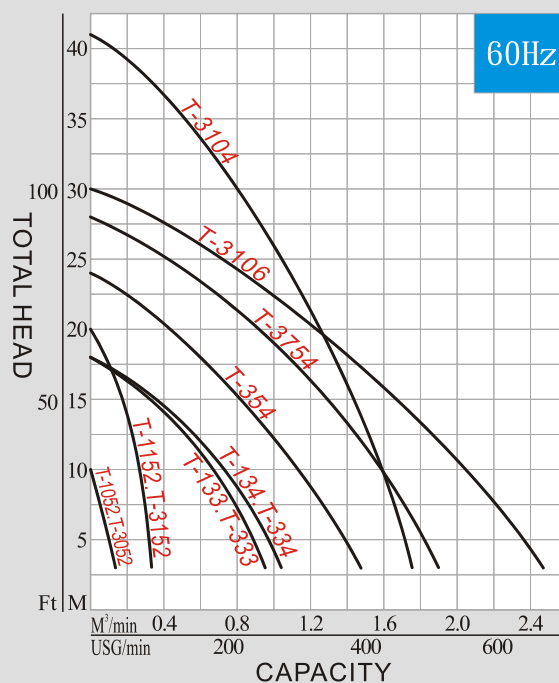
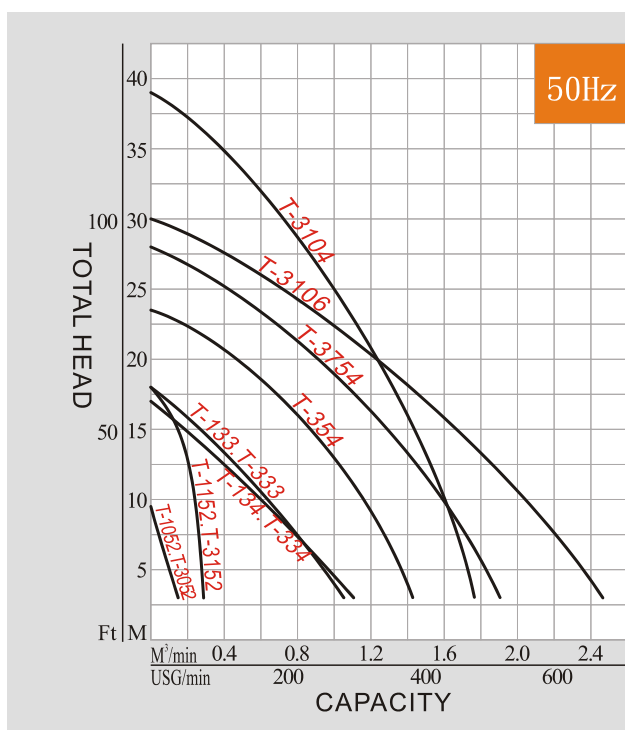


T-3754
T-3104



T-3106

PERFORMANCE CURVE



SPECIFICATION

Model	Type	Frequency		Phase	Power		Caliber		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight
Impeller Model	TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG
 Semi-open Impeller	T-1052	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450	5 M	6 M	0.10	0.10	9.5M	10M	0.22	0.18	15
	T-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450	5 M	6 M	0.10	0.10	9.5M	10M	0.22	0.18	15
 Channel Impeller	T-1152	50	60	1Ø	1½	1.1	2"	50	2P / 2850 / 3450	13M	14M	0.20	0.20	18M	20M	0.30	0.35	26
	T-3152	50	60	3Ø	1½	1.1	2"	50	2P / 2850 / 3450	13M	14M	0.20	0.20	18M	20M	0.30	0.35	26
 Channel Impeller	T-133	50	60	1Ø	3	2.2	3"	80	2P / 2850 / 3450	12M	10M	0.50	0.67	18M	18M	1.20	1.03	39
	T-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450	12M	10M	0.50	0.67	18M	18M	1.20	1.03	39
	T-134	50	60	1Ø	3	2.2	4"	100	2P / 2850 / 3450	10M	10M	0.60	0.73	17M	18M	1.30	1.12	39
	T-334	50	60	3Ø	3	2.2	4"	100	2P / 2850 / 3450	10M	10M	0.60	0.73	17M	18M	1.30	1.12	39
	T-354	50	60	3Ø	5	3.7	4"	100	2P / 2850 / 3450	13M	13M	1.00	0.95	23.5M	24M	1.50	1.58	42.5
 Channel Impeller	T-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450	19M	19M	1.00	1.00	28M	28M	2.00	2.00	64
	T-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450	25M	26M	1.00	1.00	39M	41M	1.80	1.80	72
	T-3106	50	60	3Ø	10	7.5	6"	150	2P / 2850 / 3450	17M	17M	1.50	1.50	30M	30M	2.60	2.60	72



Water-Cooling Submersible Pump

APPLICATION

1. Install the strainer, generally use for water supplying and drainage in the fish pond.
2. Over 1.1KW products, after pulling down the pump's strainer you can install the check valve through the outlet flange interface and connect the well piping. This can use for faming irrigation to pump the groundwater and the project groundwater....ect.
3. Factory drainage wastewater, water supply for mountainside, landscaping and gardening...etc. Use for long time circulation water supply.

MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm · 80mm · 100mm · 150mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Available fo drainage of fishery, farming-irrigation, water conservancy project and plants.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Semi-open · Channel Centrifugal Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	½HP:SUS-304 / Up 1HP:FC-200
		Bearing	Heavy-duty bearing
		Impeller	½HP:FC-200 / 1-5HP:Bronze / 7½-10HP:SCS13
		Volute Casing	FC-200
		Suction Casing Cover	FC-200
		Strainer	SUS-304
	Seal	Lubricant	ISO VG. # 32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type	Submersible dry type	
	Insulation class	B class (130°C) / F class (7½-10HP)	
	Inner protector	Auto Reset Motor Protector	
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS420
		Cable	Standard VCT / Optional

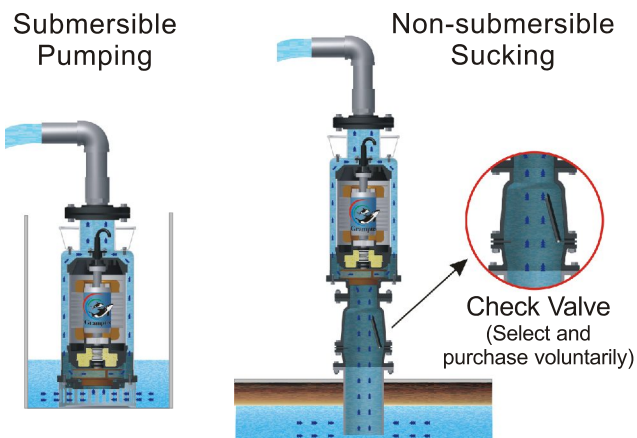
*Spare parts and material of pump could be made by request.

ATTENTION

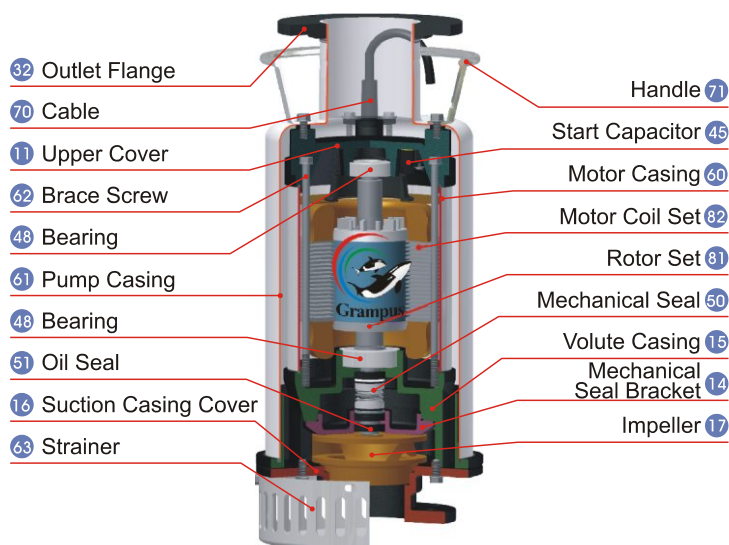
When dismantling the pump's strainer to use as pumping well water on the land, the pump has to full of water before running and then it can start pumping well water. Also it should install the "Check Valve" to prevent that every time you use it you have to make the pump full of water. You could purchase the Check Valve on the Hardware store and choose the appropriate standard by yourself.

WATER COOLING

Dual-layer volute cooling, optimizes cooling effect at low-level pumping condition.



STRUCTURAL DRAWING



Bronze Cast iron



G-1054(U)
G-3054(U)

Bronze Cast iron



G-115(U)
G-315(U)



G-356(U)



G-3758(U)

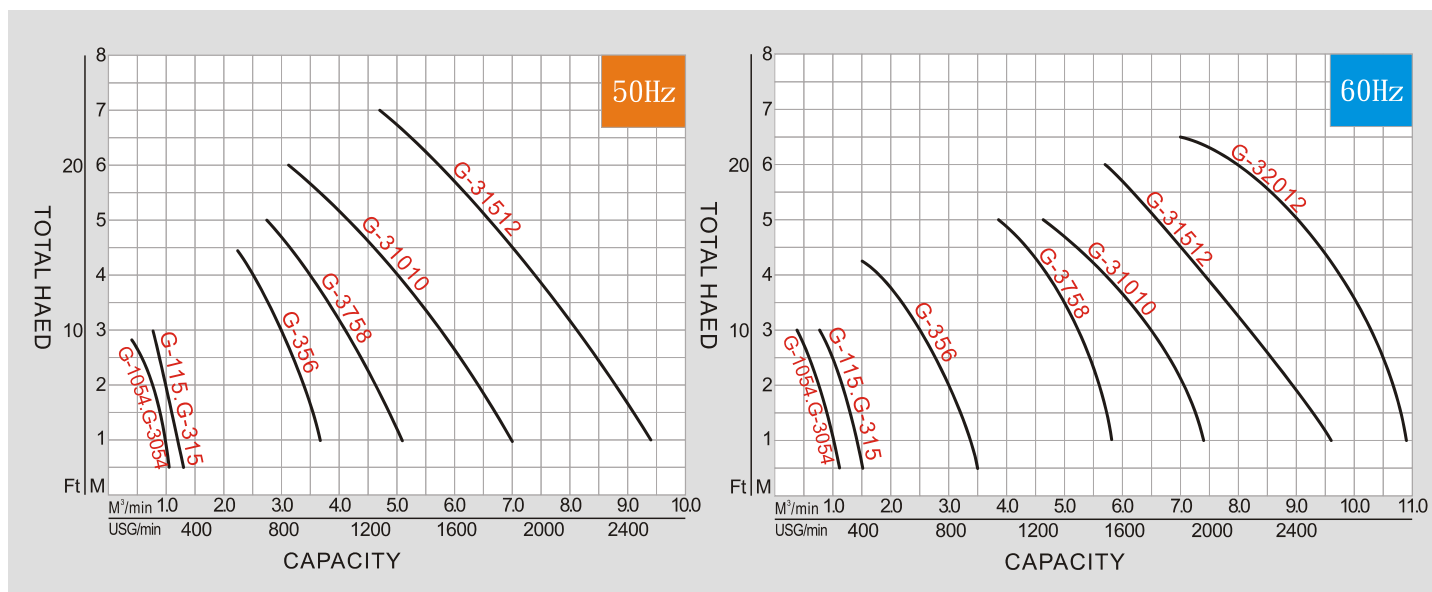


G-31010(U)



G-31512
G-32012

PERFORMANCE CURVE



SPECIFICATION

※(U)Partial Components are made from Bronze.

Type	Frequency	Phase	Power	Caliber	Pole/Rotation	Std.Head	Std.Flow	Max.Flow	Weight	Remark
TYPE	Hz	PH	HP KW	Inch mm	P/rpm	M	M³/min	M³/min	KG	REM
G-1054(U)	50 60	1Ø	½ 0.4	4" 100	2P / 2850 / 3450	1.5M 1.5M	0.8 0.9	1.1 1.2	25	
G-3054(U)	50 60	3Ø	½ 0.4	4" 100	2P / 2850 / 3450	1.5M 1.5M	0.8 0.9	1.1 1.2	25	
G-115(U)	50 60	1Ø	1 0.75	5" 125	2P / 2850 / 3450	1.5M 1.5M	1.1 1.3	1.4 1.6	26	
G-315(U)	50 60	3Ø	1 0.75	5" 125	2P / 2850 / 3450	1.5M 1.5M	1.1 1.3	1.4 1.6	26	
G-356(U)	50 60	3Ø	5 3.7	6" 150	4P / 1425 / 1725	3 M 3 M	3.0 2.5	4.0 3.7	75	
G-3758(U)	50 60	3Ø	7½ 5.5	8" 200	4P / 1425 / 1725	4 M 4 M	3.5 4.7	5.5 6.0	100	
G-31010(U)	50 60	3Ø	10 7.5	10" 250	4P / 1425 / 1725	4 M 4 M	5.0 5.7	7.5 7.8	130	
G-31512	50 60	3Ø	15 11	12" 300	4P / 1425 / 1725	4.5M 4.5M	7.0 7.0	10.0 10.2	225	
G-32012	60	3Ø	20 15	12" 300	4P / --- / 1725	6 M	8.0	10.9	240	



Axial-Flow Large Volume Water Pump

APPLICATION

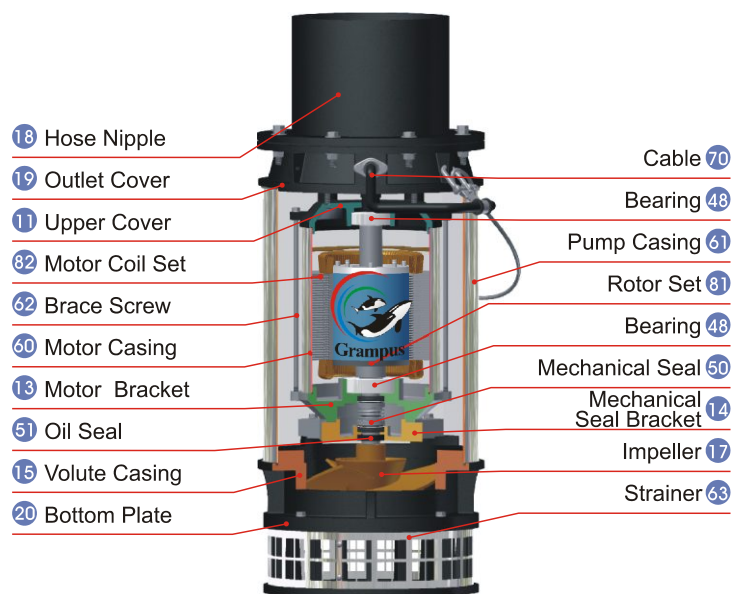
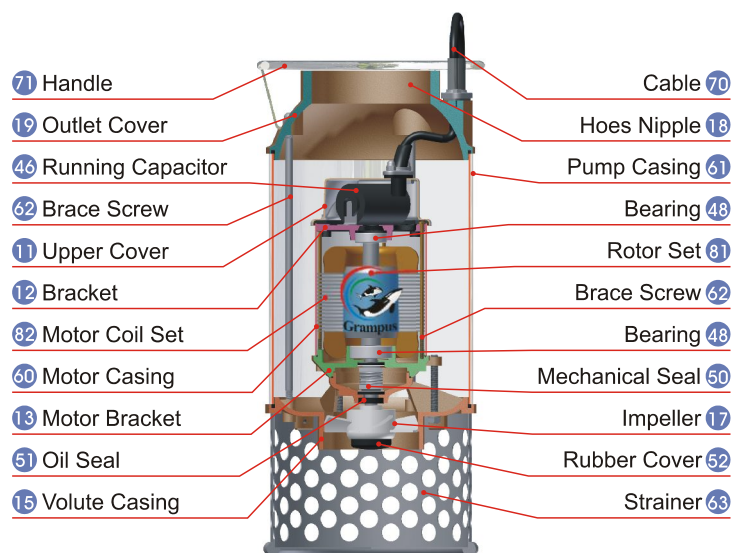
1. Discharge 4" and 5" are suitable to water cycle in carp farm.
2. Collocation with horticultures, or landscape gardening.
3. Drainage of stream, river, farm-irrigation, fisher ponds.
4. Drainage of sewer treatment, water conservancy engineering, waterworks or other industries.

MATERIAL AND STANDARD TABLE

Liquid	Caliber	100 · 125 · 150 · 200 · 250 · 300 (mm)	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Available to drainage of streams, farming-water conservancy, fishponds, sewers, waterworks, and various related industrial water fields. This type is particularly designed for drainage volume of eater.	
	The lowest depth	▽30 M	
Pump	Structure	Impeller	Axial-Flow Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	½-1HP: SUS-304 5-20HP: FC-200 / Bronze
		Bearing	Heavy-duty bearing
		Impeller	½-1HP: SCS13 / 5-20HP: Bronze
		Motor Bracket	FC-200 / Bronze
		Mechanical Seal Bracket	FC-200 / Bronze
		Volute Casing	FC-200 / Bronze
		Strainer	SUS-304
		Bottom Plate	7½-20HP: FC-200
		Seal	Lubricant
			ISO VG. # 32
			Motor Side
			Carbon / Ceramic
			Pump Side
			½-1HP: Silicon Carbide / Silicon Carbide 5-20HP: Carbon / Ceramic
Motor	Type	Submersible dry type	
	Insulation class	B class (130°C) / F class (7½-20HP)	
	Inner protector	Auto Reset Motor Protector	
	Material	Casing	SUS-304
		Main Shaft	SUS-304
		Cable	Standard VCT / Optional

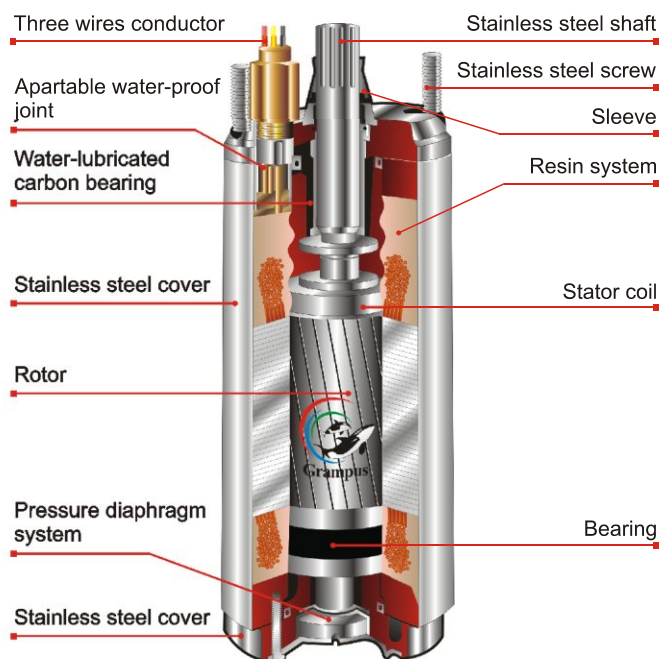
*Spare parts and material of pump could be made by request.

STRUCTURAL DRAWING





STRUCTURAL DRAWING



SPECIFICATION

*The product is designed for lubricating by water, avoid operating without water.

Well Diameter	Type	Frequency	Phase	Voltage	Power		Caliber		Pole	Std. Head	Std. Flow	Max. Head	Remark
Inch	TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P	ft	U.S.gal/min	ft	REM
4"	DW-1506	60	1Ø	220/380	½	0.4	1.5"	40	2P	150	12	240	
	DW-1507	50											
	DW-2504	60	1Ø	220/380	½	0.4	1.5"	40	2P	80	22	150	
	DW-2506	50											
	DW-2507	60	1Ø / 3Ø	220/380	1	0.75	1.5"	40	2P	150	22	260	
	DW-2509	50											
	DW-3505	60	1Ø / 3Ø	220/380	1	0.75	2"	50	2P	110	32	180	
	DW-3506	50											
	DW-1512	60	1Ø / 3Ø	220/380	1½	1.1	1.5"	40	2P	340	12	570	
	DW-1514	50											
	DW-2510	60	1Ø / 3Ø	220/380	1½	1.1	1.5"	40	2P	210	22	370	
	DW-2512	50											
	DW-3506	60	1Ø / 3Ø	220/380	1½	1.1	2"	50	2P	130	32	220	
	DW-3509	50											
	DW-1516	60	1Ø / 3Ø	220/380	2	1.5	1.5"	40	2P	420	12	700	including the control box
	DW-1518	50											
	DW-2512	60	1Ø / 3Ø	220/380	2	1.5	1.5"	40	2P	210	22	440	including the control box
	DW-3515	50											
	DW-3508	60	1Ø / 3Ø	220/380	2	1.5	2"	50	2P	180	32	280	including the control box
	DW-3512	50											
	DW-1522	60	1Ø / 3Ø	220/380	3	2.2	1.5"	40	2P	520	12	900	including the control box
	DW-1525	50											
	DW-2517	60	1Ø / 3Ø	220/380	3	2.2	1.5"	40	2P	320	22	600	including the control box
	DW-2522	50											
	DW-3511	60	1Ø / 3Ø	220/380	3	2.2	2"	50	2P	250	32	390	including the control box
	DW-3518	50											
	DW-2526	60	3Ø	220/380	5	3.7	1.5"	40	2P	460	22	900	
	DW-2538	50											
	DW-3518	60	3Ø	220/380	5	3.7	2"	50	2P	360	32	640	
	DW-3530	50											



4" Stainless Steel Well Pump (Water Lubrication)

APPLICATION

1. Deep well drainage
2. Industrial water supply
3. Household water supply
4. Agricultural irrigation
5. Apartment water supply

ATTENTION

1. Well diameter and depth
2. Actual head and flow
3. Static water level
(Natural water level)
4. Kinetic water level
(Running water level)

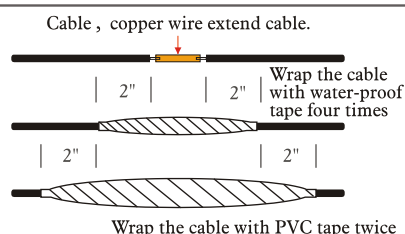
MATERIAL AND STANDARD TABLE

Liquid	Temperature	40℃	
	Application	Clean, neutrality, low density, without any solid impurity and fiber inside.	
Bearing		Special carbon	
Motor	Type	Water-lubricated	
	Insulation class	B class (130℃)・EPOXY impregnated	
	Pole／Volts	2P／220V or 380V	
	Inner protector	Auto Reset AC Motor Protector	
	Material	Casing	SUS#304
		Main Shaft	SUS#304
		Cable	PVC enclosure,XLPVC inside wire／(UL)

*Spare parts and material of pump could be made by request.

WATER-PROOF CABLE CONNECTION

When connecting, make sure to entwine the cable and wrap with PVC water-proof tape. Avoid simple wrap, or cause the bad isolation and damage the cable.



Every 1horse power, electric current is about:

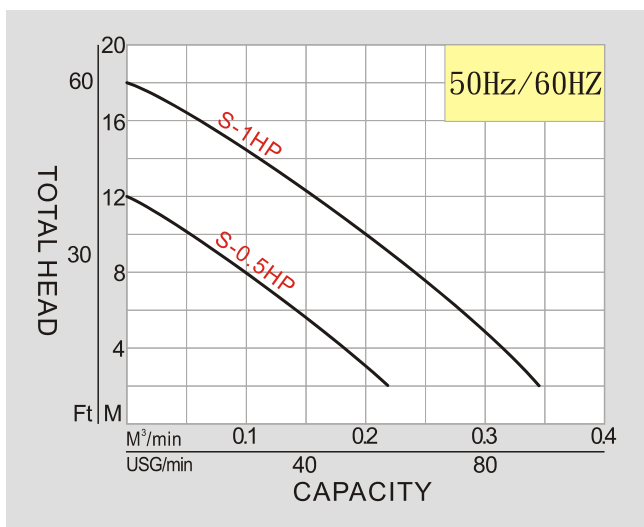
- 1HP 1-phase 110V, 9~11A
- 1HP 1-phase 220V, 4.5~5.5A
- 1HP 3-phase 220V, 2.5~3.5A
- 1HP 3-phase 380V, 1.5~2.0A

S-1052 / S-3052
S-112 / S-312S-1052A
S-112AS-1052G
S-112G

APPLICATION

1. Drainage slurry from construction site, factory ..etc.
2. Civil or tunnel engineering. Dewatering fluid containing solid sediment.

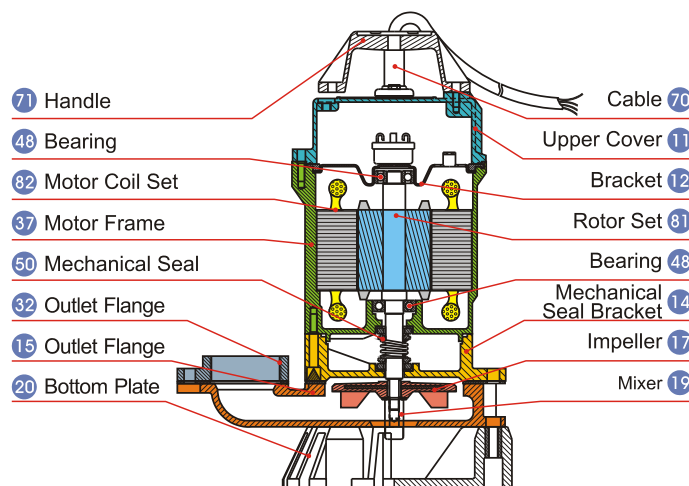
PERFORMANCE CURVE



SPECIFICATION

Type	Phase	Voltage	Power		Caliber		Pole	Std.Head	Std.Flow	Weight	Remark
TYPE	PH	VOLT	HP	KW	Inch	mm	P	M	M³/min	KG	REM
S-1052 / S-3052	1Ø / 3Ø	110/220/380	½	0.4	2"	50	2P	8M	0.10	12	
S-1052A	1Ø	110/220	½	0.4	2"	50	2P	8M	0.10	12.3	
S-1052G	1Ø	110/220	½	0.4	2"	50	2P	8M	0.10	12.3	
S-112 / S-312	1Ø / 3Ø	110/220/380	1	0.75	2"(3")	50(80)	2P	10M	0.20	16	
S-112A	1Ø	110/220	1	0.75	2"(3")	50(80)	2P	10M	0.20	16.3	
S-112G	1Ø	220	1	0.75	2"(3")	50(80)	2P	10M	0.20	16.3	

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber		50mm · 80mm
	Temperature		0°C~40°C (32°F~104°F)
	Application		Draining at civil engineering or building sites. Draining storm water, groundwater, or puddles. Draining from basements or utility pits.
Pump	Material	Upper Cover	ADC12
		Bracket	SECC
		Impeller	TPU
		Volute Casing	FC-200
		Bottom Plate	PVC
Motor	Material	Type	Submersible dry type
		Casing	FC-200
		Cable	Nylon 6



Submersible Mixer Pump

RM-3052
RM-313
RM-325
RM-337



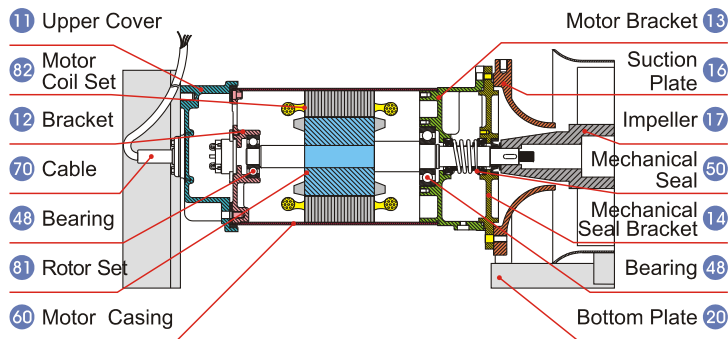
MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm · 80mm	
	Temperature	0°C~40°C (32°F~104°F)	
	Application	Draining at civil engineering or building sites. Draining storm water, groundwater, or puddles. Draining from basements or utility pits.	
Pump	Material	Upper Cover	FC-200
		Bracket	FC-200
		Impeller	FCD-450
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	SS41
Motor	Type	Submersible dry type	
		Auto Reset Motor Protector	
	Material	Casing	SUS-304
		Main Shaft	SUS-304
		Cable	VCT

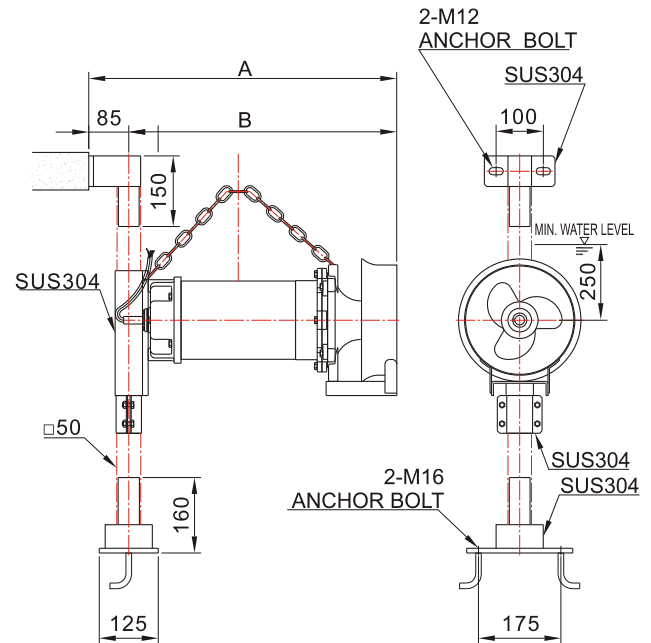
APPLICATION

1. Biological treatment tanks.
2. Equalization tanks.
3. Lime slurry storage tanks.
4. Ponds and rivers water circulations.
5. Heat exchanger
6. Ice prevention

STRUCTURAL DRAWING



DIMENSIONS (Guide bar installation)



SPECIFICATION

Type	Phase	Voltage	Power		Pole	Capacity	Flow Speed	Dimension(mm)		Remark
TYPE	PH	VOLT	HP	KW	P	M ³ /min	M/s	A	B	REM
RM-3052	3Ø	220/380	1/2	0.4	4P	1.8	1.78	480	395	
RM-313	3Ø	220/380	1	0.75	4P	3.2	2.02	510	425	
RM-325	3Ø	220/380	2	1.5	4P	4.5	2.50	632	567	
RM-337	3Ø	220/380	3	2.2	4P	6.8	3.50	652	587	



TOS / TUS parts (Guide Rail System)

According to the situation of set up is different at project scene, our Lifting Device doesn't include the Guide Rail. Guide Rail needs to be purchased optional.

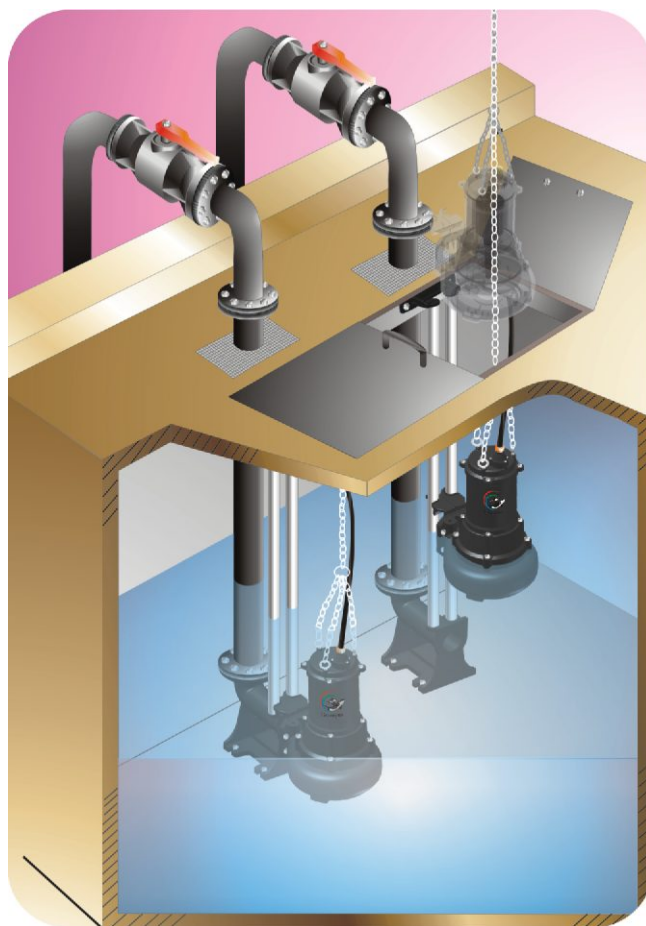


■ SPECIFICATION

Type	Caliber	
TYPE	Inch	mm
TOS-2	2"	50
TOS-3	3"	80
TOS-4	4"	100
TOS-6	6"	150
TOS-8	8"	200

Type	Caliber	
TYPE	Inch	mm
TUS-2	2"	50
TUS-3	3"	80
TUS-4	4"	100

■ Guide Rail System of Constitution



■ Guide Rail System

AS、BS、B、BV、GD、P series with automatically lift bracket, which is easy to repair or maintain by guide rail bars and chains. On the other hand, that help pumps ascend and descend, assemble and disassemble, and it is safer and more convenient comparing to traditional pump.

■ APPLICATION

Piggery excrement, factory sewage, food-processing factory, leather factory, paper dyeing, iron and steel, and various industries.



JET / TOJ parts (JET Aerator / Guide Rail System)

According to the situation of set up is different at project scene, our Aeration Device doesn't include the Air Pipe. Air Pipe is optional.



SPECIFICATION

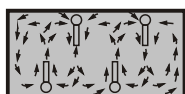
Type	Caliber	
TYPE	Inch	mm
JET-25	1"	25
JET-32	1 1/4"	32
JET-40	1 1/2"	40
JET-50	2"	50

Type	Caliber	
TYPE	Inch	mm
TOJ-25	1"	25
TOJ-32	1 1/4"	32
TOJ-40	1 1/2"	40
TOJ-50	2"	50

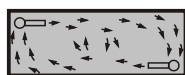
APPLICATION

Industrial wastewater aeration treatment, animal husbandry sewage water aeration treatment, general sewer aeration engineering, aeration tank of the active slurry treatment in the plant, aeration of various industries and the apparatus of mixing wastewater treatment.

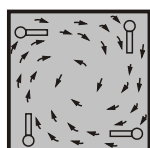
INSTALLATION CONSULTATION



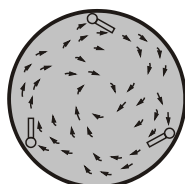
A Rectangular Tank
(L:W=2:1)



(L:W=5:1)



A Square Tank



A Circle Tank

AERATION PROCESS

Air Pipe

Vortex impeller produces high speed jet flow to cause the discrepancy of the minus pressure and barometric pressure in the mixing chamber in order to the air is sucked in the mixing chamber through air pipe.

Mixing Chamber

The air sucked in the mixing chamber by high speed produces upward convection of numerous tiny bubbles through compressing the air and water of the effect of water pressure to increase the oxygen in the aeration tank.

Diffusing Pipe

The aeration flow of powerful tiny bubbles drains through diffusing pipe, the speed becomes slow, the pressure increase greater. The aeration effect will be excellent as long as the aerator is installed at the proper water depth.



Float Switch

OPERATION

1. Inserts cable into counter weight.
2. Assure the water level in order to adjust the distance between counter weight and float switch controller.
3. For long lifetime using float switch controller that connecting wires must be waterproof treatment.

Remark:

1. During the pumping, the lowest level of float switch control should not lower than the suction strainer or touching ground.
2. There should not be any obstacles to impede float switch controller operation.
3. The part of connecting wires must be waterproof treatment for avoiding moisture and water penetration. We will not pay for the responsibility of replacement.

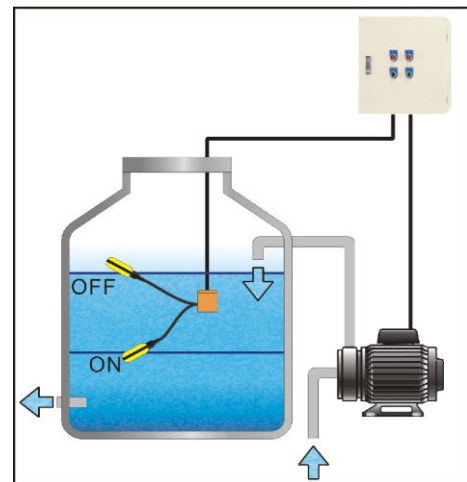
SPECIFICATION

1. Max loading current : 16 Amp
2. Max voltage: 250VAC 50/60Hz
3. Temperature : 0~60°C
4. A and B contacts
5. Long service lifetime, dual way of supplying and pumping water.

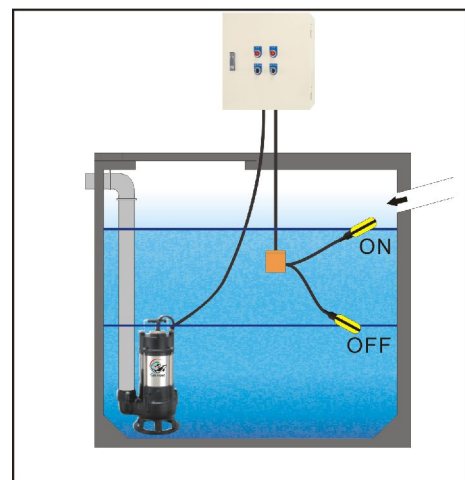
DRAWING OF INSTALLING FLOAT SWITCH



DIAGRAM OF INSTALLATION



Supplying water from tank is by using blue and black wires. Float switch controller is in the high level, the inner sensor is separated, so it wouldn't operate. On the converse, float switch will operate when it reach low level.



Pumping water in tank is by using black and brown wires. When float switch controller is in high level, the sensor will be contacted in order to operation. On the opposite, it wouldn't work.



Submersible Pump

Quality Inspection



Test control Panel



Test Automation



Electric Control Valve



Test Waterway



Quality Testing Device



Impeller Balancing Testing Device

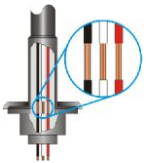


Power Meter Unit



Motor Coil Testing Device

Main Part



Waterproof Cable Base

Our motor wire has the highest quality waterproof treatment to prevent moisture into motor from gaps or other situations.



Ball Bearing

Precision ball bearing, whose character is high circumgyration, low noise, low vibration and low wear torque, increases long service life.



Protector

The automatic reset motor overload protector will shut itself off automatically to prevent overheat whenever its voltage drop, impeller plugged, the drainage line is below the watermark and other unusual conditions.



Dual Silicon Carbide Mechanical Seal

Its character is mud-resistance and excellent lubrication and is good for long-lasting running. The dual enclosed construction has a diaphragm to prevent leakage strongly.



Motor

Made from 2 Pole dry type motor with insulation class B (130°C) which is sustainable in high temperature.



Vortex Impeller

The vortex impeller not only could drain out solid object and long fiber object, but also it will be without touching the impeller in which reduce the abrasion and approach lif extension.



HENG LONG ELECTRIC CO., LTD.



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Specialized Manufacturer of Submersible Pump · Made in TAIWAN ISO 9001 Certified

- 1.Product supported by continuously research and improvement. We reserve the right to modify the specifications, capabilities and accessories of all products.
- 2.Please inform the detailed type, application, phase, power, caliber, voltage and head before order. It is easy to obtain a suitable model.
- 3.All the capabilities and specifications are subject to the products. If the voltage and frequency is specific standard, please customize in advance.