



PRODUCT CATALOG | 2026



Integrity Innovation Improvement

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

Continuously research, development and improvement of product is our consistent business philosophy and goals. Hence we reserve the right to modify specifications, capabilities and accessories of all products. For us to select suitable model, please inform the type, application, phase, power, caliber, voltage and head in detail before order. All the capabilities and specifications are subject to the products. If the voltage and frequency is specific standard, please customize in advance.

HENG LONG ELECTRIC CO., LTD.
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CAT-E6-PROD2510



Heng Long Electric is one of the leading pump manufacturers in Taiwan with 3 offices across the globe, including the head office in Kaohsiung. The company also has a cooperative company in the 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 every process closely to ensure our pumps are in "excellent state" before handed to our customers.

Our product provides a wide scope of applications to meet market demands nowadays. The applications include wastewater treatment, farm irrigation, aquaculture, daily home use, 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.

■ Business Philosophy

- **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.

■ Quality Policy

Maintaining quality is not only our supreme spirit, but also our mission.

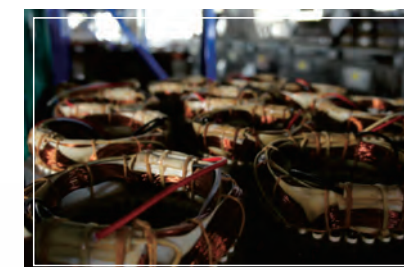
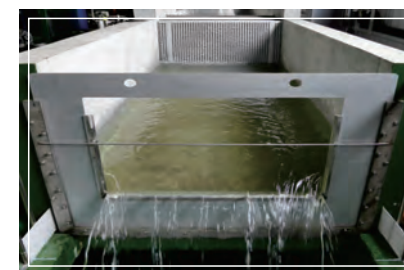
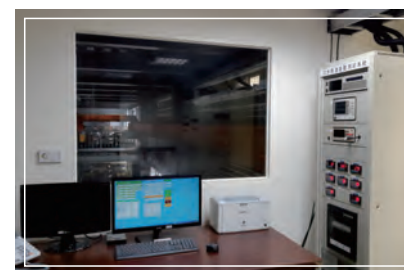
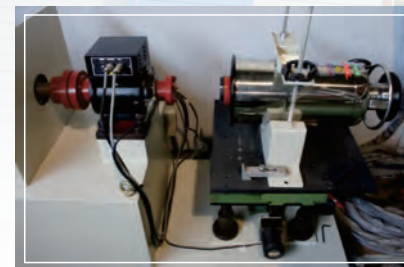


Ex II 2G Ex db h IIB T4 Gb



- CE marking of EU Directive.
- ISO 9001:2015 Quality management systems certificated.
- Bronze medal award of Talent Quality-management System of Workforce Development Agency, Ministry of Labor Taiwan.
- CNS NO. 8080 and 8432 certification of Bureau of Standards, Metrology and Inspection, M.O.E.A. Taiwan.
- CNS NO. 9813 and 8433 certification of Bureau of Standards, Metrology and Inspection, M.O.E.A. Taiwan.
- Pump test laboratory testing capability certificated by TAF and mutually recognized the agreement with ILAC.
- EX series of products has passed the ATEX and the Taiwan TS explosion-proof unit certification, Zone1 and Group IIB T4.

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



Integrity

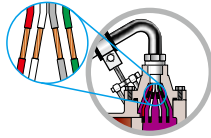
Innovation

Improvement



Thermal Protector

The thermal protector equipped in motors will shut off and reset automatically whenever there is unusual current and overheating. The protector relies on its high precision that prevents the motor from burning down.



Waterproof Treatment Cable

The cable is fixed on the upper cover. The core is manufactured with special waterproof treatment and the fixed end of the casing is produced by injection of one-piece forming; it blocks moisture from seeping into motor via cable or core. Preventing leakage or burning down of the motor.



Deep Groove Ball Bearing

The high precision deep groove ball bearing has high rotate precision, low noise, vibration, and wear torque to increase the pump's service life.



Motor Coil Set

The dry motor is designed as a 2 or 4 Pole motor with F class (155°C) insulation coil sets which is varnished and dried more than 8 hours to ensure the features of the coil set will be at full use. The protection class of the motor casing is IP68.



Surface Coating

The surface is treated with Epoxy coating to increase corrosion and leakage resistance of pump casing surface.



Rotor Set

The whole rotor set is made of stainless steel and is checked for optimal dynamic balance and alignment correction. It is abrasion resistant, anti-vibration and anti-noise. The service life is increased for the mechanical seal and oil seal...etc.



Leakage Sensor

When sealed parts of the impeller end have worn out and moisture has entered the sealed chamber, the sensor will detect it in advance and activate the alarm. If moisture has not entered the motor yet, the pump can be repaired and maintained to prevent the motor from burning down.



Vent Bolt

The volute casing is equipped with vent bolts to avoid air embolism and insures that the inlet and outlet pipe system remain steady.



Semi-open Impeller

Semi-open impeller is divided into single vane and double vanes, it can cut off debris via vane and prevent clogging by solid.



Channel Impeller

Channel type design impellers allow larger solids to pass through, high efficiency, larger capacity, and non-clog.



Non-clog Impeller

Vortex non-clog design allows liquid containing large debris and long fiber to pass through.



Dual Silicon Carbide Mechanical Seal

Special construction and independently sealed chamber design with dual silicon carbide mechanical seal, high abrasion and corrosion resistance to ensure the sealing effect for shaft rotation and prevents water from entering the motor.



RESEARCH, DEVELOPMENT AND MANUFACTURE IN TAIWAN



P. 04

V Series

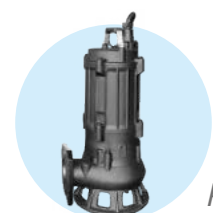
Portable Engineering
Fiber Resin Sump Pump



P. 06

BC Series

Cutter Sewage
Submersible Pump



P. 08

EX Series

Explosion-Proof
Sewage Pump
II 2G Ex db h IIB T4 Gb



P. 28

PF Series

High Efficiency Stainless
Steel Sewage Pump



P. 30

AS Series

Apparatus Use
Sewage Pump (4P)



P. 34

BS Series

Non-Clog Apparatus
Use Sewage Pump (2P)



P. 36

BSF Series

High Efficiency Apparatus
Use Sewage Pump (2P)



P. 10

H / L Series

Portable Sump Pump



P. 12

K / Q Series

Portable Stainless Steel
Sump Pump



P. 14

BH/BL Series

Multi-Usability
Sewage Pump



P. 38

BST Series

Cut-off Apparatus
Use Sewage Pump (2P)



P. 40

T Series

Water-Cooling
Sump Pump



P. 42

G Series

Axial-Flow Large Volume
Water Sump Pump



P. 44

GD Series

Grinder Pump



P. 16

PL Series

Multi-Usability Stainless Steel
Sewage Pump



P. 18

B Series

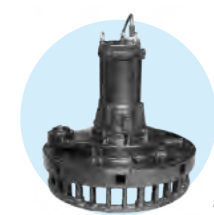
Non-Clog Sewage Pump



P. 20

BF Series

High Efficiency
Sewage Pump



P. 46

AJ Series

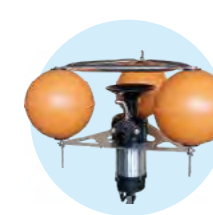
Submersible Aerator



P. 48

RM Series

Submersible Mixer
Pump



P. 49

FS Series

Floating Scum
Skimmer



P. 50

TC Series

Portable Residue
Dewatering Pump



P. 22

BV Series

Full Free Passage
Sewage Pump



P. 24

A Series

Submersible
High Head Pump



P. 26

P Series

Non-Clog Stainless
Steel Sewage Pump



P. 51

CF Series

Floating Switch



P. 52

TOS/TUS Series

Guide Rail System



P. 53

JET/TOJ Series

JET Aerator /
Guide Rail System



Portable Engineering Fiber Resin Sump Pump



V-1032(A)(AL)
V-1052(A)(AL)
V-112(A)(AL)



(A) Float Switch

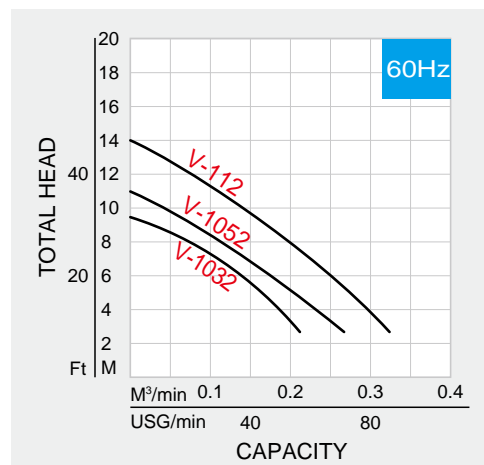


(AL) Standing
Float Switch

FEATURES

- 1.SIC mechanical seal in the stainless steel model resists moisture and corrosion.
- 2.Stainless housing stamped in one piece without seam is durable and easy to carry. The housing conforms to IEC IP68 standard.
- 3.A built-in auto-cut thermal protector prevents the motor from overheating.
- 4.With an open suspension impeller design, the water channel won't interfere with the bottom plate.
- 5.The machine's entire casing is made of stainless steel and special engineered plastics, making it lightweight and wear-resistant, capable of 24-hour operation.
- 6.It's light and handy, good design, durable, and easy to use. Just plug in the cable and it is ready to use.

PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency	Phase	Power		Discharge		Pole/Rotation	Std.Head	Std.Flow	Max.Head	Max.Flow	Weight
TYPE	Hz	PH	HP	KW	Inch	mm	P/rpm	M	M³/min	M	M³/min	KG
V-1032(A)(AL)	60	1Ø	1/3	0.25	2"	50	2P/3450	5	0.15	9.5	0.25	8
V-1052(A)(AL)	60	1Ø	1/2	0.4	2"	50	2P/3450	6	0.18	11	0.33	9
V-112(A)(AL)	60	1Ø	1	0.75	2"	50	2P/3450	8	0.20	14	0.37	11

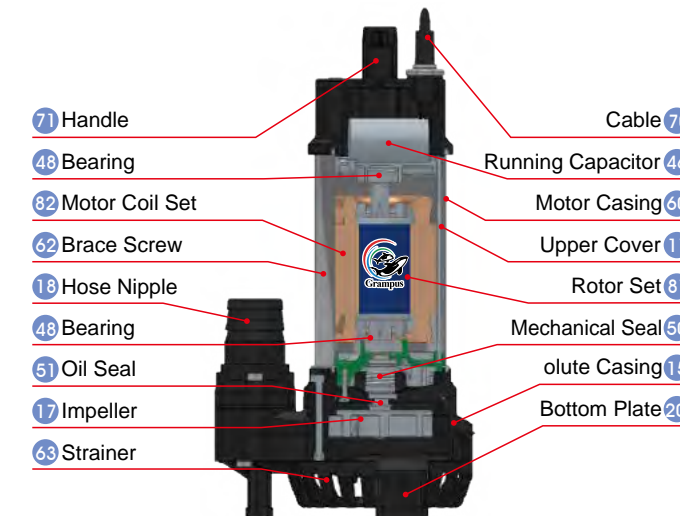


Portable Engineering Fiber Resin Sump Pump

ATTENTION

- 1.The Auto-cut automatically shuts off the motor to prevent overheating, voltage drops, a plugged impeller, low water level and other unusual conditions. In these cases, conditions need to be changed to avoid device failure.
- 2.The submersible pump relies on outside cooling water so cannot be used with a low water level.
- 3.Do not pump corrosive liquids with strong acids or bases, or slurry with a sand content exceeding 5%.

STRUCTURAL DRAWING



APPLICATION

- 1.Household wastewater, standing water in basement, sewer wastewater drainage.
- 2.Washing car, watering garden, landscape flowing water.
- 3.Pond, septic tank and community sewage drainage.
- 4.Plant and general sewage pumping and sucking.
- 5.The pumping station, wastewater treatment.
- 6.The Bottom strainer is to filter small objects to avoid objects block the suction gap. The base stand of V Series allows bigger solids to pass through.

MATERIAL AND STANDARD TABLE

Liquid	Caliber		50mm
	Temperature		0°C ~ 40°C(32°F~104°F)
	Application		Household sewage water, fresh waterfoul water, sewer sewage water,industrial wastewater, public water,weak-acid and weak-alkalinitysewage water, non-corrosive liquid
	The lowest depth		▽10 M
Pump	Structure	Impeller	Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	Engineering Strengthen Fiber Resin
		Bearing	Heavy-duty bearing
		Impeller	Engineering Strengthen Fiber Resin
		Volute Casing	Engineering Strengthen Fiber Resin
		Strainer	Engineering Strengthen Fiber Resin
		Rubber Foot	Rubber
	Seal	Horse Nipple	PP
		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)
	Material	Casing	SUS-304
		Main Shaft	SUS-403 / SUS-410
		Cable	VCT

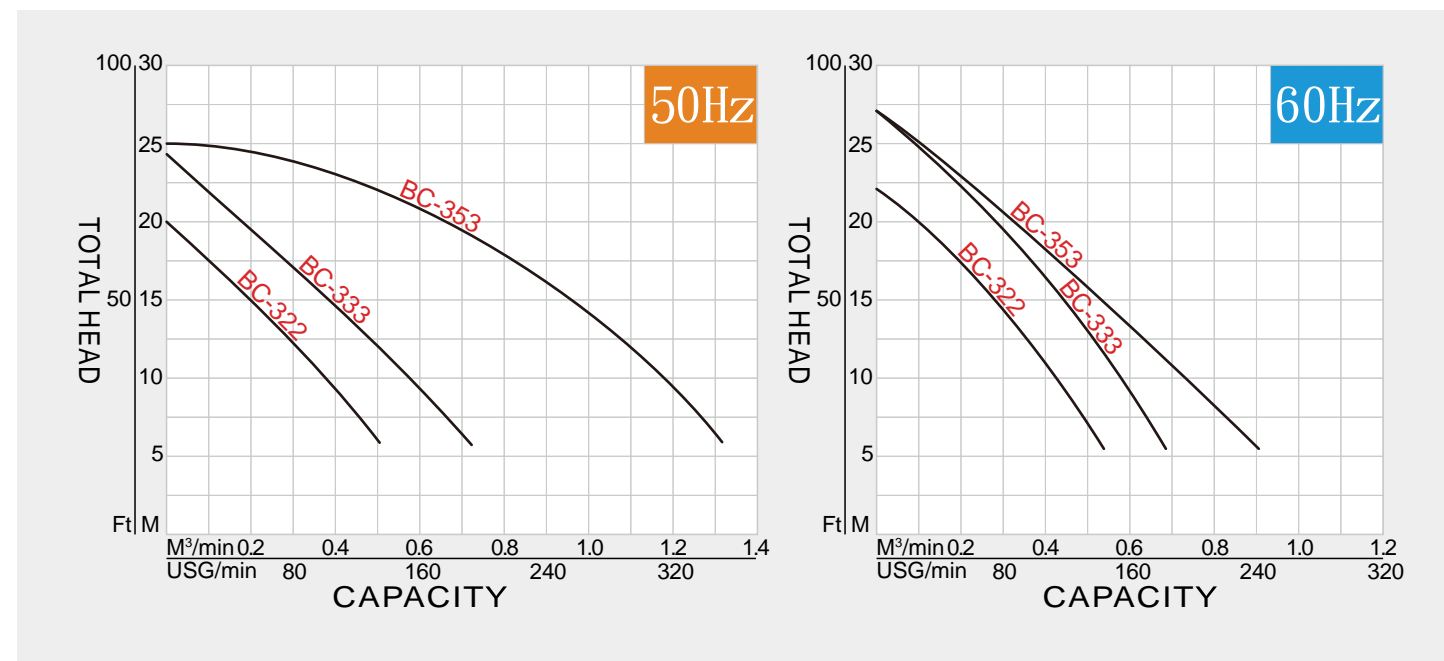
※ Elbow is sold separately for flange-type pumps.



FEATURES

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

PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Discharge		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		BC Weight
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG
BC-322(J)	50	60	3Ø	2	1.5	2"	50	2P / 2850 / 3450		15	11	0.20	0.40	20	23	0.65	0.65	30
BC-333(J)	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		19	15	0.20	0.46	24	27	0.90	0.80	33
BC-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		24	16	0.20	0.50	25	27	1.45	1.10	41

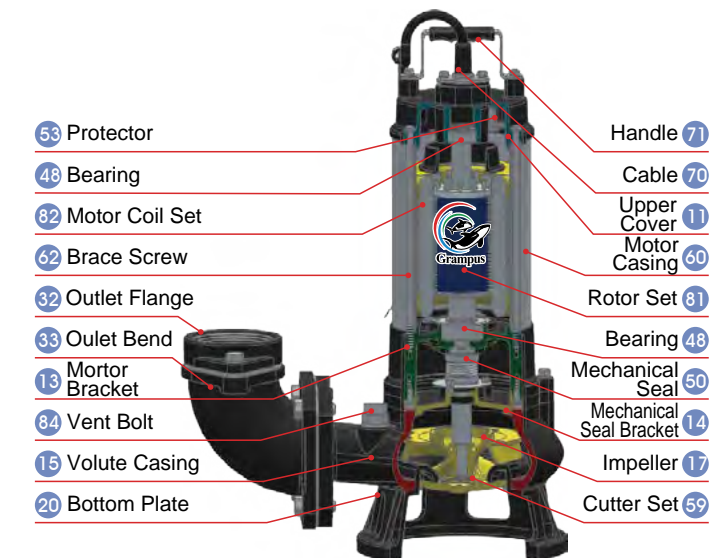


Cutter Sewage Submersible Pump

ATTENTION

1. For this series pump, there may be a blockage occur if the mince knife set encounters excessive solid impurities, please assess the impurity content before using.
2. This BC series pump is not applicable with guide rail system.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm • 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.
Pump	The lowest depth	▽30 M
	Structure	Impeller: Centrifugal Cutter Impeller
		Seal: Dual Mechanical Seal
	Material	Upper Cover: FC-200
		Bearing: Heavy-duty bearing
		Impeller: 420J1
		Volute Casing: FC-200
		Bottom Plate: FC-200
		Motor Bracket: FC-200
		Mechanical Seal Bracket: FC-200
		Cutter Plate: 420J1
		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	Main Shaft: SUS-304
		Hose Nipple: SUS-410 / SUS-420
		Cable: Standard VCT



EX Explosion-Proof Sewage Pump

※ Elbow is sold separately for flange-type pumps.

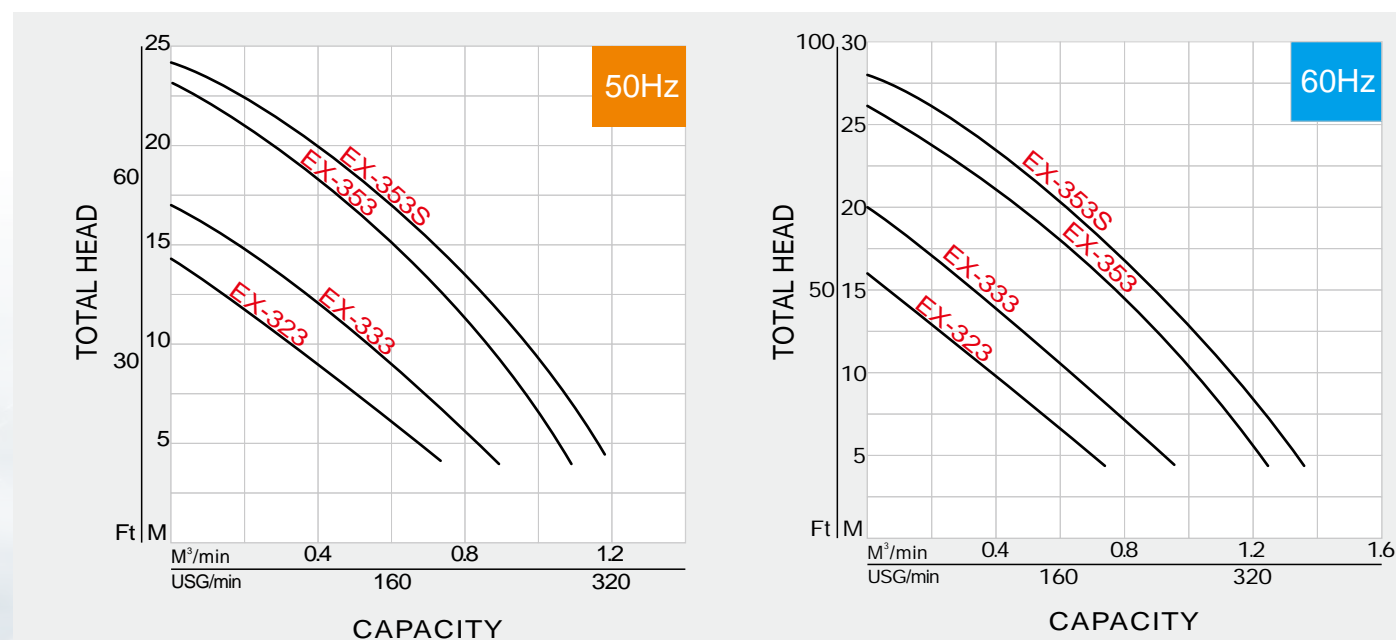


ISTIT : Ex db IIB T4 Gb
TÜV : Ex II 2G Ex db h IIB T4 Gb
ATEX : Ex II 2G Ex db h IIB T4 Gb



EX-323
EX-333
EX-353

PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Discharge		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG	mm
EX-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450	10	10	0.30	0.35	14	16	1.00	1.00	55	40
EX-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450	12	12	0.40	0.55	17	20	1.10	1.20	57	40
EX-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450	17	18	0.50	0.60	23	26	1.20	1.40	60	40
EX-353(S)	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450	18	22	0.50	0.50	24	28	1.35	1.50	60	35



Explosion-Proof Sewage Pump

OPTIONS



Vortex Non-Clog
Impeller



Semi-open
Impeller

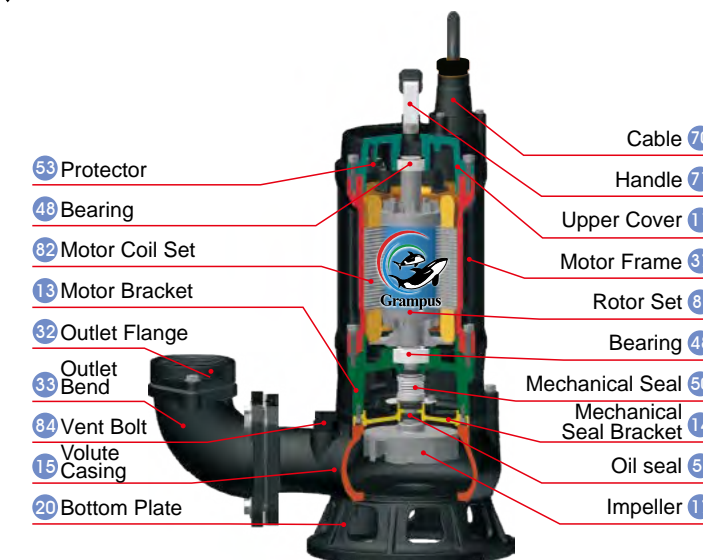
FEATURES

1. Certificate: ATEX and Taiwan TS explosion-proof unit certification, Zone1 and Group IIB T4 standard.
2. Motors are specially sealed and designed to be pressure-proof and explosion-proof to prevent the external structure from exploding due to pressure from the gas detonating in the motor casing.
3. Motor specification: Insulation grade F (155°C) of dry induction motor, explosion-proof grade Ex db h IIB T4 Gb.
4. "Temperature Control wire" & "Auto-cut" which prevents the motor from overheating.
5. Epoxy resin coating for better corrosion and rust-resistance.

APPLICATION

1. In a hazardous area such as Zone1, Group IIB T4, the gas, vapor or mist, will turn the environment into an explosive environment and may be used in places where these conditions may exist.
2. It is used in closed areas containing biogas, chemical, flammable, explosive gas, dust, etc.
3. Suitable for chemicals, petroleum, mining, power plants, sewage treatment plants, sewer systems, livestock farms, industrial and agricultural wastewater discharge.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber		80mm
	Temperature		0°C~40°C(32°F~104°F)
	Application		Suitable for chemical, petroleum, mining, power plants, sewage treatment plants, sewer systems , livestock farms, industrial and agricultural wastewater discharge.
	The lowest depth		▽30 M
Pump	Structure	Impeller	Vortex Impeller / Semi-open Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	Vortex:FC-200 / Semi-open:SCS13
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	FC-200
	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-403 / SUS-410
		Cable	Standard VCT

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

H / L series



H-10315(A)(AL)
H-1052(A)(AL)
H-3052



L-1052(A)(AL)
L-3052



(A) Float Switch

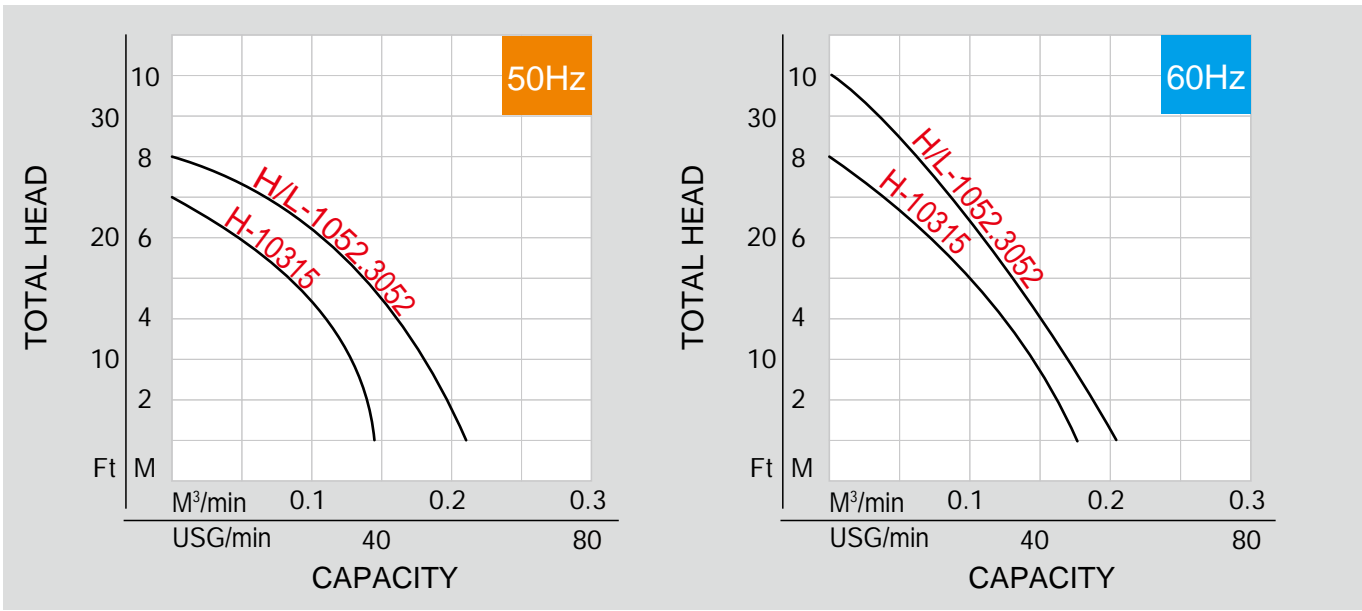


(AL) Standing
Float Switch

FEATURES

- 1.Obtained patent by Intellectual Property Office, Ministry of Economic Affairs in Taiwan.
- 2.Equipped with a high-quality dual SIC mechanical seal.
- 3.The stainless steel motor housing (IEC IP68) is durable and easy to carry.
- 4.A Single-phase motor is equipped with a built-in thermal protector.
- 5.Solid object and long fiber can pass through the vortex impeller.
- 6.High-intensity plastic impeller, strainer, and stand are rustproof and durable.
- 7.It's easy to operate without complex installation and maintenance.
- 8.Thick Epoxy coating is better for corrosion and rust resistance.

PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Model	Frequency		Phase	Voltage	Power		Discharge		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
H-10315(A)(AL)	50	60	1Ø	110/220	⅓	0.25	1 ½"	40	2P / 2850 / 3450	4	5	0.11	0.10	7	8	0.15	0.18	8
H/L-1052(A)(AL)	50	60	1Ø	110/220	½	0.4	2"	50	2P / 2850 / 3450	6	6	0.11	0.11	8	10	0.22	0.22	10
H/L-3052	50	60	3Ø	220/380	½	0.4	2"	50	2P / 2850 / 3450	6	6	0.11	0.11	8	10	0.22	0.22	10



Portable Sump Pump

APPLICATION

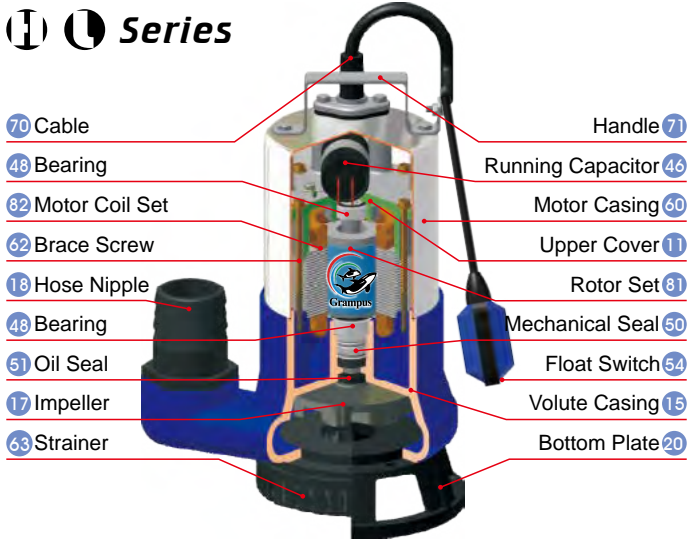
- 1.Household wastewater, standing water in basements, sewer wastewater drainage.
- 2.Washing car, watering garden, landscape flowing water.
- 3.Pond, septic tank and community sewage drainage.
- 4.Plant and general sewage pumping and sucking.
- 5.Weak acid and alkaline wastewater treatment of buildings and animal husbandry.
- 6.The pumping station, wastewater treatment.
- 7.The Bottom strainer is only built for H series; its function is to filter small objects and avoid objects from blocking the suction gap.
- 8.The base stand of L Series allows bigger solids to pass through.

ATTENTION

- 1.The Auto-cut automatically shuts off the motor to prevent overheating, voltage drops, a plugged impeller, low water level and other unusual conditions. In these cases, conditions need to be changed to avoid device failure.
- 2.The submersible pump relies on outside cooling water so cannot be used with a low water level.
- 3.Don't run over 24 hours. Proper usage will extend service life.
- 4.In the H and L series avoid pumping liquid with lots of sand or liquid with excessive acidity and alkalinity.
- 5.This model is used in weak-acid and weak alkaline wastewater. If draining highly corrosive liquid, use other pumps made of special materials.

STRUCTURAL DRAWING

Series



MATERIAL AND STANDARD TABLE

Liquid	Caliber	40mm • 50mm	
	Temperature	0°C~40°C(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 Mechanical Seal
	Material	Upper Cover	Aluminium alloy
		Bearing	Ball bearing
		Impeller	Engineering Strengthen Fiber Resin
		Volute Casing	FC-200
		Suction Casing Cover	Engineering Strengthen Fiber Resin
		Bottom Plate	Engineering Strengthen Fiber Resin
		Strainer	Engineering Strengthen Fiber Resin
		Lubricant	ISO VG.#32
		Seal	Silicon Carbide / Silicon Carbide
		Horse Nipple	PP
Motor	Type	Oil type	
	Material	Insulation class	B Class (130°C)
		Casing	H & L ⅓~⅓HP : SUS-304
		Main Shaft	SUS-403 / SUS-410
		Cable	PVC / VCT

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

K / Q series (SUS#316)



K-10315(A)



K-1052(A)
K-3052

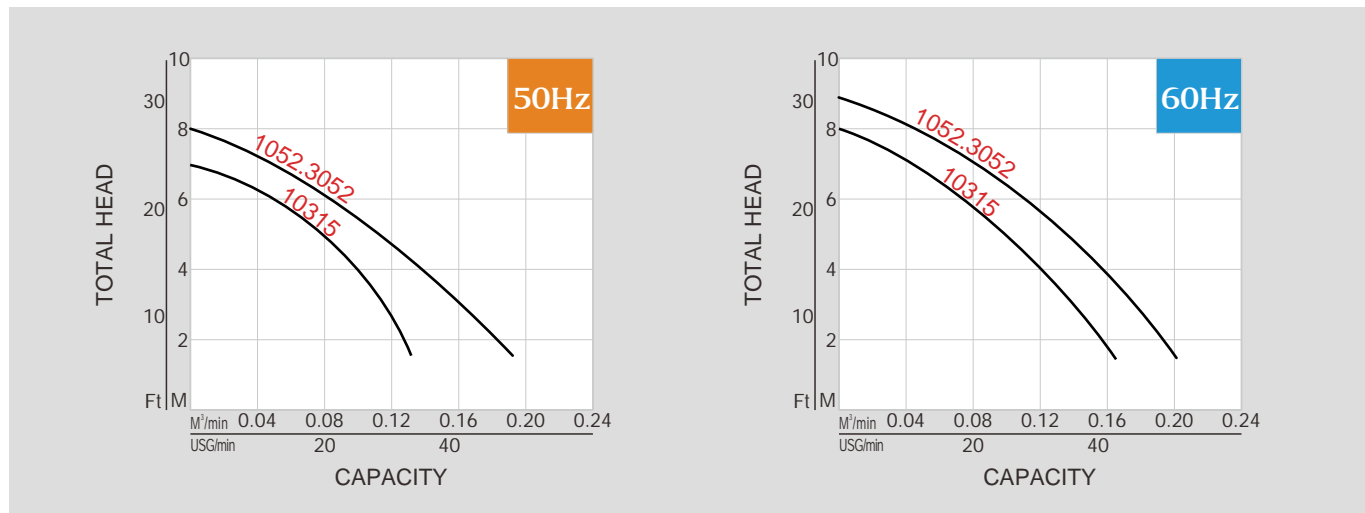


Q-1052(A)
Q-3052

FEATURES

- 1.Obtained a new design patent by intellectual property office, Ministry of Economic Affairs in Taiwan.
- 2.SIC mechanical seal in the stainless steel model resists moisture and corrosion.
- 3.Stainless housing stamped in one piece without seam is durable and easy to carry. The housing conforms to IEC IP68 standard.
- 4.A built-in auto-cut thermal protector prevents the motor from overheating.
- 5.With an open suspension impeller design, the water channel won't interfere with the bottom plate.
- 6.Special engineering-strength fiber resin impeller, plastic hose and bottom plate design to enhance durability.
- 7.It's light and handy, good design, durable, and easy to use. Just plug in the cable and it is ready to use.
- 8.The K & Q series volute casing is made of SCS 14 material dewaxing precision casting for a better waterproof and anti-leaking design. It is usable in weak acids and bases.

PERFORMANCE CURVE



SPECIFICATION

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

Model	Frequency		Phase	Voltage	Power		Discharge		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
K-10315(A)	50	60	1Ø	110/220	⅓	0.25	1½"	40	2P / 2850 / 3450	4	5	0.10	0.10	7	8	0.14	0.18	8
K/Q-1052(A)	50	60	1Ø	110/220	½	0.4	2"	50	2P / 2850 / 3450	5	6	0.11	0.11	8	9	0.22	0.22	10
K/Q-3052	50	60	3Ø	220/380	½	0.4	2"	50	2P / 2850 / 3450	5	6	0.11	0.11	8	9	0.22	0.22	10



Portable Sump Pump

APPLICATION

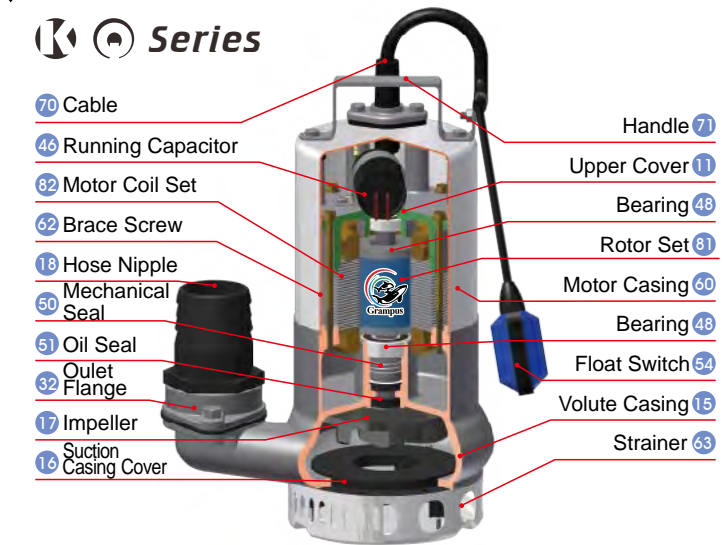
- 1.Household wastewater, standing water in basement, sewer wastewater drainage.
- 2.Washing car, watering garden, landscape flowing water.
- 3.Pond, septic tank and community sewage drainage.
- 4.Plant and general sewage pumping and sucking.
- 5.Weak-acid and weak-alkaline wastewater treatment of building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

ATTENTION

- 1.The Auto-cut automatically shuts off the motor to prevent overheating, voltage drops, a plugged impeller, low water level and other unusual conditions. In these cases, conditions need to be changed to avoid device failure.
- 2.The submersible pump relies on outside cooling water so cannot be used with a low water level.
- 3.Don't run over 24 hours. Proper usage will extend service life.
- 4.This model is used in weak-acid and weak alkaline wastewater. If draining highly corrosive liquid, use other pumps made of special materials.

STRUCTURAL DRAWING

K Q Series



MATERIAL AND STANDARD TABLE

Liquid	Caliber		40mm • 50mm
	Temperature		0°C~40°C(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 Mechanical Seal
	Material	Upper Cover	Aluminium alloy
		Bearing	Ball bearing
		Impeller	Engineering Strengthen Fiber Resin
		Volute Casing	SUS-316
		Suction Casing Cover	Engineering Strengthen Fiber Resin
		Strainer	SUS-304
		Lubricant	ISO VG.#32
		Seal	Silicon Carbide / Silicon Carbide
		Horse Nipple	PP
Motor	Type		Oil type
	Insulation class		B Class (130°C)
	Material	Casing	SUS-316
		Main Shaft	SUS-316
		Cable	VCT

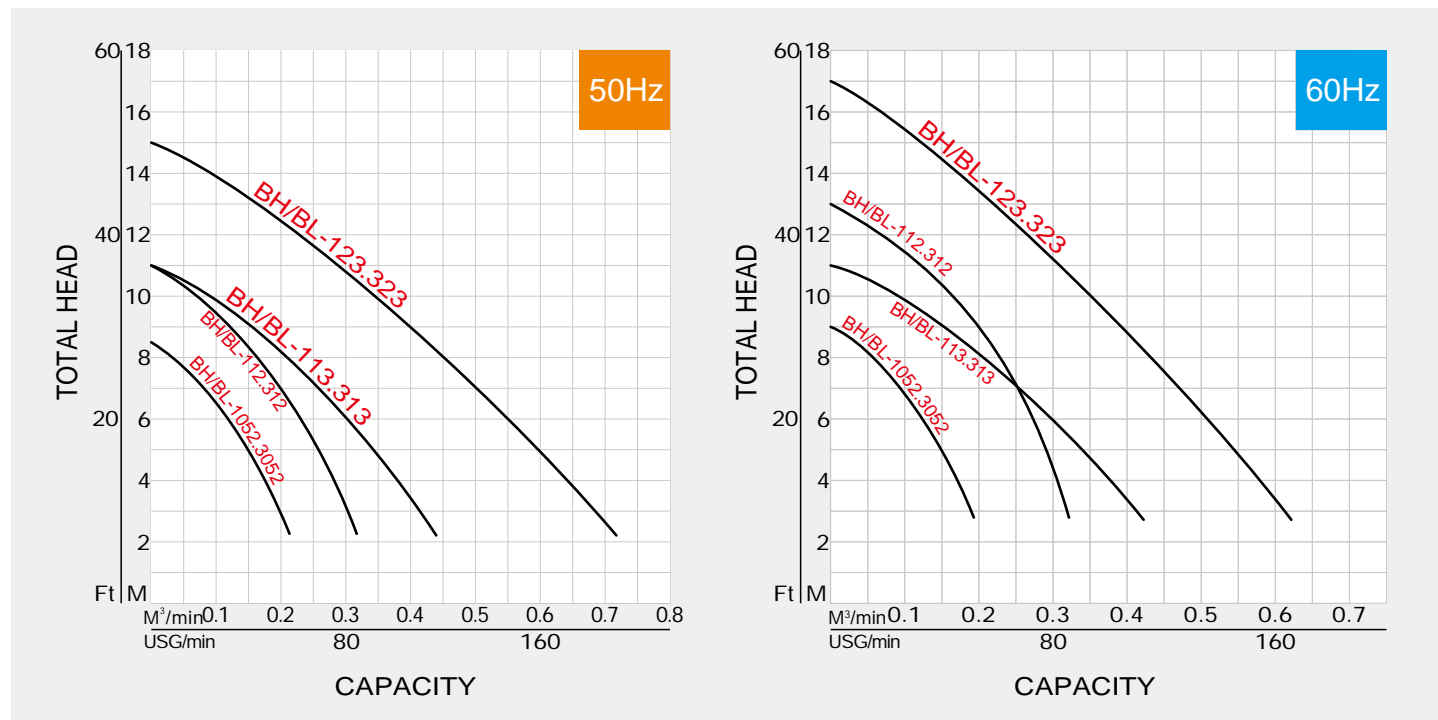
*Spare parts and material of pump could be made by request.

Multi-Usability Sewage Pump (Oil Type Motor)

※ Elbow is sold separately for flange-type pumps.



PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency		Phase	Power		Discharge		Pole/Rotation	Std.Head		Std.Flow		Max.Head		Max.Flow		Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm	M		M³/min		M		M³/min		KG	mm
BH/BL-1052(A)(AL)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450	5	5	0.15	0.15	8.5	9	0.25	0.25	13.5	35
BH/BL-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450	5	5	0.15	0.15	8.5	9	0.25	0.25	13	35
BH/BL-112(A)(AL)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450	7	8	0.20	0.20	11	13	0.35	0.40	15.5	35
BH/BL-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450	7	8	0.20	0.20	11	13	0.35	0.40	15	35
BH/BL-113(J)(A)(AL)	50	60	1Ø	1	0.75	2"-3"	50-80	2P / 2850 / 3450	6	8	0.30	0.30	11	13	0.50	0.60	17.5	35
BH/BL-313(J)	50	60	3Ø	1	0.75	2"-3"	50-80	2P / 2850 / 3450	6	8	0.30	0.30	11	13	0.50	0.60	17	35
BH/BL-123(J)(A)	50	60	1Ø	2	1.5	2"-3"	50-80	2P / 2850 / 3450	10	10	0.35	0.35	17	17	0.70	0.75	21.5	35
BH/BL-323(J)	50	60	3Ø	2	1.5	2"-3"	50-80	2P / 2850 / 3450	10	10	0.35	0.35	17	17	0.70	0.75	20.5	35



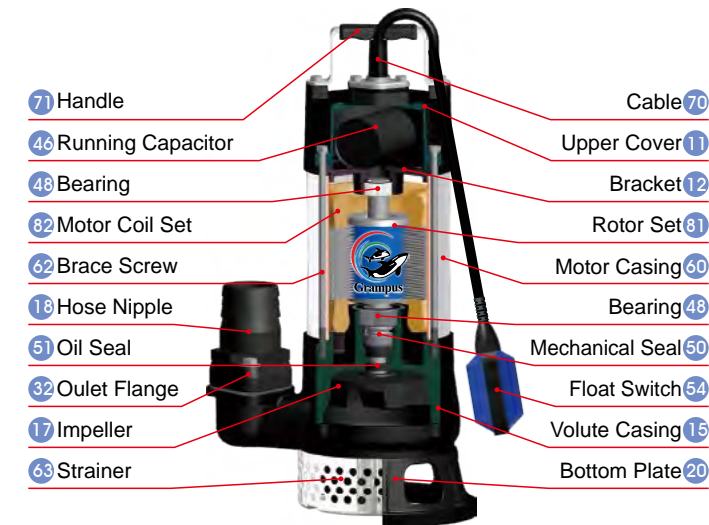
FEATURES

- 1.Cable base and core wire are manufactured with Epoxy resin treatment to effectively block moisture from penetrating the motor from the cable seam.
- 2.The volute casing is equipped with a vortex impeller.
- 3.High-intensity plastic impeller, strainer, and stand are rustproof and durable.
- 4.Equipped with a high-quality dual SiC mechanical seal.
- 5.The motor has the standards of IEC IP68.
- 6.A Single-phase motor is equipped with a built-in thermal protector.

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
	Temperature		0°C~40°C(32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wasterwater of food, paper, mining, textile, leather, dyeing and metal.
	The lowest depth		▽30 M
Pump	Structure	Impeller	Vortex Impeller
		Seal	Single Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	Engineering Strengthen Fiber Resin
		Volute Casing	FC-200
		Bottom Plate	Engineering Strengthen Fiber Resin
		Strainer	SUS-304
		Lubricant	ISO VG.#32
		Seal	Silicon Carbide / Silicon Carbide
Motor	Type		Submersible oil type
	Insulation class		B Class (130°C)
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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



Multi-Usability Stainless Steel Sewage Pump (Oil Type Motor)



PL-112
PL-312

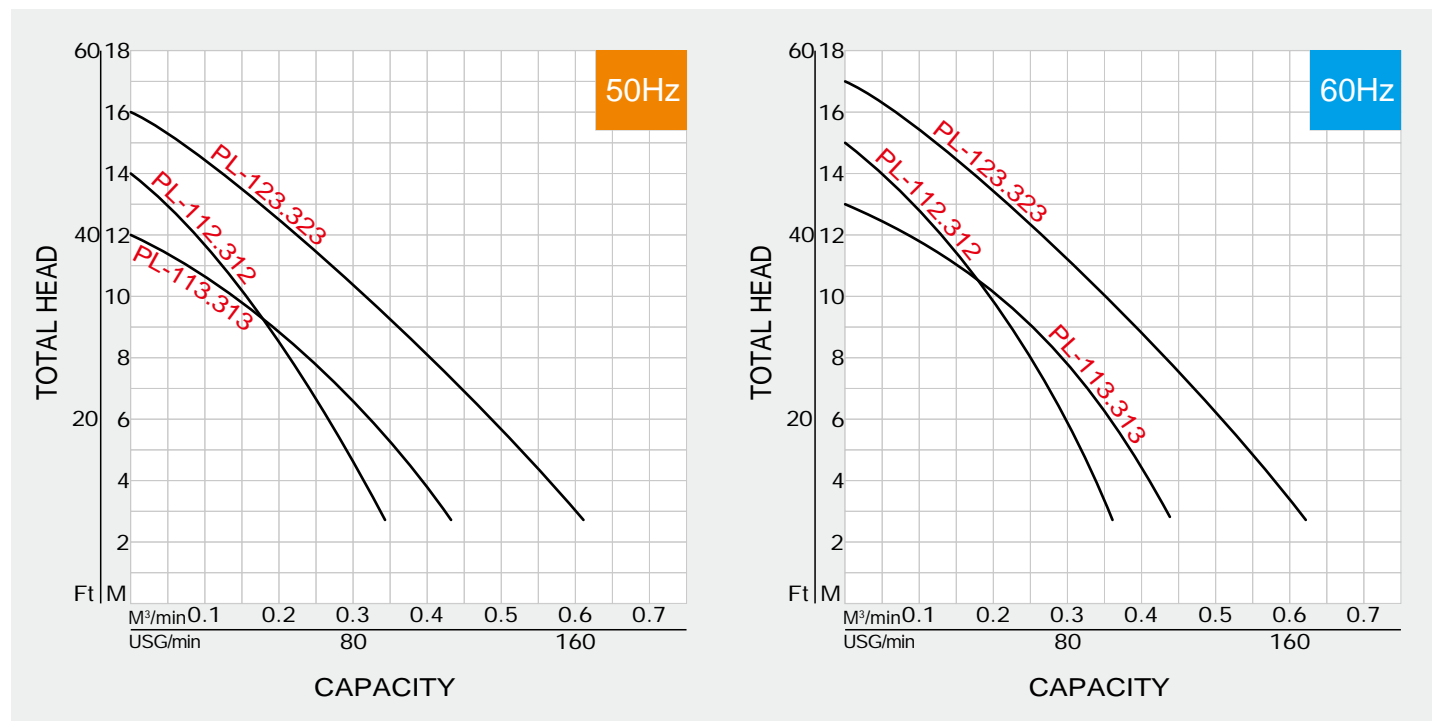


PL-113
PL-313
PL-123
PL-323



PL-112(A)
PL-113(A)
PL-123(A)

PERFORMANCE CURVE



SPECIFICATION

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

Type	Frequency		Phase	Power		Discharge		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	mm
PL-112(A)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		8	8	0.21	0.25	14	15	0.40	0.40	15.5	35
PL-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		8	8	0.21	0.25	14	15	0.40	0.40	15	35
PL-113(A)	50	60	1Ø	1	0.75	2"-3"	50-80	2P / 2850 / 3450		7	7	0.27	0.30	12	13	0.50	0.50	17.5	35
PL-313	50	60	3Ø	1	0.75	2"-3"	50-80	2P / 2850 / 3450		7	7	0.27	0.30	12	13	0.50	0.50	17	35
PL-123(A)	50	60	1Ø	2	1.5	2"-3"	50-80	2P / 2850 / 3450		10	10	0.32	0.35	16	17	0.70	0.70	21.5	35
PL-323	50	60	3Ø	2	1.5	2"-3"	50-80	2P / 2850 / 3450		10	10	0.32	0.35	16	17	0.70	0.70	20.5	35

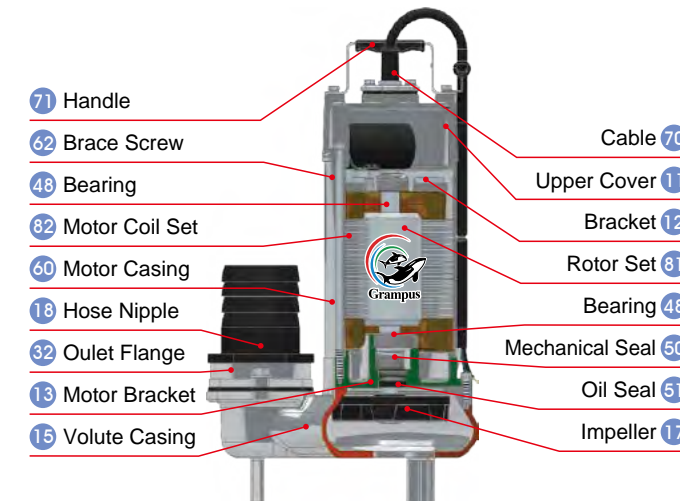
FEATURES

- 1.Cable base and core wire are manufactured with Epoxy resin treatment to effectively block moisture from penetrating the motor from the cable seam.
- 2.The volute casing is equipped with a vortex impeller.
- 3.High-intensity plastic impeller, strainer, and stand are rustproof and durable.
- 4.Equipped with a high-quality dual SiC mechanical seal.
- 5.The motor has the standards of IEC IP68.
- 6.A Single-phase motor is equipped with a built-in thermal protector.

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

	Caliber		50mm • 80mm
Liquid	Temperature		0°C~40°C(32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wasterwater of food, paper, mining, textile, leather, dyeing and metal.
	The lowest depth		▽10 M
	Structure	Impeller	Vortex Impeller
Seal		Single Mechanical Seal	
Pump	Material	Upper Cover	SCS14
		Bearing	Heavy-duty bearing
		Impeller	Engineering Strengthen Fiber Resin
		Volute Casing	SCS14
		Motor Bracket	SCS14
		Lubricant	ISO VG.#32
		Seal	Silicon Carbide / Silicon Carbide
		Motor	Type
Insulation class	B Class (130°C)		
Inner protector	Auto Reset Motor Protector		
Material	Casing		SUS-316
	Main Shaft		SUS-316
	Cable		Standard VCT

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

Non-Clog Sewage Pump

※ Elbow is sold separately for flange-type pumps.



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



(A) Float Switch



(AL) Standing Float Switch



B-123
B-333
B-323



B-112J B-123J
B-312J B-323J
B-333J

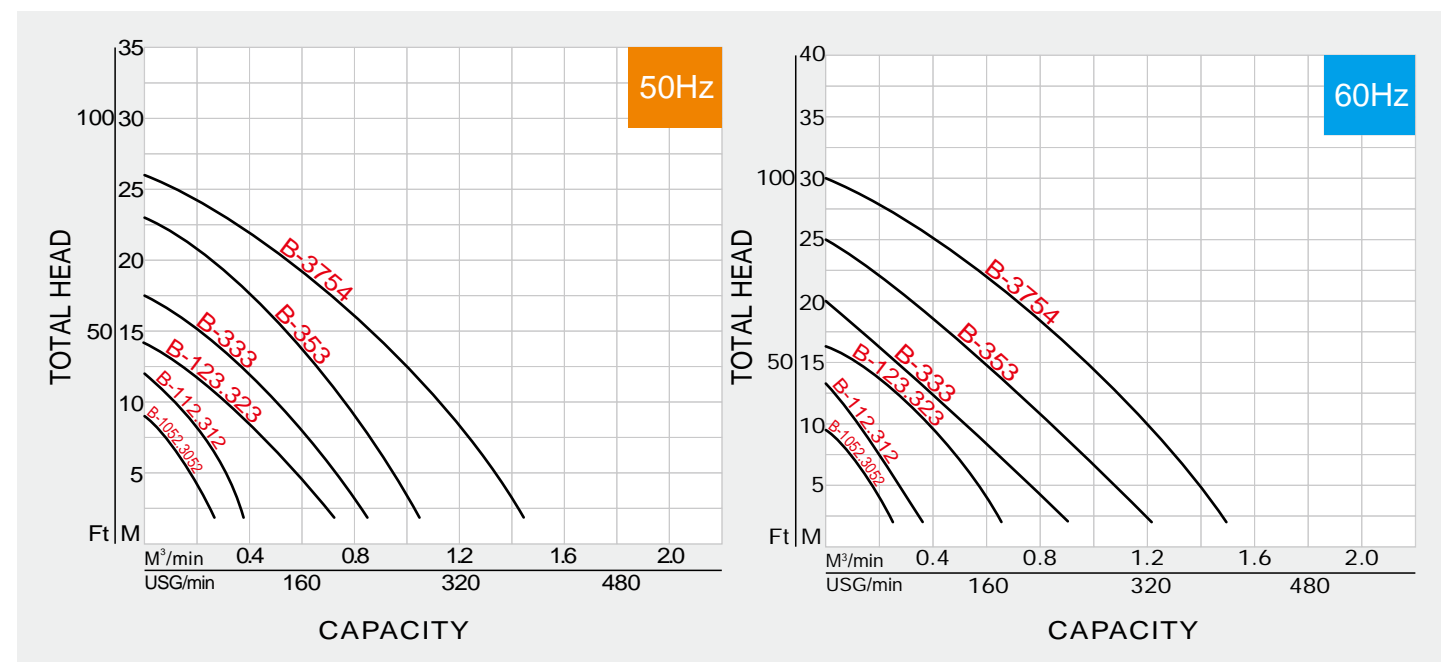


B-353



B-3754

PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency		Phase	Power		Discharge		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
B-1052(A)(AL)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450		4	4	0.20	0.20	9	10	0.30	0.27	18	27	35
B-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450		4	4	0.20	0.20	9	10	0.30	0.27	17	26	35
B-112(A)(AL)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		8	8	0.20	0.20	12	13	0.40	0.40	20	29	35
B-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		8	8	0.20	0.20	12	13	0.40	0.40	20	29	35
B-123(J)	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		7	10	0.50	0.35	14.5	16	0.80	0.75	35	55	40
B-323(J)	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		7	10	0.50	0.35	14.5	16	0.80	0.75	34	54	40
B-333(J)	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		10	11	0.50	0.50	17.5	20	0.90	1.00	37	57	40
B-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		16.5	18	0.50	0.50	23	25	1.10	1.40	45	65	40
B-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		12.5	21	1.00	0.70	26	30	1.50	1.55	55	75	50



Vortex Non-Clog Impeller



Stainless Steel Vortex Non-Clog Impeller

FEATURES

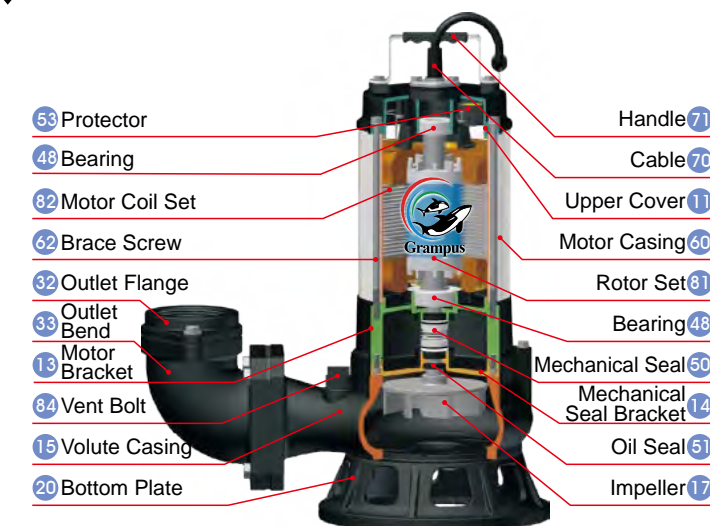
- 1.Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
- 2.The volute casing is equipped with a vortex impeller.
- 3.The volute casing is equipped with a vent bolt to avoid air locks.
- 4.Equipped with a high-quality dual SIC mechanical seal.
- 5.The motor has insulation in accordance with the standards of IEC IP68.
- 6.Auto-cut prevents the motor from overheating.
- 7.This type can be equipped with a lift bracket.

APPLICATION

- 1.Wastewater lift station, municipal wastewater treatment plant.
- 2.Building a 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.

Non-Clog Sewage Pump

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

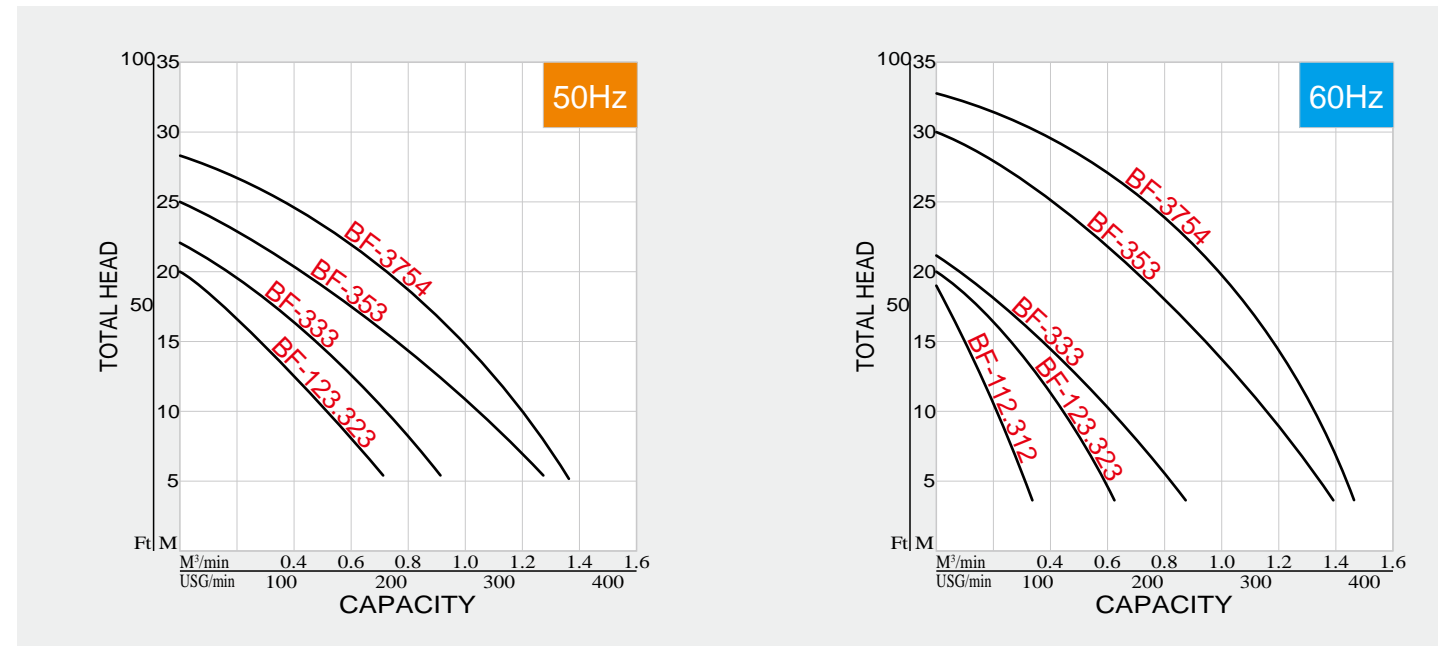
Liquid	Caliber		50mm • 80mm • 100mm
	Temperature		0°C~40°C(32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wastewater of food, paper, mining, textile, leather, dyeing and metal.
	The lowest depth		▽30 M
Pump	Structure	Impeller	Vortex Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200 / SCS13: 7.5HP
		Volute Casing	FC-200
		Bottom Plate	½~1HP:Engineering Strengthen Fiber Resin(STD) 2~7.5HP:FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Seal	Lubricant
	Motor Side		Carbon / Ceramic
Pump Side	Silicon Carbide / Silicon Carbide		
Motor	Type	Submersible dry type	
	Insulation class	0.5~1HP: B / 2~5HP: F / 7½: H	
	Inner protector	Auto Reset Motor Protector	
	Casing	SUS-304	
	Main Shaft	SUS-410 / SUS-420	
	Cable	Standard VCT	

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

※ Elbow is sold separately for flange-type pumps.



PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency		Phase	Power		Discharge		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		BF Weight	TOS-BF Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	KG	mm
BF-112(A)(AL)	-	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		-	10	-	0.20	-	19	-	0.40	18	28	20
BF-312	-	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		-	10	-	0.20	-	19	-	0.40	18	28	20
BF-123(J)	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		10	11	0.50	0.40	20	20	0.90	0.70	34	54	20
BF-323(J)	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		10	11	0.50	0.40	20	20	0.90	0.70	34	54	20
BF-333(J)	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		14	12	0.50	0.50	22	21	1.10	1.00	37	57	35
BF-353(J)	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		18	20	0.50	0.70	25	30	1.50	1.50	45	65	35
BF-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		15	24	1.00	0.80	28	33	1.50	1.55	55	75	35



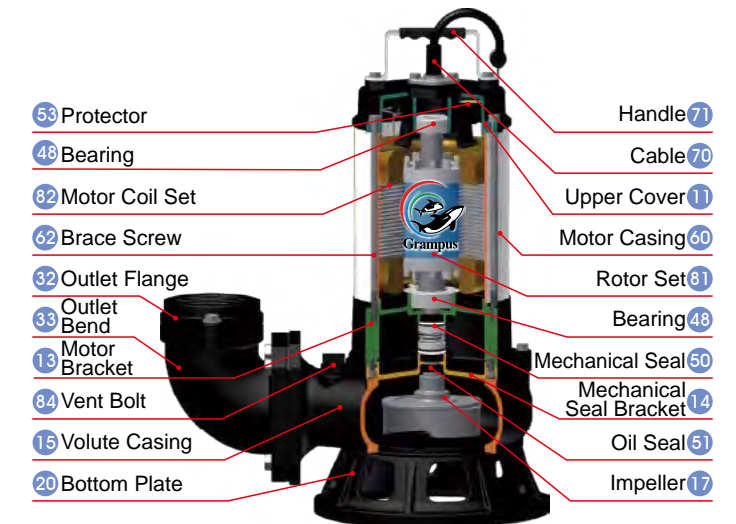
FEATURES

1. Designed with high-efficiency stainless steel, semi-open impeller and double-wings to prevent blockage.
2. Cable base and core wire are manufactured with Epoxy resin treatment to block the moisture from entering the motor.
3. The volute casing is equipped with a vent bolt to avoid air locks.
4. Equipped with a high-quality dual SIC mechanical seal.
5. The motor has insulation in accordance with the standards of IEC IP68.
6. Auto-cut prevents the motor from overheating.
7. This type can be equipped with a lift bracket.

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	Semi-open Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200 / SCS13
		Volute Casing	FC-200
		Bottom Plate	FC-200
		Motor Bracket	FC-200
	Seal	Mechanical Seal Bracket	FC-200
		Lubricant	ISO VG.#32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		1~5HP: F Class / 7½: H Class
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS-420
	Cable		Standard VCT

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

※ Elbow is sold separately for flange-type pumps.

(Maximum Solid Passage 50 / 65 / 80mm)

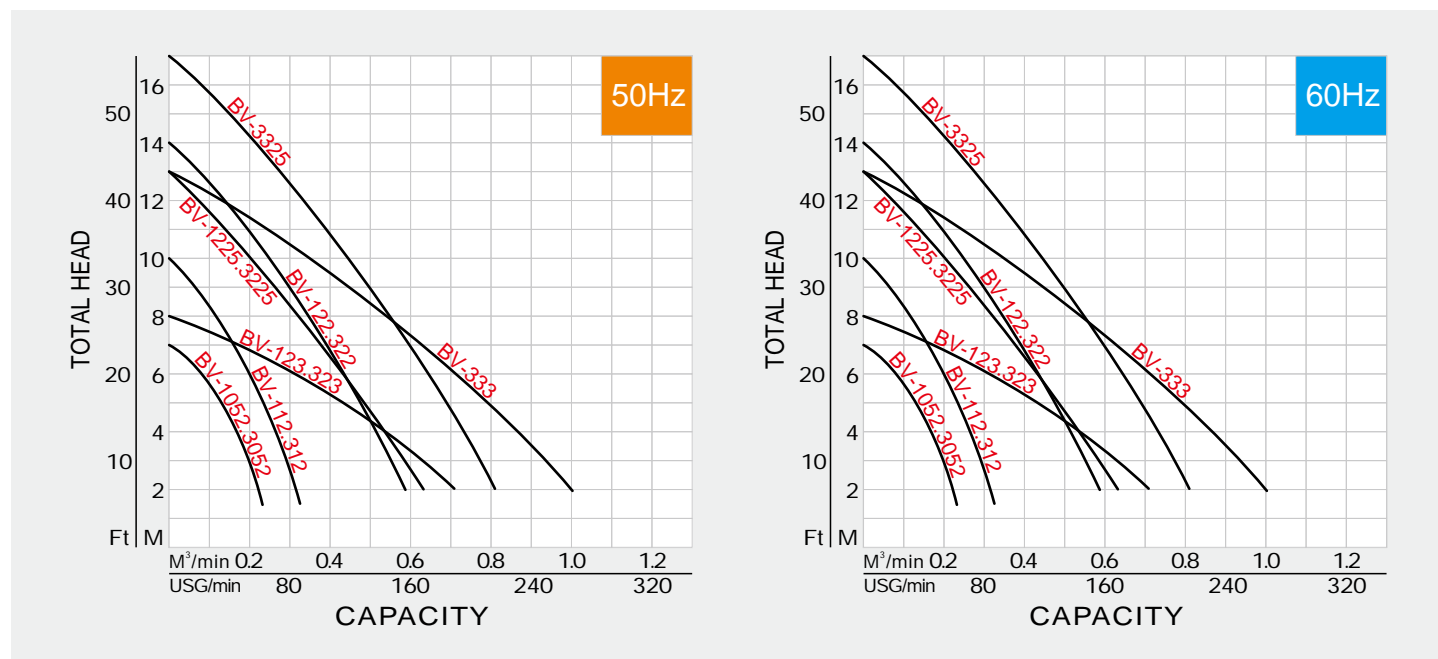
BV-1052(A)(AL)
BV-3052
BV-112(A)(AL)
BV-312

(A) Float Switch

(AL) Standing
Float SwitchBV-122
BV-322BV-1225
BV-3225
BV-3325BV-123
BV-323
BV-333

Youtube

PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency		Phase	Power		Discharge		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
BV-1052(A)(AL)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450		4.5	4.5	0.15	0.15	7	7	0.25	0.25	16.5	26.5	50
BV-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450		4.5	4.5	0.15	0.15	7	7	0.25	0.25	15	25	50
BV-112(A)(AL)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		6	6	0.20	0.20	10	10	0.35	0.35	18.5	28.5	50
BV-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		6	6	0.20	0.20	10	10	0.35	0.35	17.5	27.5	50
BV-122	50	60	1Ø	2	1.5	2"	50	2P / 2850 / 3450		9	10	0.30	0.30	14	16	0.65	0.65	35	55	50
BV-322	50	60	3Ø	2	1.5	2"	50	2P / 2850 / 3450		9	10	0.30	0.30	14	16	0.65	0.65	31.5	51.5	50
BV-1225	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		8.4	8.4	0.30	0.30	13	13	0.72	0.72	36	56	65
BV-3225	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		8.4	8.4	0.30	0.30	13	13	0.72	0.72	32	52	65
BV-123	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		5.3	5.3	0.40	0.40	8	8	0.84	0.84	38	58	80
BV-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		5.3	5.3	0.40	0.40	8	8	0.84	0.84	34	54	80
BV-3325	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		12.6	12.6	0.30	0.30	17	17	0.87	0.87	36	56	65
BV-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		9.5	9.5	0.40	0.40	13	13	1.10	1.10	38	58	80



Full Free Passage Sewage Pump

(Maximum Solid Passage 50 / 65 / 80mm)

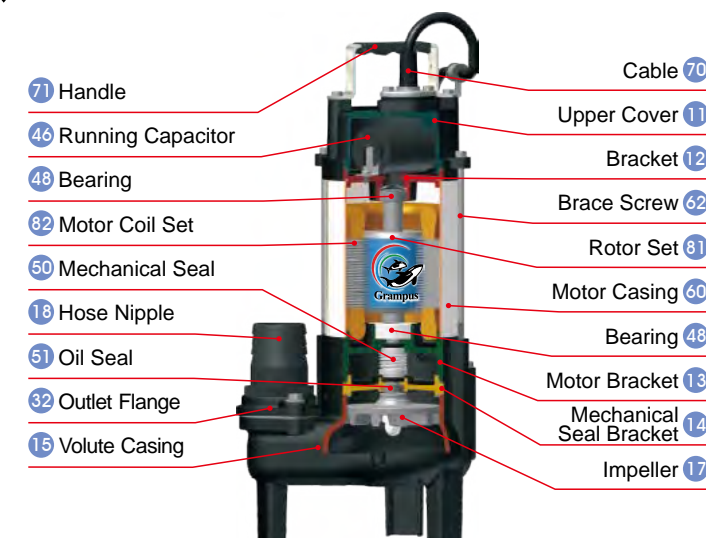
FEATURES

- 1.For this BV series pump solids may pass since, the grain diameter can be up to 50 & 65 & 80 mm.
- 2.Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
- 3.The volute casing is equipped with the vortex impeller.
- 4.To avoid air locks, the volute casing is equipped with a vent bolt.
- 5.Equipped with a high-quality dual SIC mechanical seal.
- 6.The motor has the standards of IEC IP68.
- 7.Auto-cut prevents the motor from overheating.
- 8.This type can be equipped with a lift bracket.

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
	Temperature		0°C~40°C(32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wasterwater 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
	Motor Side		Carbon / Ceramic
Pump Side	Silicon Carbide / Silicon Carbide		
Motor	Type		Submersible dry type
	Insulation class		0.5~1HP: B Class / 2~3HP: F Class
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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

Submersible High Head Pump

※ Elbow is sold separately for flange-type pumps.

A-112(A)(AL)
A-312



(A) Float Switch



(AL) Standing
Float Switch

A-123
A-323
A-333
A-353



A-123J
A-323J
A-333J
A-353J

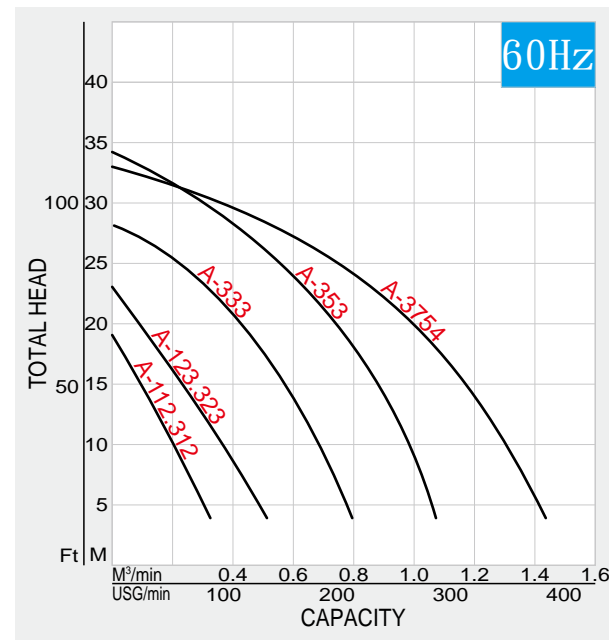


A-3754



High Efficiency
Impeller

PERFORMANCE CURVE



SPECIFICATION

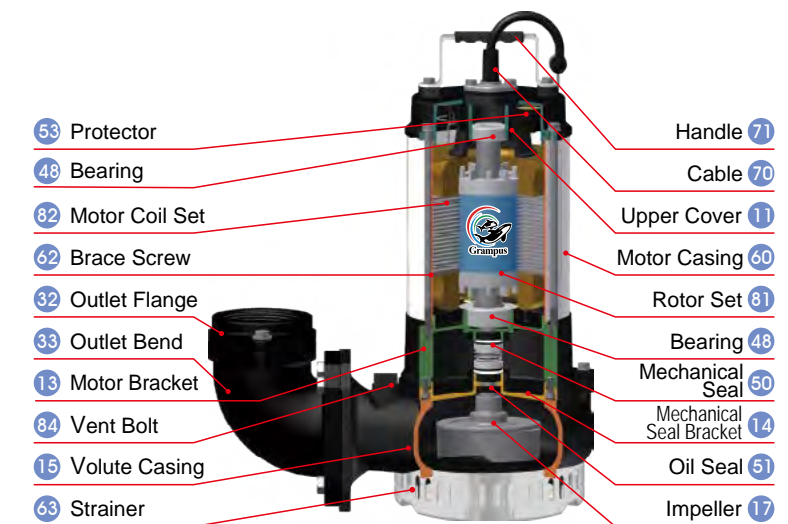
※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency	Phase	Power		Discharge		Pole/Rotation	Std.Head	Std.Flow	Max.Head	Max.Flow	Weight
TYPE	Hz	PH	HP	KW	Inch	mm	P/rpm	M	M³/min	M	M³/min	KG
A-112(A)(AL)	60	1Ø	1	0.75	2"	50	2P/3450	10	0.20	19	0.40	16.8
A-312	60	3Ø	1	0.75	2"	50	2P/3450	10	0.20	19	0.40	16.8
A-123(J)	60	1Ø	2	1.5	3"	80	2P/3450	12	0.35	23	0.60	34
A-323(J)	60	3Ø	2	1.5	3"	80	2P/3450	12	0.35	23	0.60	34
A-333(J)	60	3Ø	3	2.2	3"	80	2P/3450	17	0.50	28.5	0.85	37
A-353(J)	60	3Ø	5	3.7	3"	80	2P/3450	24	0.60	34.5	1.15	45
A-3754	60	3Ø	7.5	5.5	4"	100	2P/3450	24	0.80	33	1.50	55



Submersible High Head Pump

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm • 80mm • 100mm	
	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	Semi-open Impeller
		Seal	Single(1HP) / 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	FC-200 / SCS13
		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 oil type(1HP) / dry type
	Insulation class		F class(155°C)
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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

FEATURES

- 1.Cable base and core wire are manufactured with a special waterproof treatment to block moisture from entering the motor.
- 2.The impeller has been calibrated for long service life.
- 3.Main shaft, motor housing, screws, and strainer are made of stainless steel for corrosion resistance.
- 4.Excellent performance, stability, reduce electricity cost, larger flow, and easy installation and maintenance.
- 5.Equipped with a high-quality dual SIC mechanical seal.
- 6.The motor has F class (155°C)insulation, in accordance with the standards of IEC IP68.
- 7.A built-in thermal overload protector in the A series pumps prevents overheating.

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 water delivery.

Non-Clog Stainless Steel Sewage Pump

※ Elbow is sold separately for flange-type pumps.

P-1052A
P-112A



P-1052
P-3052
P-112
P-312



P-123
P-323
P-333
P-353



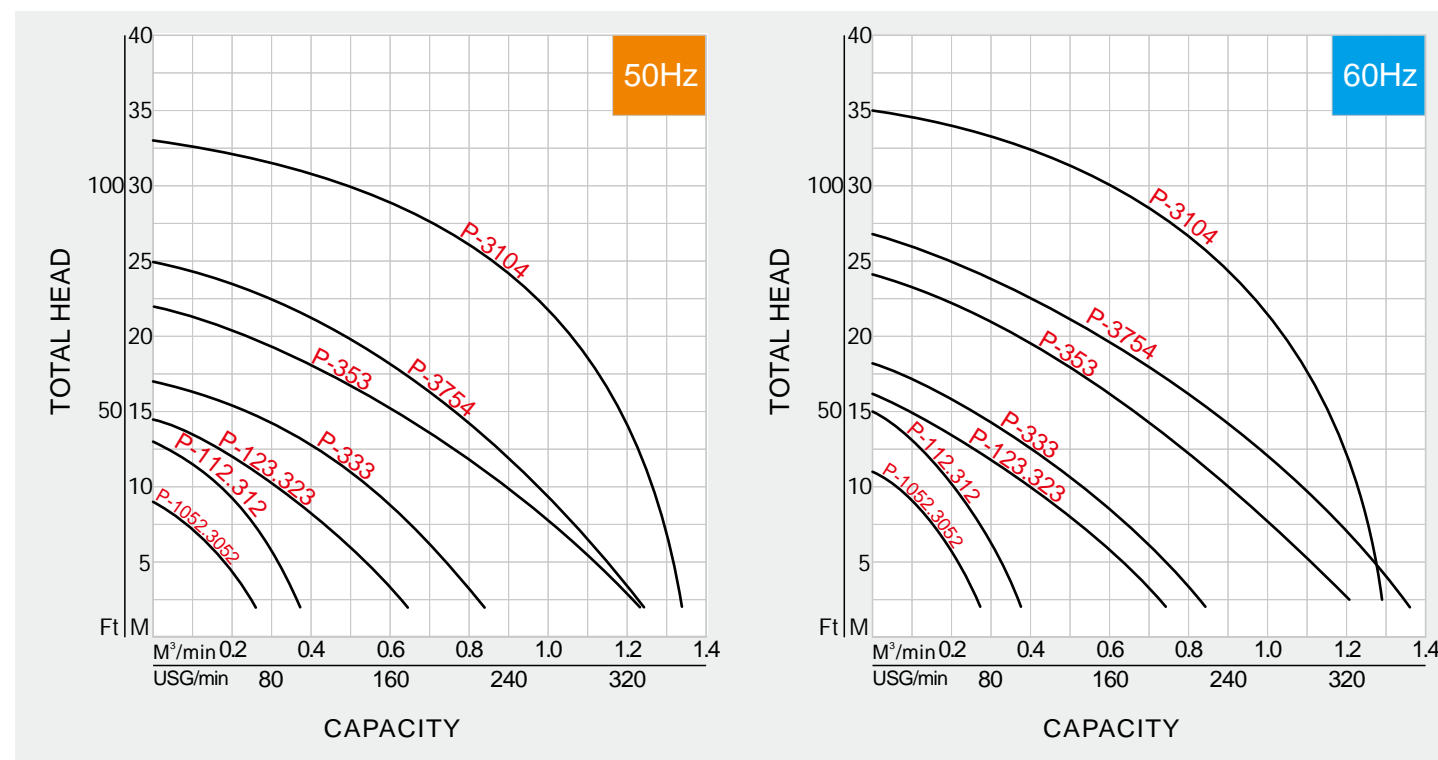
P-123J
P-333J
P-323J
P-353J



P-3754
P-3104



PERFORMANCE CURVE



SPECIFICATION

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

Type	Frequency		Phase	Power		Discharge		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		P Weight	TUS-P Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	KG	mm
P-1052(A)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450		4	6	0.20	0.20	9	11	0.25	0.30	15	26	35
P-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450		4	6	0.20	0.20	9	11	0.25	0.30	15	26	35
P-112(A)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		9	8	0.20	0.25	12	15	0.40	0.40	18	29	35
P-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		9	8	0.20	0.25	12	15	0.40	0.40	18	29	35
P-123(J)	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		6	9	0.50	0.45	13	16.5	0.70	0.80	36	54	40
P-323(J)	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		6	9	0.50	0.45	13	16.5	0.70	0.80	35	53	40
P-333(J)	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		11.5	10	0.50	0.55	17	18	0.90	0.90	42	60	45
P-353(J)	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		17	17	0.50	0.55	22	24	1.30	1.30	45	63	40
P-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		9.5	18	1.00	0.70	25	27	1.30	1.40	55	73	50
P-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450		22	22	1.00	1.00	33	35	1.35	1.30	60	78	50

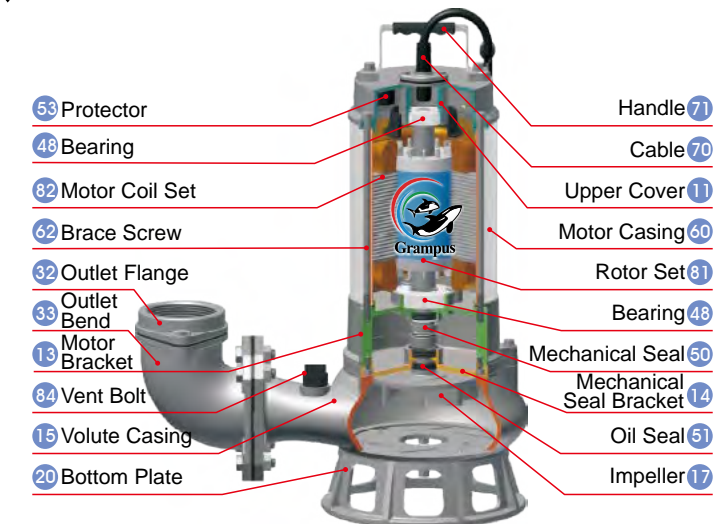


Non-Clog Stainless Steel Sewage Pump

FEATURES

- 1.The pump cover is made with SCS14 dewaxing precision casting manufactured to resist weak acid and alkaline wastewater.
- 2.Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
- 3.The volute casing is equipped with a vortex impeller for pumping mud and sewage effectively without clogging.
- 4.The mechanical seal parts are combined with high-quality double silicon carbide to enhance stainless steel pumps to work in weak acid and alkaline environments.
- 5.The motor has insulation in accordance with the standards of IEC IP68.
- 6.Auto-cut prevents the motor from overheating.
- 7.This type can be equipped with a lift bracket.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

	Caliber		50mm • 80mm • 100mm
Liquid	Temperature		0°C~40°C(32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wasterwater of food, paper, mining, textile, leather, dyeing and metal.
	The lowest depth		▽30 M
	Pump	Structure	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-316
		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		Submersible dry type
	Insulation class		0.5~1HP: B / 2~5HP:F / 7½~10HP: H
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-316
		Main Shaft	SUS-316
		Cable	Standard VCT

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

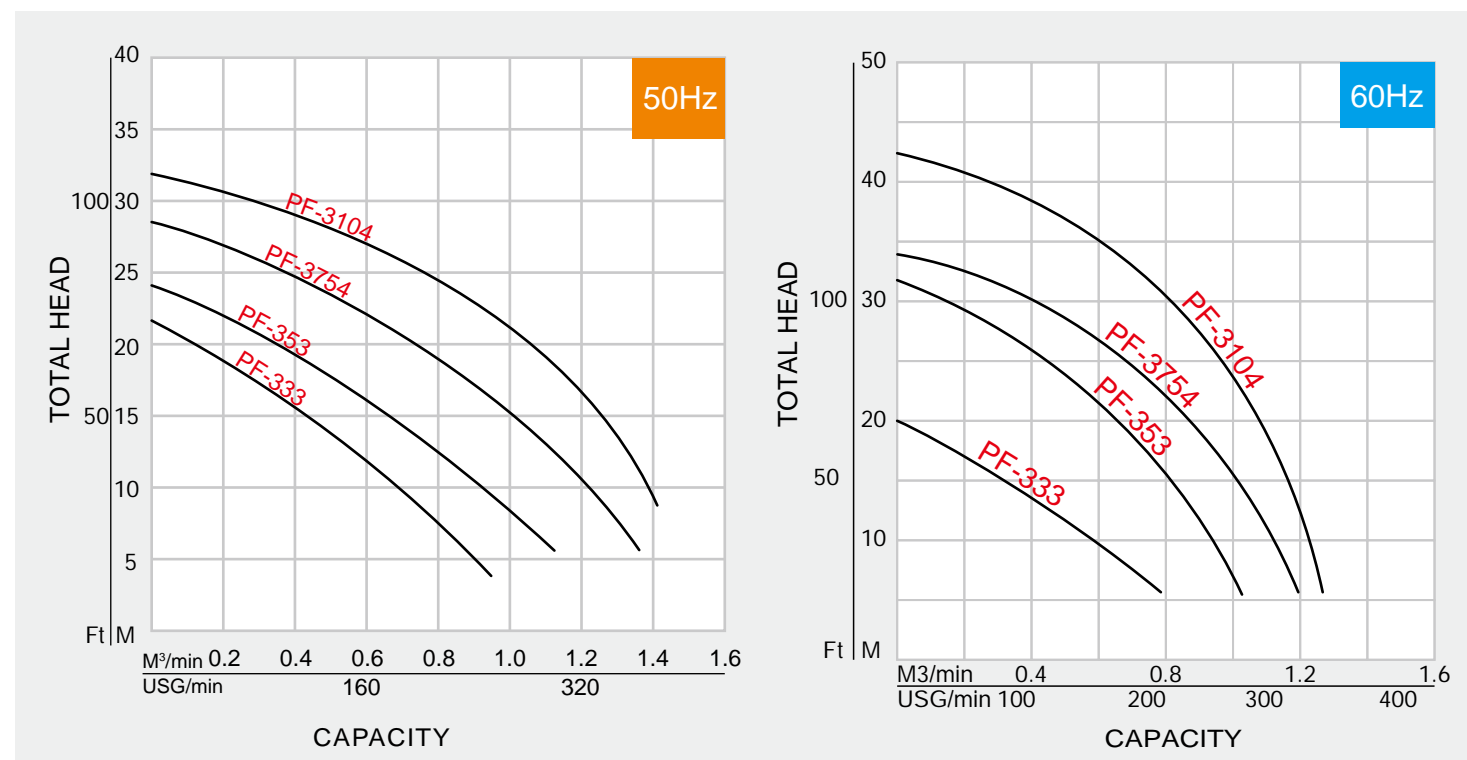
APPLICATION

- 1.Wastewater lift station, municipal wastewater treatment plant.
- 2.Building a 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.

※ Elbow is sold separately for flange-type pumps.

PF-333
PF-353PF-333J
PF-353JPF-3754
PF-3104High Efficiency
Impeller

PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Discharge		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		PF Weight	TUP-PF Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	KG	mm
PF-333(J)	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		13	12	0.50	0.50	22	20	1.10	1.00	38	55	35
PF-353(J)	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		18	20	0.50	0.65	24	32	1.35	1.10	45	63	35
PF-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		15	23	1.00	0.80	28	34	1.50	1.25	55	73	35
PF-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450		21	24	1.00	1.00	32	42	1.60	1.30	60	78	35



High Efficiency Stainless Steel Sewage Pump

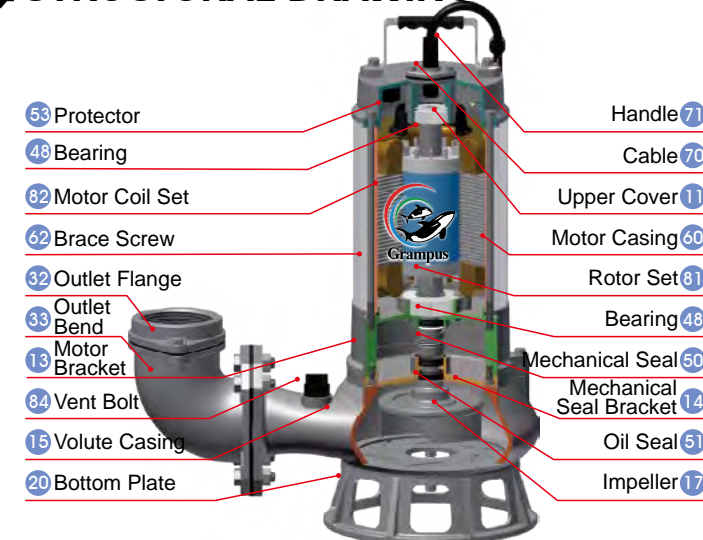
FEATURES

1. Designed with high-efficiency stainless steel, semi-open impeller and double-wings to prevent blockage.
2. The pump cover is made with SCS14 dewaxing precision casting manufactured to resist weak acid and alkaline wastewater.
3. Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
4. The mechanical seal parts are combined with high-quality double silicon carbide to enhance stainless steel pumps to work in weak acid and alkaline environments.
5. The motor has insulation in accordance with the standards of IEC IP68.
6. Auto-cut prevents the motor from overheating.
7. This type can be equipped with a lift bracket.

APPLICATION

1. Wastewater lift station, municipal wastewater treatment plant.
2. Building a 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		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	Semi-open 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
		Bottom Plate	SCS14
	Seal	Lubricant	ISO VG.#32
		Motor Side	Carbon / Ceramic
Pump Side		Silicon Carbide / Silicon Carbide	
Automatic lifting frame device			SCS13
Motor	Type		Submersible dry type
	Insulation class		3~5HP: F Class / 7½~10HP: H Class
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-316
		Main Shaft	SUS-316
		Cable	Standard VCT

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



Apparatus Use Sewage Pump (4P)



AS-112N
AS-312N



AS-323S



AS-333P(N)
AS-353P(N)



AS-3154C



AS-3754N
AS-3104N
AS-3756C
AS-3106C
AS-3156C
AS-3206C



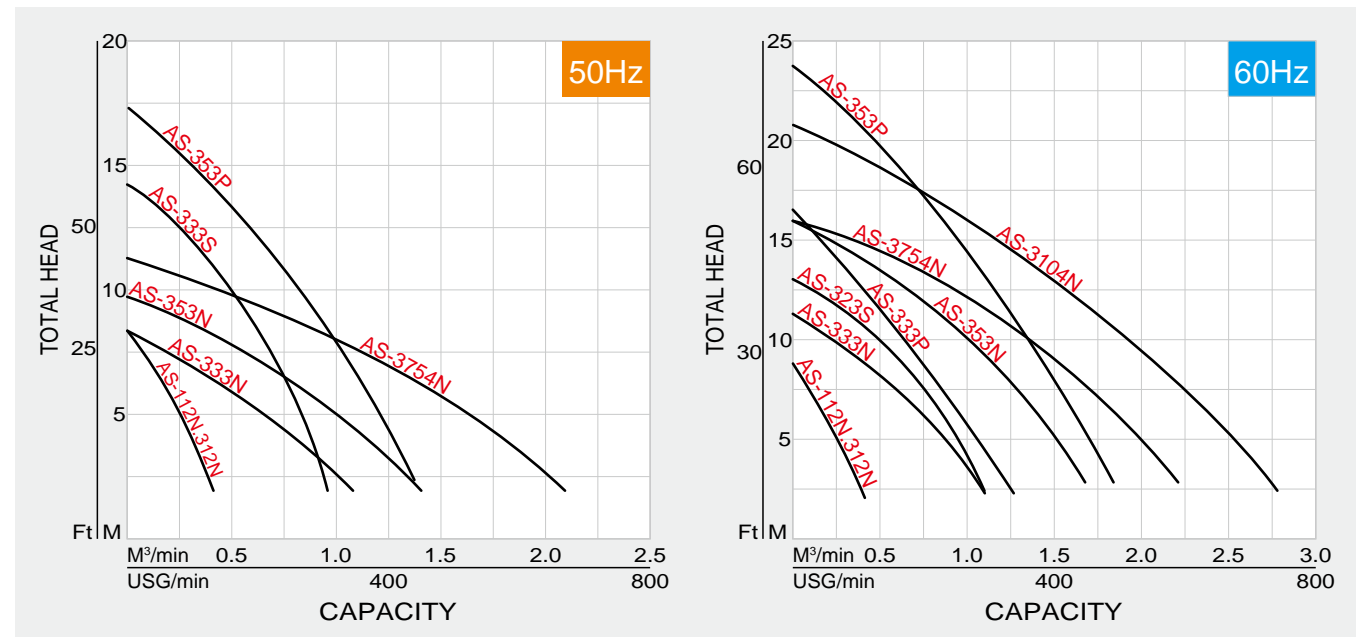
AS-3158C
AS-3208C



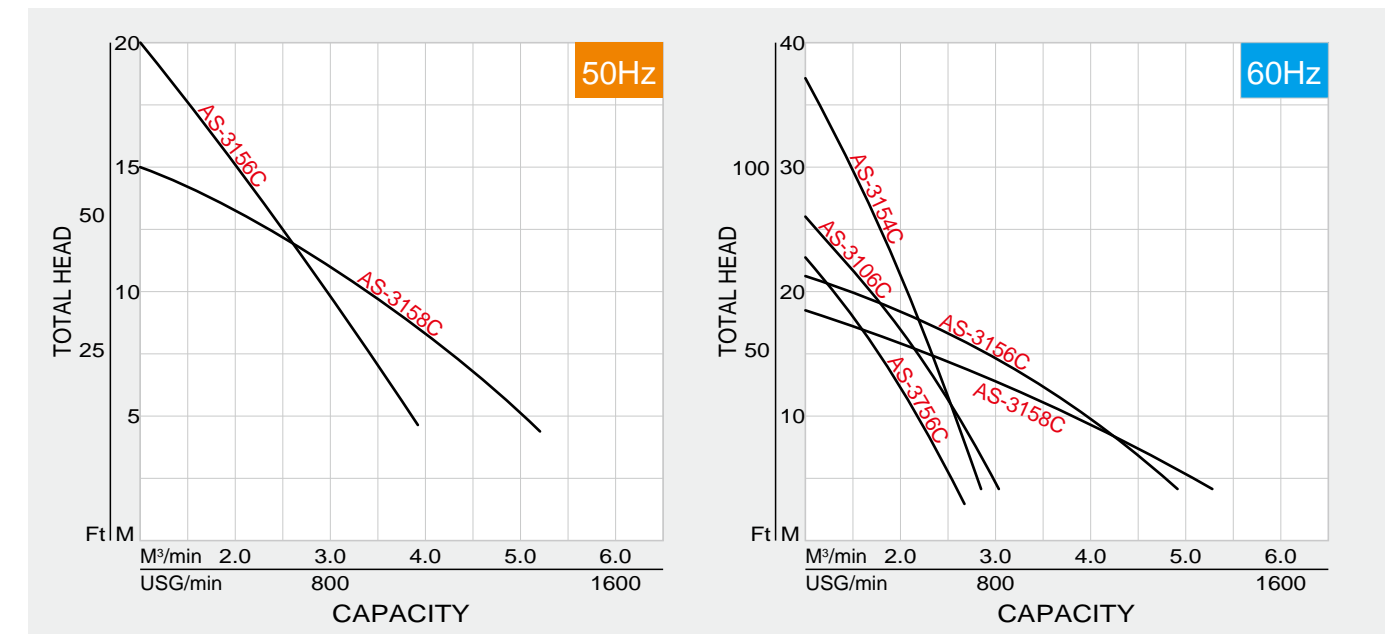
AS-3256C
AS-3306C
AS-3408C





PERFORMANCE CURVE




PERFORMANCE CURVE



SPECIFICATION

Model	Type	Frequency		Phase	Start Method	Power		Discharge		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	M ³ /min	M	M ³ /min	KG	KG	mm					
 Non-clog Impeller	AS-112N	50	60	1Ø	Direct	1	0.75	2"	50	4P / 1425 / 1725	5	5	0.30	0.30	8.5	8.5	0.50	0.50	34	44	50	
	AS-312N	50	60	3Ø	Direct	1	0.75	2"	50	4P / 1425 / 1725	5	5	0.30	0.30	8.5	8.5	0.50	0.50	32	42	50	
	AS-333N	50	60	3Ø	Direct	3	2.2	3"	80	4P / 1425 / 1725	6	7	0.60	0.65	8.5	11	1.30	1.20	71	91	57	
	AS-353N	50	60	3Ø	Direct	5	3.7	3"	80	4P / 1425 / 1725	6	10	0.70	1.00	9.5	16	1.60	1.80	75	95	42	
	AS-3754N	50	60	3Ø	Direct	7½	5.5	4"	100	4P / 1425 / 1725	8	12	1.00	1.00	11.5	16	2.30	2.40	143	163	65	
 Semi-open Impeller	AS-3104N	—	60	3Ø	Direct	10	7.5	4"	100	4P / --- / 1725	—	16	—	1.00	—	21	—	2.90	148	168	60	
	AS-323S	—	60	3Ø	Direct	2	1.5	3"	80	4P / --- / 1725	—	10	—	0.50	—	13	—	1.20	43	63	40	
	AS-333P	50	60	3Ø	Direct	3	2.2	3"	80	4P / 1425 / 1725	10	10	0.50	0.60	14	17	1.00	1.40	72	92	50	
	AS-353P	50	60	3Ø	Direct	5	3.7	3"	80	4P / 1425 / 1725	13	15	0.50	0.95	17	24	1.50	2.00	76	96	70	

SPECIFICATION

Model	Type	Frequency		Phase	Start Method	Power		Discharge		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
 Channel Impeller	AS-3756C	—	60	3Ø	Direct	7½	5.5	6(4")	150(100)	4P / ---- / 1725		—	15	—	1.26	—	23	—	3.00	145	165	48
	AS-3106C	—	60	3Ø	Direct	10	7.5	6(4")	150(100)	4P / ---- / 1725		—	18	—	1.40	—	26	—	3.40	150	170	48
	AS-3154C	—	60	3Ø	Y-Δ	15	11	4"	100	4P / ---- / 1725		—	20	—	1.50	—	37	—	3.00	265	340	48
	AS-3156C	50	60	3Ø	Y-Δ	15	11	6"	150	4P / 1425 / 1725		12	12	2.50	2.50	20	21	4.70	5.50	265	340	70
	AS-3158C	50	60	3Ø	Y-Δ	15	11	8"	200	4P / 1425 / 1725		7	7	4.50	4.50	15	18	6.17	6.17	270	360	80

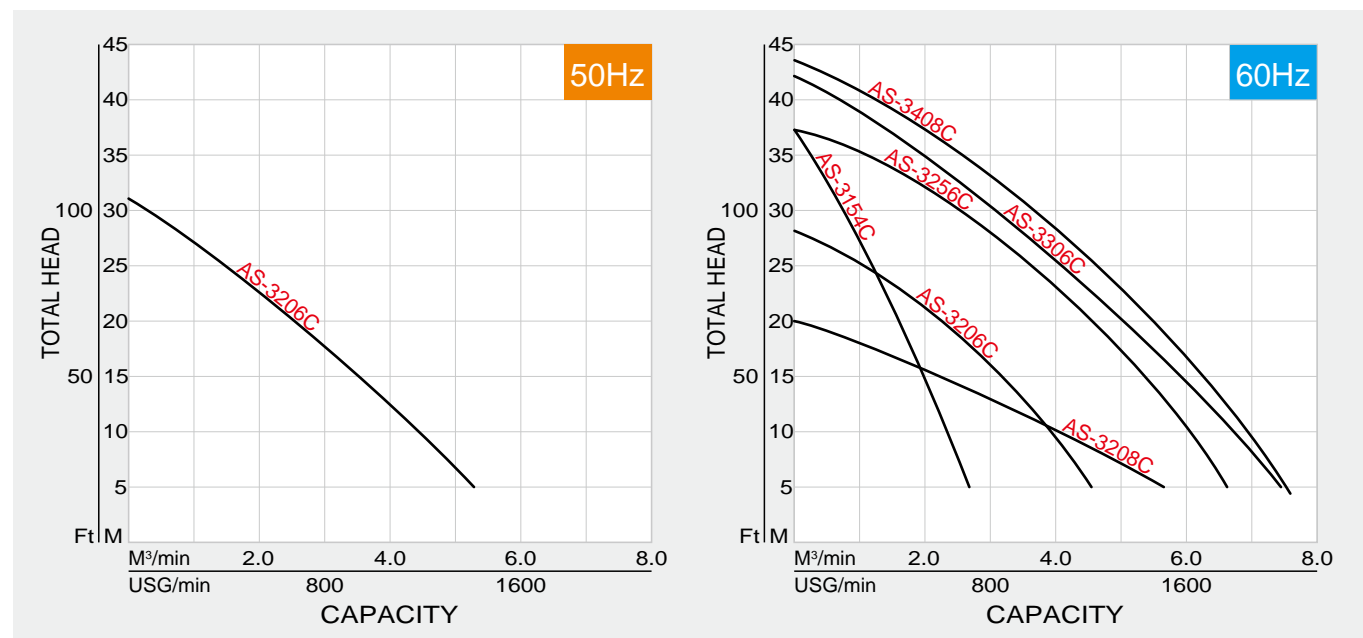


Apparatus Use Sewage Pump (4P)


FEATURES

- 1.The AS series meets the National Standards CNS, NO. 8080 and 9813 issued by the Ministry of Economic Affairs in Taiwan.
- 2.Equipped with Epoxy resin covered cables that block moisture from entering the motor.
- 3.The dry motor is designed as a 3 phase, 4 pole induction motor in accordance with the standards of IEC IP68.
- 4.The dual mechanical seal is made from silicon carbide for better lubrication and longer service life.
- 5.Ball-bearing with high torque durability, low noise and low vibration.
- 6.Our thick Epoxy coating is better than other common coatings for its corrosion and rust resistance.
- 7.From 2~10HP of AS series submersible pumps are equipped with AUTO-CUT Protectors; from 15~40HP of AS series submersible pumps are equipped with a Miniature Thermal Protector that automatically shuts down the pump when overheating, instability of voltage or other unusual conditions like plugged impellers and low water level.
- 8.We offer 3 kinds of impellers semi-open, closed, and vortex. These options are shown in the picture for various wastewater treatments.

PERFORMANCE CURVE



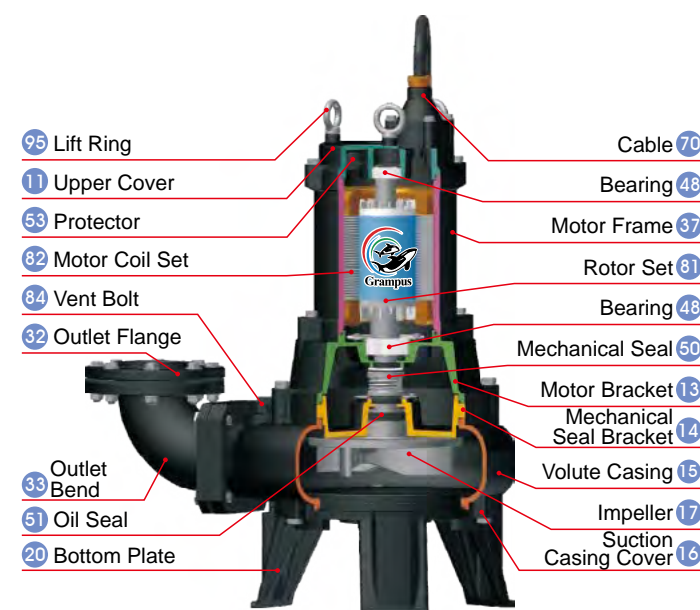
SPECIFICATION

Model	Type	Frequency	Phase	Start Method	Power	Discharge	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					
	AS-3206C	50	60	3Ø	Y-Δ	20	15	6"	150	4P / 1425 / 1725	20	16	2.50	2.50	31	28	6.00	5.00	280	355	70
	AS-3208C	—	60	3Ø	Y-Δ	20	15	8"	200	4P / — — — / 1725	—	9	—	4.50	—	20	—	6.95	285	375	80
	AS-3256C	—	60	3Ø	Y-Δ	20	15	8"	200	4P / — — — / 1725	—	28	—	2.50	—	37	—	7.00	285	375	80
	AS-3306C	—	60	3Ø	Y-Δ	30	22	6"	150	4P / — — — / 1725	—	32	—	2.50	—	42	—	8.00	390	465	70
	AS-3408C	—	60	3Ø	Y-Δ	40	22	8"	200	4P / — — — / 1725	—	35	—	2.50	—	44	—	8.00	390	465	70

APPLICATION

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

STRUCTURAL DRAWING

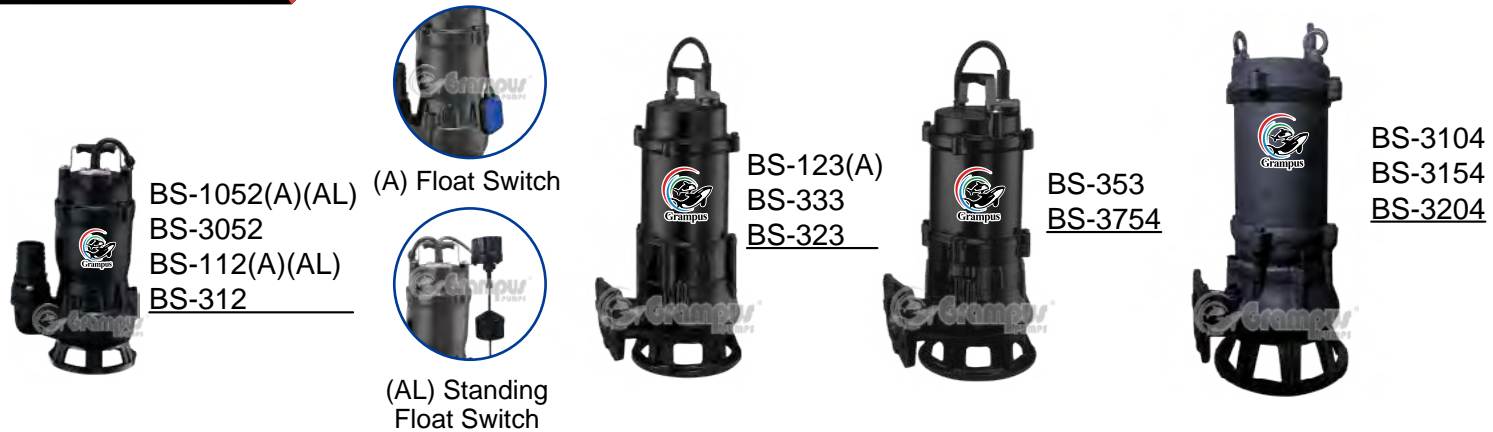


MATERIAL AND STANDARD TABLE

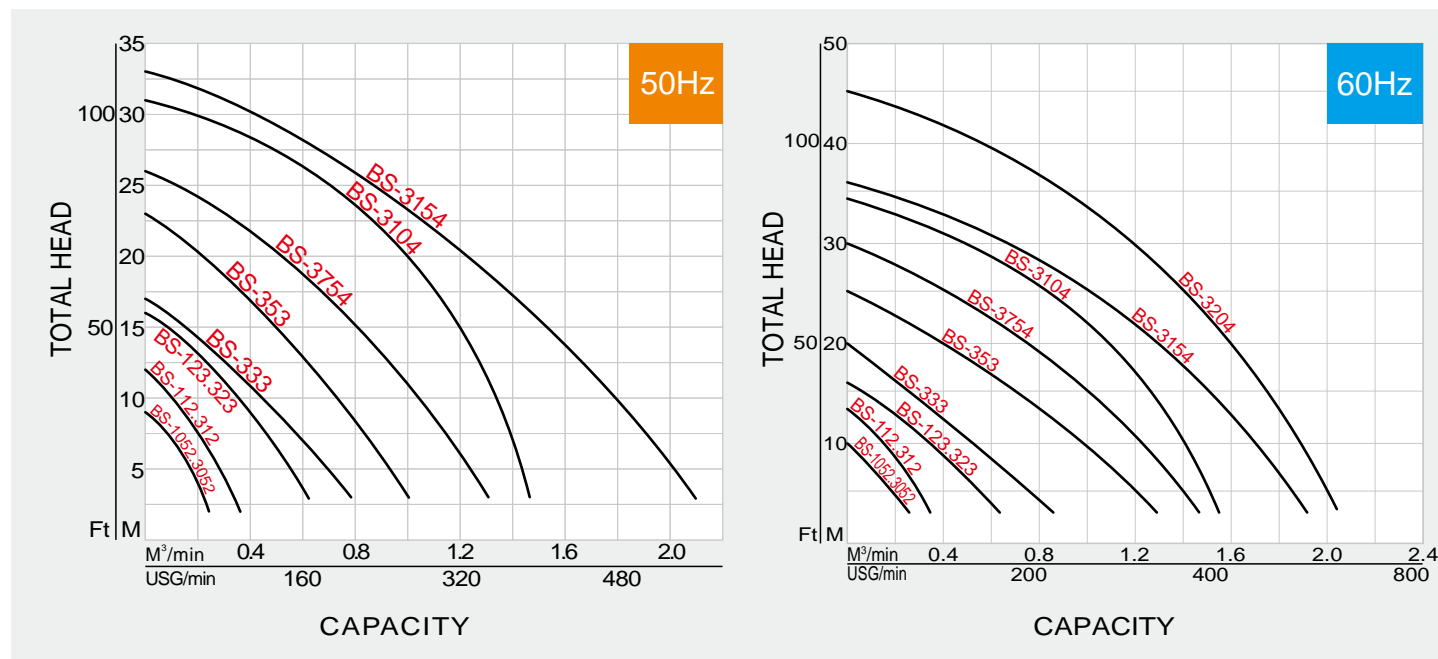
			Caliber	50 • 80 • 100 • 150 • 200 (mm)	
			Coating	Epoxy	
Liquid	Temperature			0°C~40°C(32°F~104°F)	
	Application			Drainage of wastewater of building, farming, animal husbandry, Industry and sewer.	
	The lowest depth			▽30 M	
	Pump	Structure	Impeller		Semi-open / Channel / Vortex Impeller
Seal			Dual 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		1HP: B / 2~5HP: F / 7.5~40HP: H		
	Inner protector		1~10HP:Auto Reset Motor Protector 15~40HP:Miniature Thermal Protector		
	Material	Casing		FC-200	
		Main Shaft		SUS-410 / SUS-420	
		Cable		Standard VCT	

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

※ Elbow is sold separately for flange-type pumps.



PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency		Phase	Power		Discharge		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
BS-1052(A)(AL)	50	60	1Ø	½	0.4	2"	50	2P / 2850 / 3450		4	4	0.20	0.20	9	10	0.27	0.27	18	27	35
BS-3052	50	60	3Ø	½	0.4	2"	50	2P / 2850 / 3450		4	4	0.20	0.20	9	10	0.27	0.27	18	27	35
BS-112(A)(AL)	50	60	1Ø	1	0.75	2"	50	2P / 2850 / 3450		7.5	8	0.20	0.20	12	13	0.40	0.40	21	30	35
BS-312	50	60	3Ø	1	0.75	2"	50	2P / 2850 / 3450		7.5	8	0.20	0.20	12	13	0.40	0.40	21	30	35
BS-123(A)	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		6.5	10	0.50	0.35	16	16	0.70	0.75	40	60	40
BS-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		6.5	10	0.50	0.35	16	16	0.70	0.75	38	58	40
BS-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		9	11	0.50	0.50	17	20	0.90	1.00	40	63	45
BS-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		15	18	0.50	0.50	23	25	1.10	1.40	47	67	40
BS-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		11	21	1.00	0.70	26	30	1.40	1.55	58	94	50
BS-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450		20	22	1.00	1.00	31	34	1.50	1.60	70	106	50
BS-3154	50	60	3Ø	15	11	4"	100	2P / 2850 / 3450		23	24	1.00	1.10	33	36	2.20	2.00	78	114	50
BS-3204	-	60	3Ø	20	15	4"	100	2P / - / 3450		-	30	-	1.20	-	45	-	2.10	80	116	50



Vortex Non-Clog Impeller

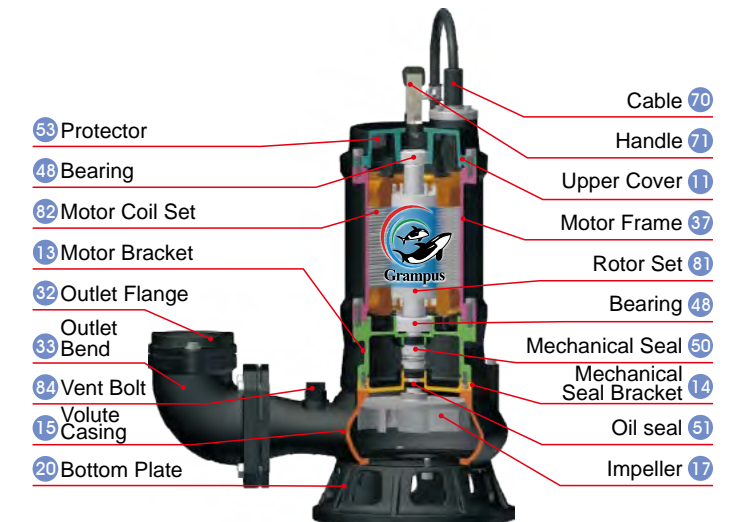
FEATURES

- 1.Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
- 2.The volute casing is equipped with a vortex impeller.
- 3.The volute casing is equipped with a vent bolt to avoid air locks.
- 4.Equipped with a high-quality dual SIC mechanical seal.
- 5.The motor has insulation in accordance with the standards of IEC IP68.
6. Auto-cut prevents the motor from overheating.
- 7.We insist on using thick Epoxy resin coating instead of common coating for better corrosion and rust resistance.
- 8.This type can be equipped with a lift bracket.

APPLICATION

- 1.Wastewater lift station, municipal wastewater treatment plant.
- 2.Building a 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 wasterwater 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 / SCS13: 7.5-20HP
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	½~1HP:Engineering Strengthen Fiber Resin(STD) 2~15HP:FC-200
	Seal	Lubricant	ISO VG.#32
		Motor Side	Carbon / Ceramic
Pump Side		Silicon Carbide / Silicon Carbide	
Motor	Type		Submersible dry type
	Insulation class		0.5~1HP: B / 2~5: F / 7½~20HP: H
	Inner protector		Auto Reset Motor Protector
	Material	Casing	FC-200
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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

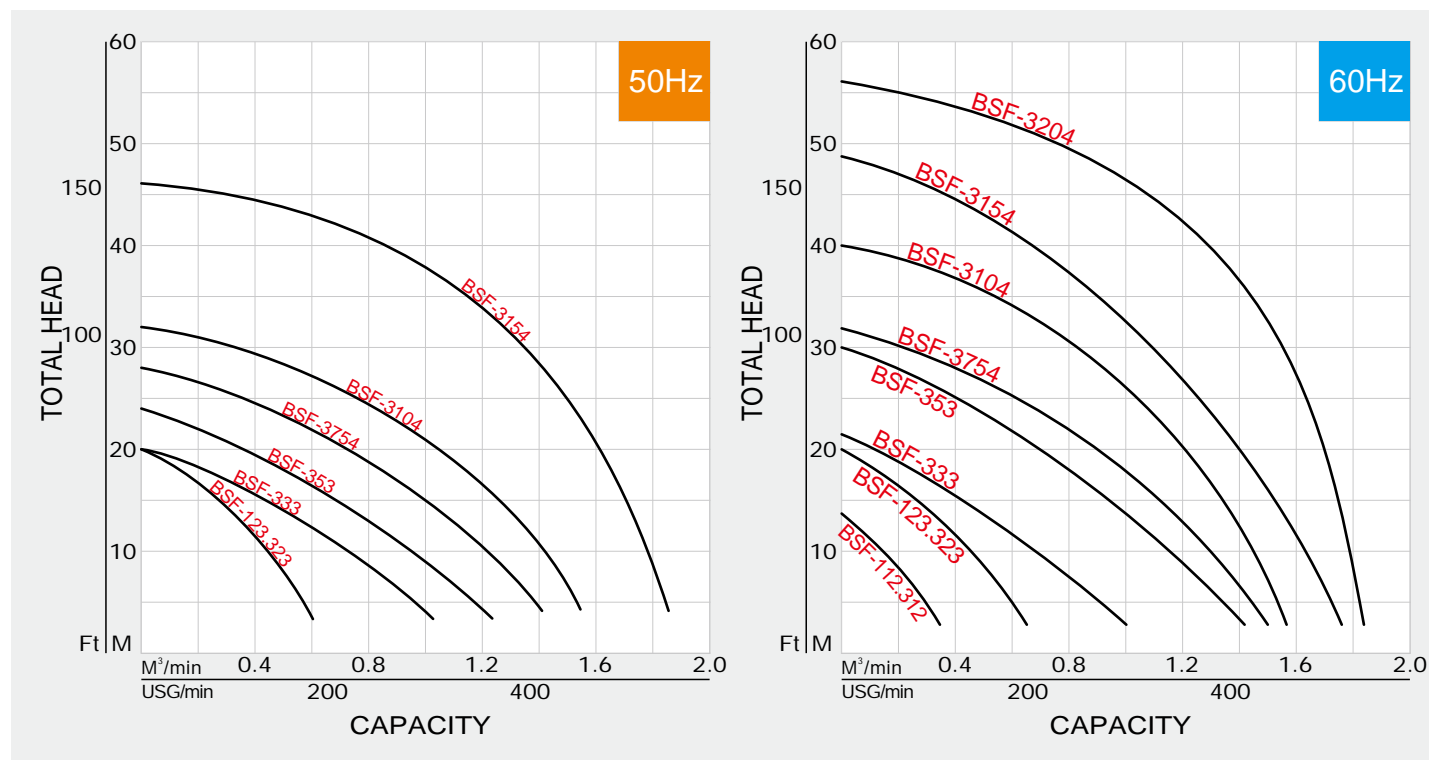
※ Elbow is sold separately for flange-type pumps.

BSF-112(A)(AL)
BSF-312

(A) Float Switch

(AL) Standing
Float SwitchBSF-123
BSF-333
BSF-323BSF-353
BSF-3754BSF-3104
BSF-3154
BSF-3204

PERFORMANCE CURVE



SPECIFICATION

※ (A)(AL) means single-phase motor can be installed with the float switch or Standing Float Switch.

Type	Frequency		Phase	Power		Discharge		Pole/Rotation		Std.Head		Std.Flow		Max.Head		Max.Flow		BSF Weight	TOS-BSF Weight	Solid Passage
TYPE	Hz		PH	HP	KW	Inch	mm	P/rpm		M		M³/min		M		M³/min		KG	KG	mm
BSF-112(A)(AL)	-	60	1Ø	2	1.5	3"	80	2P / - / 3450		-	8	-	0.20	-	13	-	0.40	21	30	35
BSF-312	-	60	3Ø	2	1.5	3"	80	2P / - / 3450		-	8	-	0.20	-	13	-	0.40	21	30	35
BSF-123(A)	50	60	1Ø	2	1.5	3"	80	2P / 2850 / 3450		8	11	0.50	0.40	20	20	0.65	0.70	40	60	20
BSF-323	50	60	3Ø	2	1.5	3"	80	2P / 2850 / 3450		8	11	0.50	0.40	20	20	0.65	0.70	38	58	20
BSF-333	50	60	3Ø	3	2.2	3"	80	2P / 2850 / 3450		14	12	0.50	0.50	20	21	1.10	1.10	40	60	35
BSF-353	50	60	3Ø	5	3.7	3"	80	2P / 2850 / 3450		18	20	0.50	0.70	24	30	1.35	1.50	47	67	35
BSF-3754	50	60	3Ø	7½	5.5	4"	100	2P / 2850 / 3450		15	22	1.00	0.80	28	33	1.50	1.55	58	94	35
BSF-3104	50	60	3Ø	10	7.5	4"	100	2P / 2850 / 3450		21	24	1.00	1.00	32	40	1.60	1.60	70	106	35
BSF-3154	50	60	3Ø	15	11	4"	100	2P / 2850 / 3450		36	30	1.10	1.10	46	49	1.90	1.80	78	114	35
BSF-3204	-	60	3Ø	20	15	4"	100	2P / - / 3450		-	40	-	1.30	-	56	-	1.85	84	120	35



High Efficiency Apparatus Use Sewage Pump (2P)

High Efficiency
Impeller

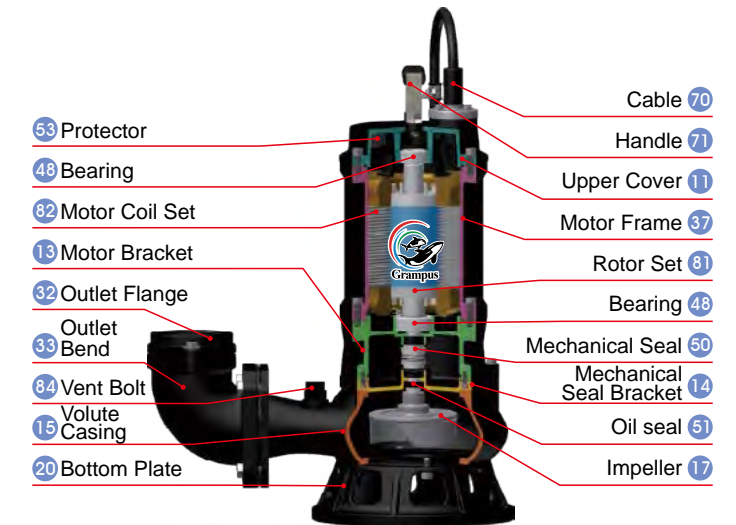
FEATURES

- 1.High-efficiency stainless steel impeller with semi-open and double-wing design to prevent blockage. This product will have a better flow and head because of the special runner design.
- 2.Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
- 3.The volute casing is equipped with a vent bolt to avoid air locks.
- 4.Equipped with a high-quality dual SIC mechanical seal.
- 5.The motor has insulation in accordance with the standards of IEC IP68.
- 6.Auto-cut prevents the motor from overheating.
- 7.We insist on using thick Epoxy resin coating instead of common coating for better corrosion and rust resistance.
- 8.This type can be equipped with a lift bracket.

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

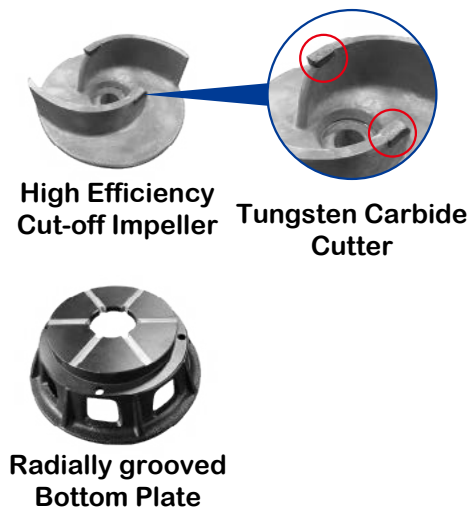


MATERIAL AND STANDARD TABLE

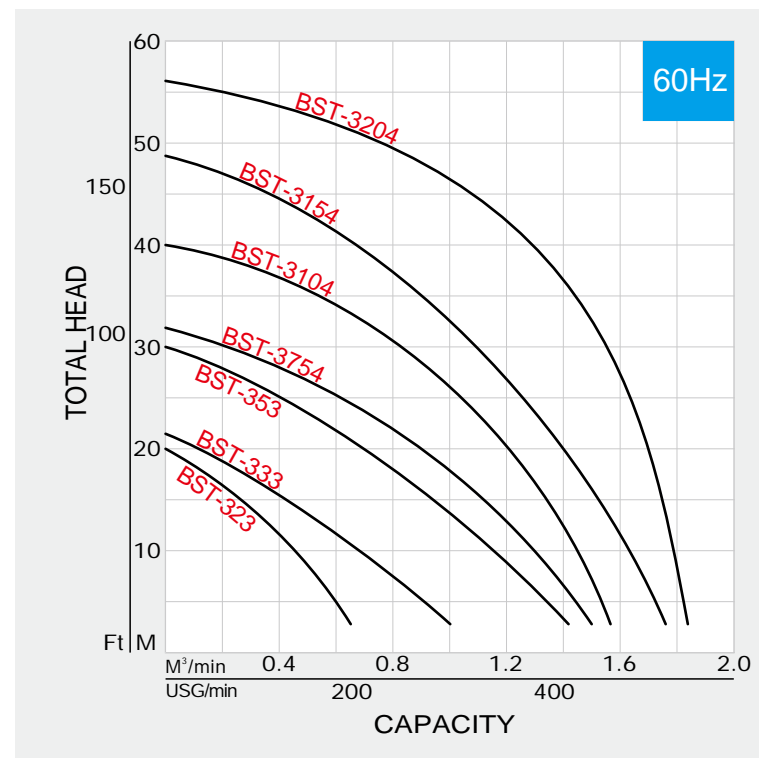
Liquid	Caliber		50mm • 80mm • 100mm
	Temperature		0°C~40°C(32°F~104°F)
	Application		Available to deal with wastewater of building, sewer and industrial wastewater of food, paper, mining, textile, leather, dyeing and metal.
	The lowest depth		▽30 M
Pump	Structure	Impeller	Semi-open Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	FC-200 / SCS13: 7.5-20HP
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	FC-200
	Seal	Lubricant	ISO VG.#32
		Motor Side	Carbon / Ceramic
Pump Side		Silicon Carbide / Silicon Carbide	
Motor	Type		Submersible dry type
	Insulation class		1~5HP: F Class / 7½~20HP: H Class
	Inner protector		Auto Reset Motor Protector
	Material	Casing	FC-200
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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

※ Elbow is sold separately for flange-type pumps.



PERFORMANCE CURVE



SPECIFICATION

Type	Frequency	Phase	Power		Discharge		Pole/Rotation	Std.Head	Std.Flow	Max.Head	Max.Flow	BSF Weight	TOS-BSF Weight	Solid Passage
TYPE	Hz	PH	HP	KW	Inch	mm	P/rpm	M	M³/min	M	M³/min	KG	KG	mm
BST-323	60	3Ø	2	1.5	3"	80	2P / 3450	11	0.40	20	0.70	38	58	20
BST-333	60	3Ø	3	2.2	3"	80	2P / 3450	12	0.50	21	1.10	40	60	35
BST-353	60	3Ø	5	3.7	3"	80	2P / 3450	20	0.70	30	1.50	47	67	35
BST-3754	60	3Ø	7½	5.5	4"	100	2P / 3450	22	0.80	33	1.55	58	94	35
BST-3104	60	3Ø	10	7.5	4"	100	2P / 3450	24	1.00	40	1.60	76	88	35
BST-3154	60	3Ø	15	11	4"	100	2P / 3450	30	1.10	49	1.80	78	114	35
BST-3204	60	3Ø	20	15	4"	100	2P / 3450	40	1.30	56	1.85	84	120	35



Cut-off Apparatus Use Sewage Pump (2P)

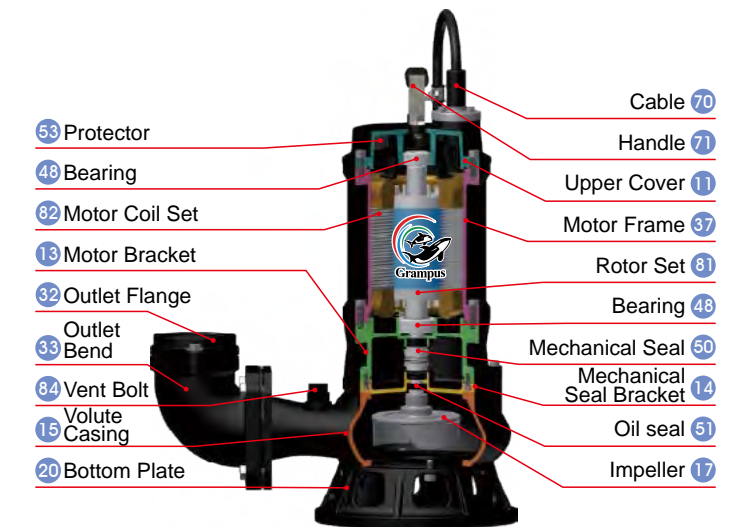
FEATURES

1. Featuring a high-efficiency, semi-open double-wing design, the stainless steel impeller includes a special tungsten carbide cutter at its base. Paired with a radially-grooved suction plate, it generates a strong cutting action for tough debris.
2. Cable base and core wire are manufactured with an epoxy resin treatment to prevent moisture from entering the motor.
3. The volute casing is equipped with a vent bolt to avoid air locks.
4. Equipped with a high-quality dual SIC mechanical seal.
5. The motor has insulation in accordance with the standards of IEC IP68.
6. Auto-cut prevents the motor from overheating.
7. We insist on using thick Epoxy resin coating instead of common coating for better corrosion and rust resistance.
8. This type can be equipped with a lift bracket.

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		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	Semi-open Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	FC-200
		Bearing	Heavy-duty bearing
		Impeller	SCS13 / Tungsten Carbide
		Volute Casing	FC-200
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	FC-200
	Seal	Lubricant	ISO VG.#32
Motor Side		Carbon / Ceramic	
Pump Side		Silicon Carbide / Silicon Carbide	
Motor	Type		Submersible dry type
	Insulation class		2~5HP: F Class / 7½~20HP: H Class
	Inner protector		Auto Reset Motor Protector
	Material	Casing	FC-200
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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

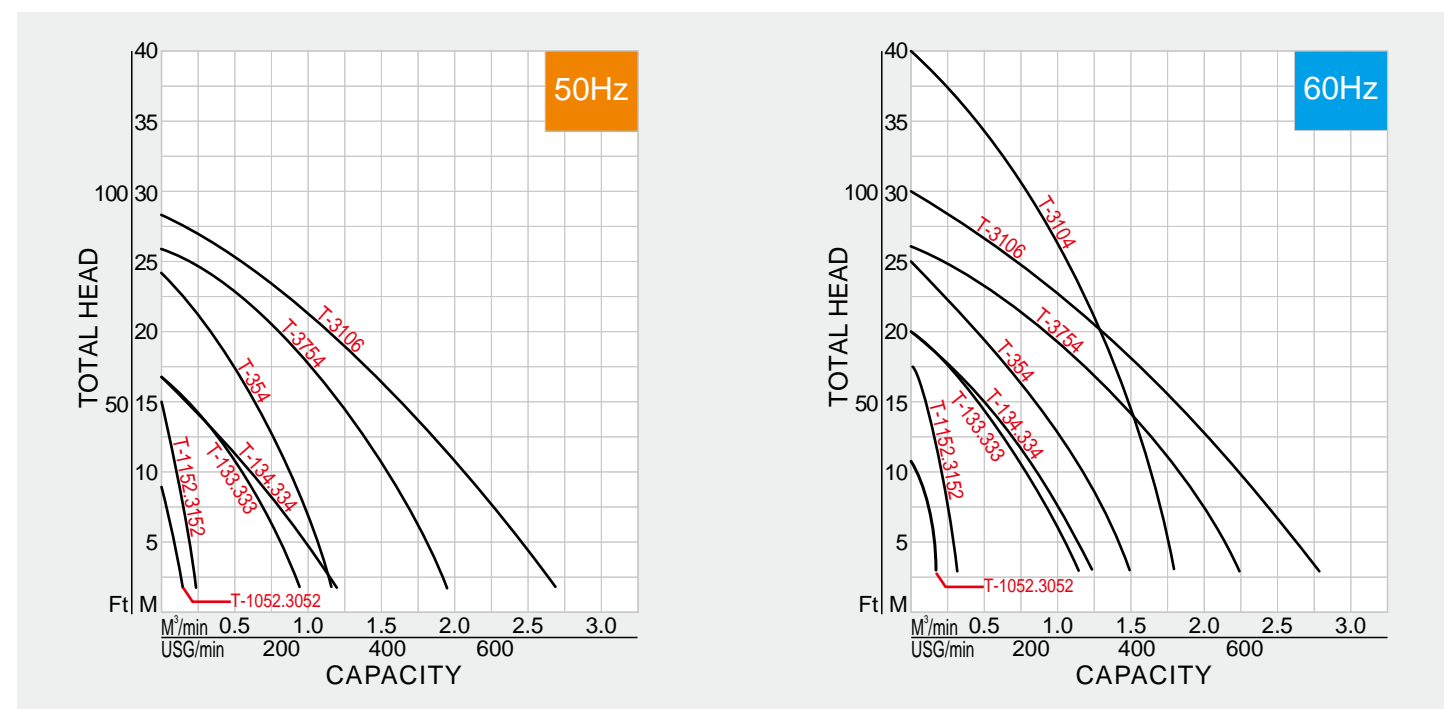


Water-Cooling Sump Pump




T-1052
T-3052T-1152
T-3152T-133
T-333T-134
T-334
T-354T-3754
T-3104

T-3106

PERFORMANCE CURVE



SPECIFICATION

Model	Type	Frequency		Phase	Power		Discharge		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	5060	1Ø	½	0.4	2"	50	2P / 2850 / 3450	5	7	0.10	0.12	9.5	11	0.22	0.20	15	
		T-3052	5060	3Ø	½	0.4	2"	50	2P / 2850 / 3450	5	7	0.10	0.12	9.5	11	0.22	0.20	15	
	Channel Impeller	T-1152	5060	1Ø	1½	1.1	2"	50	2P / 2850 / 3450	8.5	10	0.15	0.18	15	17.5	0.25	0.35	26	
		T-3152	5060	3Ø	1½	1.1	2"	50	2P / 2850 / 3450	8.5	10	0.15	0.18	15	17.5	0.25	0.35	26	
	Channel Impeller	T-133	5060	1Ø	3	2.2	3"	80	2P / 2850 / 3450	12	12	0.50	0.70	17	20	1.00	1.25	39	
		T-333	5060	3Ø	3	2.2	3"	80	2P / 2850 / 3450	12	12	0.50	0.70	17	20	1.00	1.25	39	
		T-134	5060	1Ø	3	2.2	4"	100	2P / 2850 / 3450	10	12	0.60	0.75	17	20	1.30	1.35	39	
		T-334	5060	3Ø	3	2.2	4"	100	2P / 2850 / 3450	10	12	0.60	0.75	17	20	1.30	1.35	39	
		T-354	5060	3Ø	5	3.7	4"	100	2P / 2850 / 3450	14	15	0.70	0.85	24	25	1.20	1.58	42.5	
		T-3754	5060	3Ø	7½	5.5	4"	100	2P / 2850 / 3450	16	15	1.20	1.40	26	26	2.00	2.30	64	
		T-3104		60	3Ø	10	7.5	4"	100	2P / --- / 3450		26		1.00		40		1.80	72
		T-3106	5060	3Ø	10	7.5	6"	150	2P / 2850 / 3450	16	17	1.60	1.60	28	30	2.80	3.00	72	

FEATURES

1. Special water-cooling design prevents the motor from overheating.
2. Channel impellers are designed for high efficiency, power-saving, and prevent motors from overloading.
3. Models over 1.1 KW input could add the flange accessory for both sucking and pumping functions.
4. After connecting with the valve, this pump series can be used for pumping well water.

ATTENTION

After dismantling the pump's strainer for pumping well water, the pump must be refilled with water before running it for the first time and then it can start pumping. Additionally, there is an option to purchase an appropriately sized "Check-Valve" accessory at local hardware stores that can be added to the pump for future usage so there is no need to refill the water again.

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 / 3~10HP : 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		0.5HP: B / 1.5~5HP: F / 7½~10HP: H	
	Inner protector		Auto Reset Motor Protector	
	Material	Casing	SUS-304 / FC-200: 3HP&5HP	
		Main Shaft	SUS-410 / SUS-420 / SUS-304	
		Cable	Standard VCT	

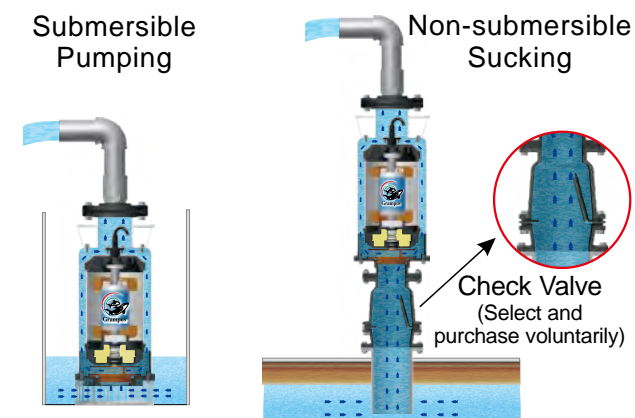
*Spare parts and material of pump could be made by request.

APPLICATION

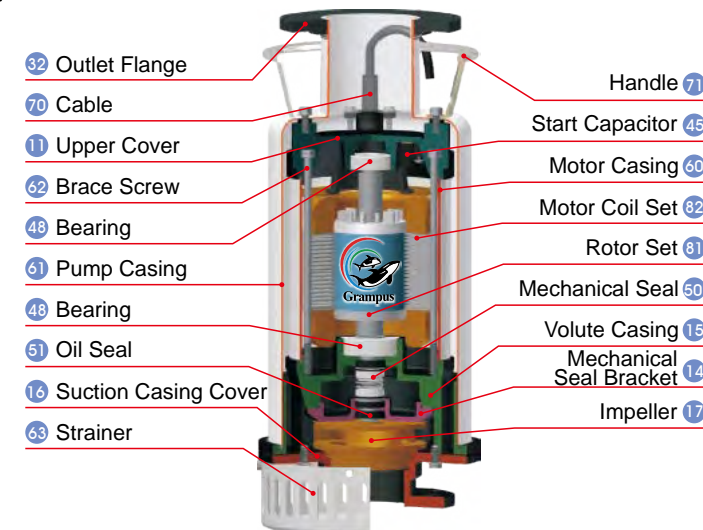
1. Equipped with a strainer, it can be used for water supplying and drainage in fishponds.
2. In models over 1.1 KW input: after pulling down the pump's strainer you can install the check valve through the outlet flange interface and connect the well piping. This way, it can be used for farm irrigation to pump groundwater and other groundwater projects.
3. Use for long-term circulation water supply for factory drainage, wastewater, water supply for mountainside, landscaping, and gardening, etc.

WATER COOLING

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



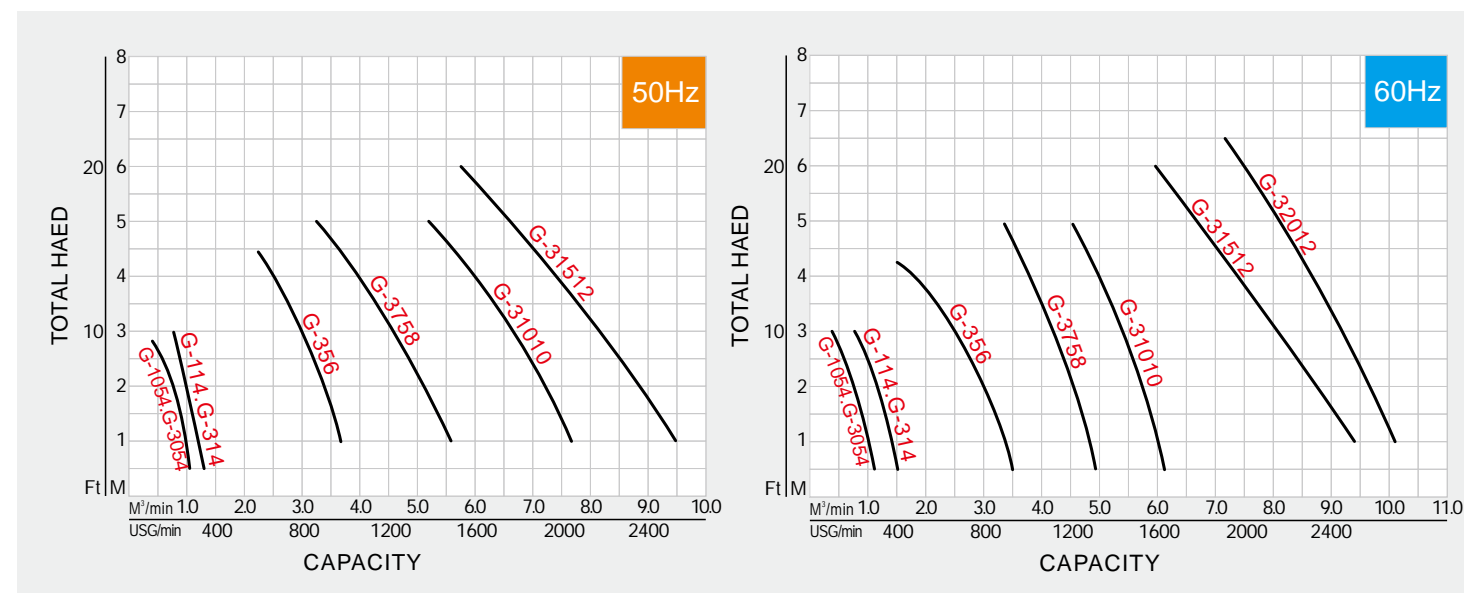
STRUCTURAL DRAWING



(U)Partical Components are made from Bronze.



PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Discharge		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	1.5	1.5	0.8	0.9	1.1	1.2	25	
G-3054(U)	50	60	3Ø	½	0.4	4"	100	2P / 2850 / 3450	1.5	1.5	0.8	0.9	1.1	1.2	25	
G-114(U)	50	60	1Ø	1	0.75	4"	100	2P / 2850 / 3450	1.5	1.5	1.1	1.3	1.4	1.6	26	
G-314(U)	50	60	3Ø	1	0.75	4"	100	2P / 2850 / 3450	1.5	1.5	1.1	1.3	1.4	1.6	26	
G-356(U)	50	60	3Ø	5	3.7	6"	150	4P / 1425 / 1725	3	5	3.0	1.8	4.0	4.0	75	
G-3758	50	60	3Ø	7½	5.5	8"	200	4P / 1425 / 1725	4	5	4.0	3.7	6.0	5.5	100	
G-31010(U)	50	60	3Ø	10	7.5	10"	250	4P / 1425 / 1725	4	4	6.0	5.0	8.0	6.2	130	
G-31512U	50	60	3Ø	15	11	12"	300	4P / 1425 / 1725	4.5	4.5	7.0	7.0	10.0	10.0	225	
G-32012U	—	60	3Ø	20	15	12"	300	4P / — — — / 1725	—	6	—	7.5	—	10.5	240	

※(U)Partical Components are made from Bronze.



Axial-Flow Large Volume Water Sump Pump

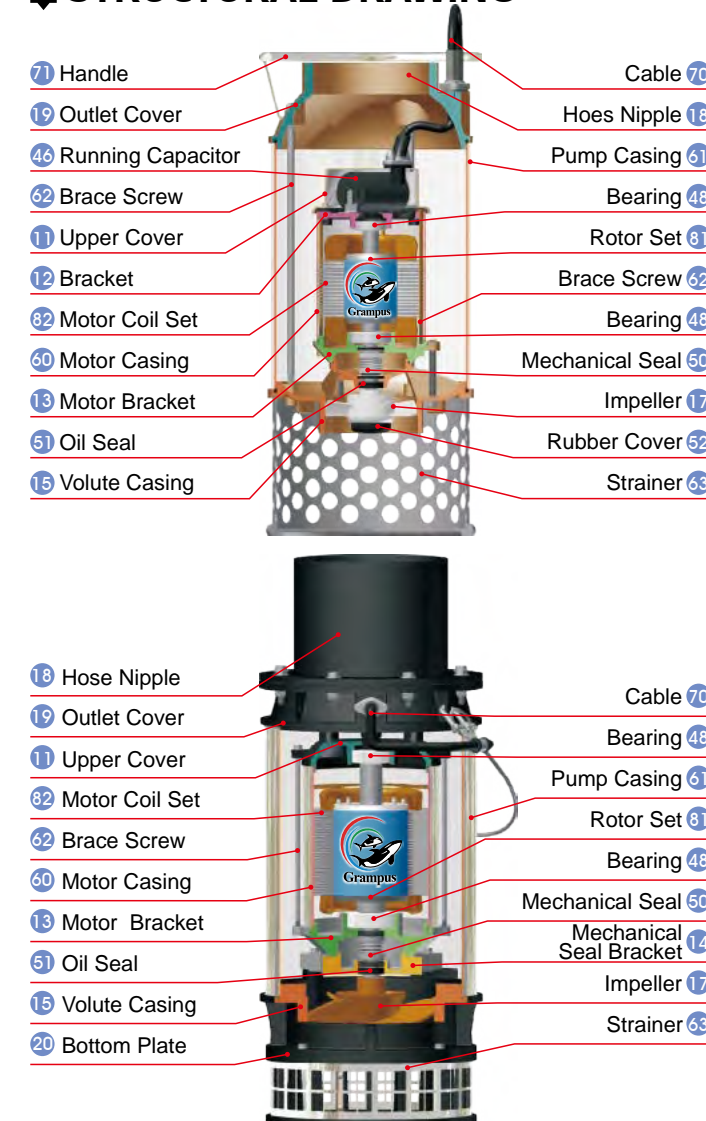
FEATURES

1. Axial impeller and wide caliber are designed for higher water flow.
2. The motor does not require high voltage equipment to start.
3. The balance both between the motor shaft and impeller is calibrated to reduce noise and vibration during operation.
4. The G series pumps cast parts are made of high-quality cast iron or bronze with stainless steel housing.
5. The cast iron parts are coated with Epoxy to resist corrosion.
6. It is easy to move since it's small and lightweight.

APPLICATION

1. Discharge 4" is suitable for the water cycle in carp farms.
2. Collocation with horticulture, or landscape gardening.
3. Drainage of streams, rivers, farm-irrigations, fisher ponds.
4. Drainage of sewer treatment, water conservancy engineering, waterworks or other industries.

STRUCTURAL DRAWING



MATERIAL AND STANDARD TABLE

Liquid	Caliber		100 • 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 particular designed for drainage volume of water.
	The lowest depth		▽30 M
Pump	Structure	Impeller	Axial-Flow Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	½~1HP : SUS-304 5~10HP : FC-200 / Bronze 15~20HP : Bronze
		Bearing	Heavy-duty bearing
		Impeller	0.5~1 & 5 & 7.5~10HP : SCS13 15 & 20HP : Bronze
		Motor Bracket	0.5~10HP : FC-200 / Bronze 15~20HP : Bronze
		Mechanical Seal Bracket	0.5~10HP : FC-200 / Bronze 15~20HP : Bronze
		Volute Casing	0.5~1HP : FC-200 / Bronze 5~20HP : FC-200
		Strainer	SUS-304
		Bottom Plate	7½~20HP : FC-200
	Seal	Lubricant	ISO VG.#32
		Motor Side	Carbon / Ceramic
		Pump Side	Silicon Carbide / Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		0.5~1HP: B / 5HP: F / 7.5~20HP: H
	Inner protector		Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-304
		Cable	Standard VCT

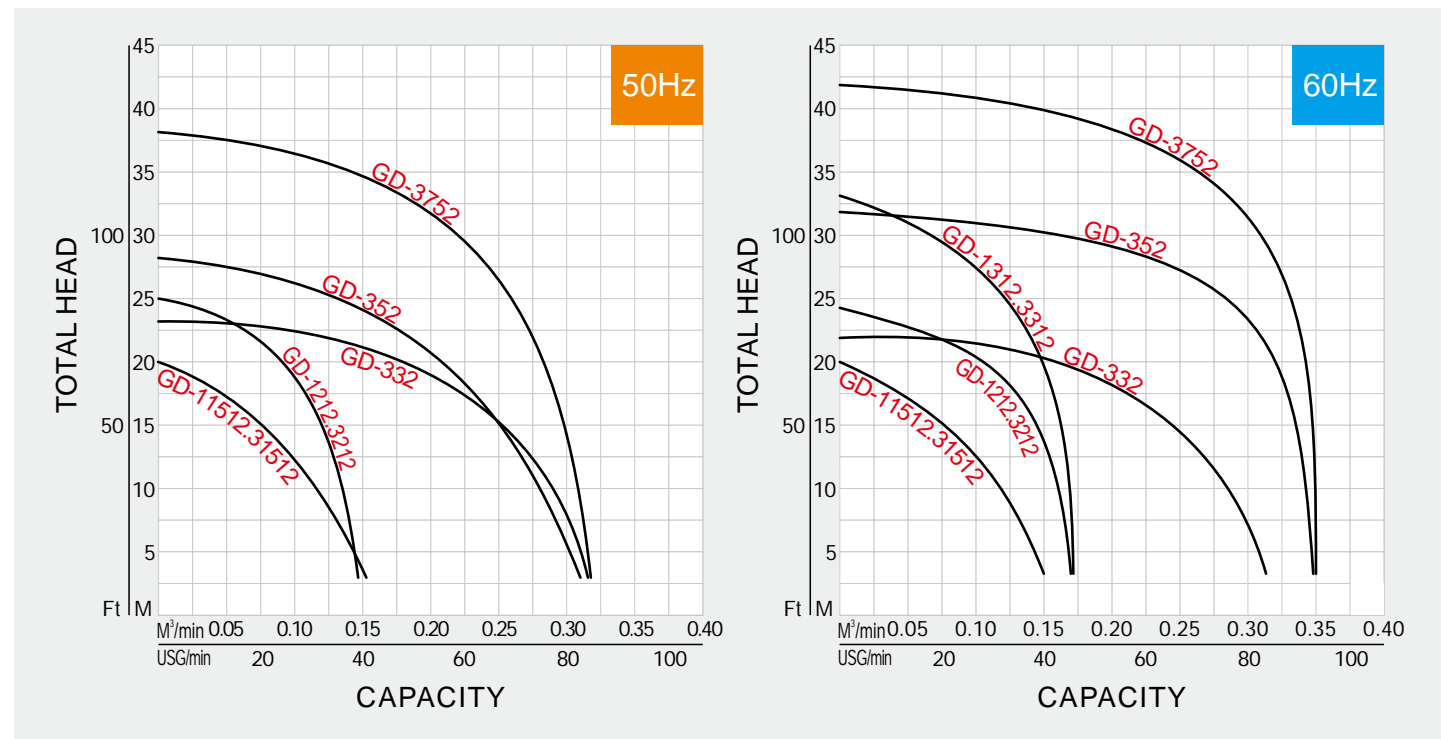
*Spare parts and material of pump could be made by request.

※ Elbow is sold separately for flange-type pumps.

GD-11512A
GD-1212AGD-11512
GD-31512
GD-1212
GD-3212
GD-1312
GD-3312GD-332
GD-352
GD-3752 (60Hz)GD-3752
(50Hz)Radial Cutter
Radial Ring

Youtube

PERFORMANCE CURVE



SPECIFICATION

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

Type	Frequency		Phase	Power		Discharge		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-11512(A)	50	60	1Ø	1½	1.1	1¼"	32	2P / 2850 / 3450		17	12	0.06	0.13	20	20	0.15	0.16	27	
GD-31512	50	60	3Ø	1½	1.1	1¼"	32	2P / 2850 / 3450		17	12	0.06	0.13	20	20	0.15	0.16	25	
GD-1212(A)	50	60	1Ø	2	1.5	1¼"	32	2P / 2850 / 3450		23	14	0.06	0.15	25	24	0.15	0.17	36	
GD-3212	50	60	3Ø	2	1.5	1¼"	32	2P / 2850 / 3450		23	14	0.06	0.15	25	24	0.15	0.17	33	
GD-1312	—	60	1Ø	3	2.2	1¼"	32	2P / — / 3450		—	20	—	0.15	—	33	—	0.17	39	
GD-3312	—	60	3Ø	3	2.2	1¼"	32	2P / — / 3450		—	20	—	0.15	—	33	—	0.17	36	
GD-332	50	60	3Ø	3	2.2	2"	50	2P / 2850 / 3450		19	18	0.20	0.20	23	22	0.32	0.32	51	
GD-352	50	60	3Ø	5	3.7	2"	50	2P / 2850 / 3450		21	23	0.20	0.30	28	32	0.32	0.35	53	
GD-3752	50	60	3Ø	7½	5.5	2"	50	2P / 2850 / 3450		32	32	0.20	0.30	37	42	0.32	0.35	54	

FEATURES

- 1.GD series Grinder Pumps are produced with high-quality FC-200 cast iron housings, VCT cable with Epoxy resin base, dry motor, and dual-mechanical seals for better performance.
- 2.The pump has heavy-duty ball bearings, a protector and insulation that conforms to IEC IP68 standards.
- 3.The design of the centrifugal semi-open impeller can avoid any long fiber items or other objects from blocking the inlet.
- 4.Both radial cutter and ring are made from SUS-440C material with a hardness of HRC 55-60°. Any high tenacity objects such as leather, textile, plastic bags, and rope are easy ground.

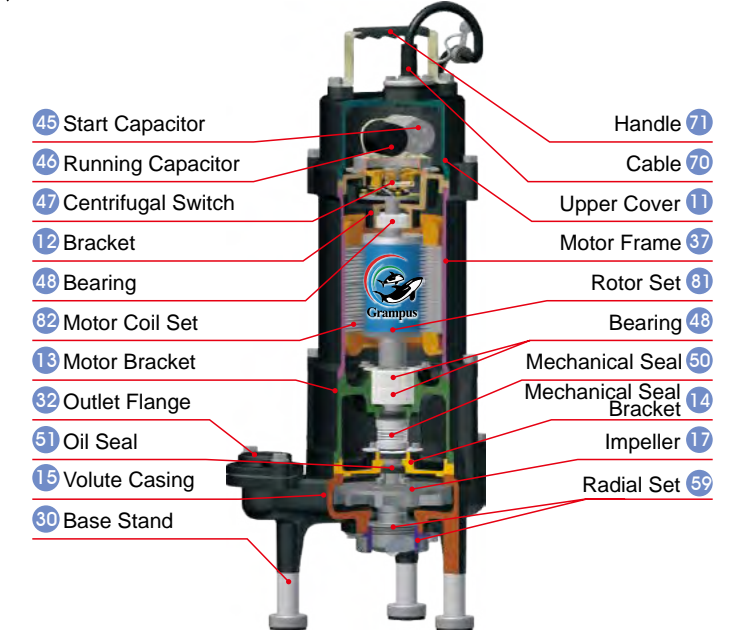
APPLICATION

- 1.Materials such as leathers, textile fiber, food, and other tenacity objects are easily ground.
- 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 to use in various wastewater drainage systems and sewage water treatments.

Industry application



STRUCTURAL DRAWING



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
	Motor Side		Carbon / Ceramic
	Pump Side		Silicon Carbide / Silicon Carbide
Motor	Type		Submersible dry type
	Insulation class		1.5HP~5HP: F / 7.5HP: H
	Inner protector		Auto Reset Motor Protector
	Material	Casing	FC-200
		Main Shaft	SUS-410 / SUS-420
		Cable	Standard VCT

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

AJ-332
AJ-352



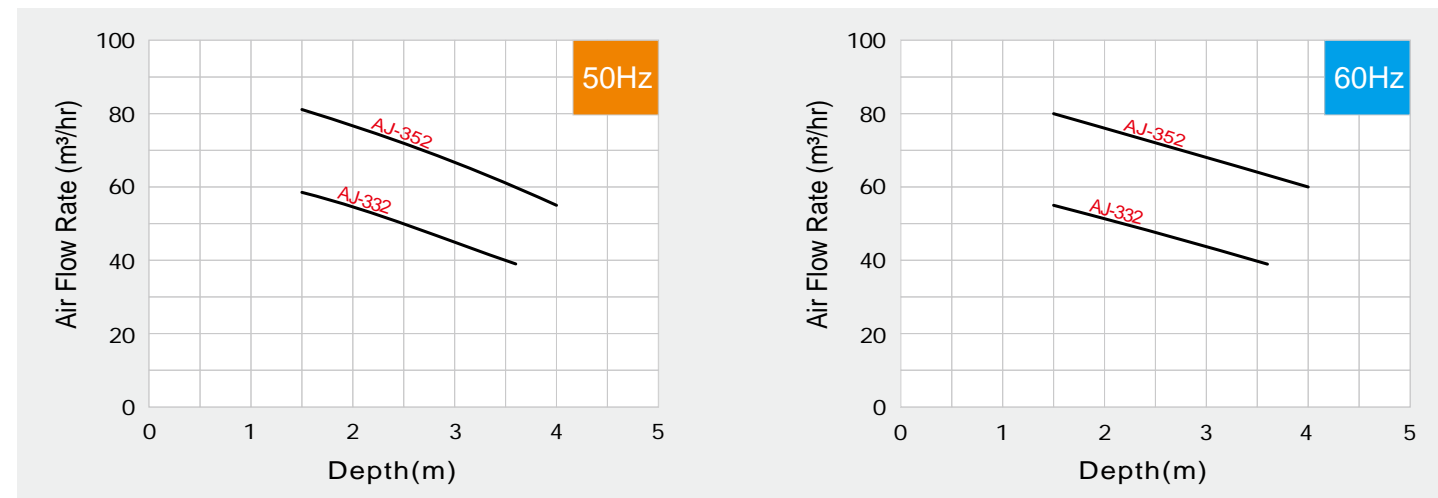
APPLICATION

Excellent equipment for aeration in various industries, such as industrial wastewater, sewage water aeration treatment, general sewer aeration engineering, and active slurry treatment in aeration tanks. Also excellent for wastewater mixing and animal husbandry.

FEATURES

1. The AJ series rotates the turbine inside the pump to mix air and liquid, then releases an air-liquid mixture through the guide vane with a powerful aeration effect.
2. The high-efficiency design of air-liquid mixing allows this device to create homogeneous superfine air bubbles, which are then mixed with the whole liquid body with maximum degree of dissolved oxygen (DO.)
3. The dry motor is designed as a 3 phase, 4 pole induction motor with class F (155°C) insulation in accordance with the standards of IEC IP68.
4. The dual mechanical seal is made from silicon carbide for better lubrication and longer service life.
5. Ball-bearing with high torque durability, low noise and low vibration.
6. This pump can powerfully convert the air bubbles in every radial direction without missing any corners.
7. Our thick Epoxy coating is better than other common coatings for its corrosion and rust resistance.

PERFORMANCE CURVE



SPECIFICATION

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



Submersible Aerator

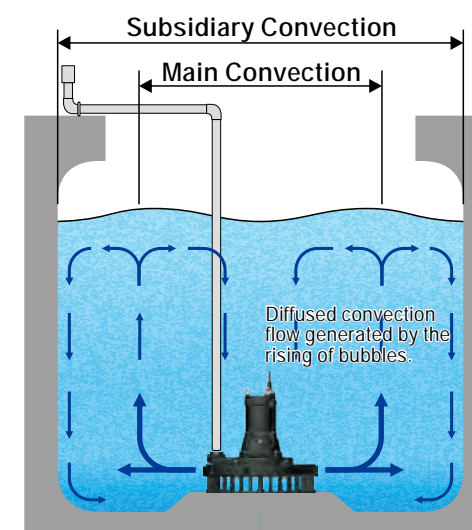
CONVECTION PATTERN

Main Convection

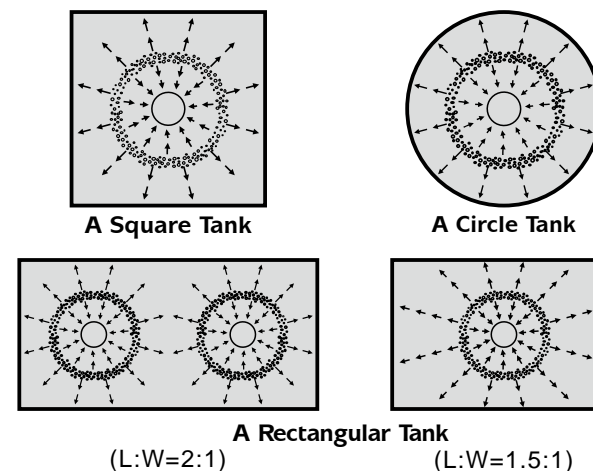
Convection made by rising bubbles.
(The minimum distance that must be provided between each aerator.)

Subsidiary Convection

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



INSTALLATION CONSULTATION

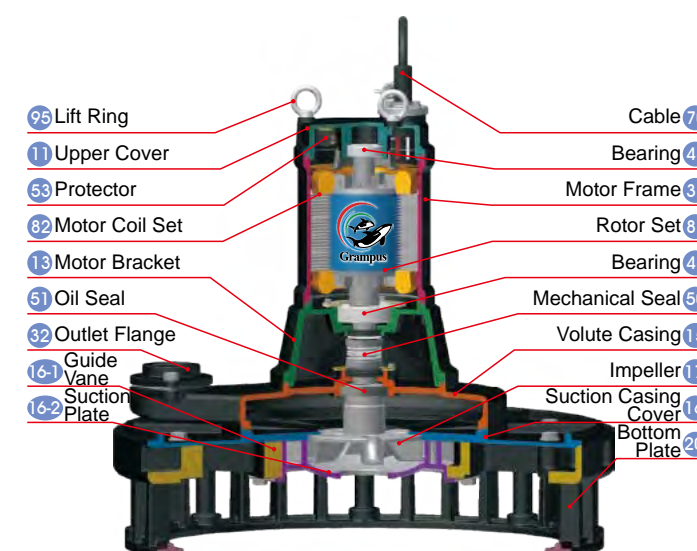


MATERIAL AND STANDARD TABLE

Liquid	Caliber	50mm
	Coating	Epoxy
	Temperature	0°C~40°C(32°F~104°F)
	Application	Water treatment, plants, pond aerations, sewage, treatment, aeration, fish farming.
Pump	The lowest depth	▽30 M
	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
Motor	Seal	Bottom Plate: FCD-450
		Lubricant: ISO VG.#32
		Motor Side: Carbon / Ceramic
	Type	Pump Side: Silicon Carbide / Silicon Carbide
		Inner Protector: Percipience Instrument of seal leakage
	Material	Type: Submersible dry type
		Insulation class: F class (155°C)
		Inner protector: Auto Reset Motor Protector
		Casing: FC-200
		Main Shaft: SUS-410 / SUS-420
		Cable: Standard VCT

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

STRUCTURAL DRAWING



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



MATERIAL AND STANDARD TABLE

Liquid	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	SCS13
		Motor Bracket	FC-200
		Mechanical Seal Bracket	FC-200
		Bottom Plate	SS41
Motor	Type	Type	Submersible dry type
		Insulation class	F Class (155°C)
		Inner protector	Auto Reset Motor Protector
	Material	Casing	SUS-304
		Main Shaft	SUS-304
		Cable	VCT

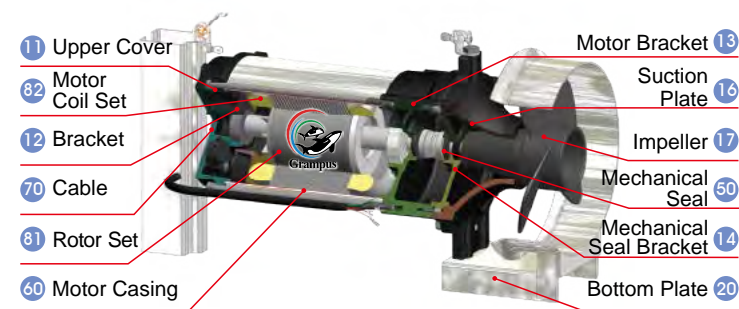
FEATURES

- 1.Compact design.
- 2.More efficient bulk flow.
- 3.The angular contact ball bearing resists axial force.

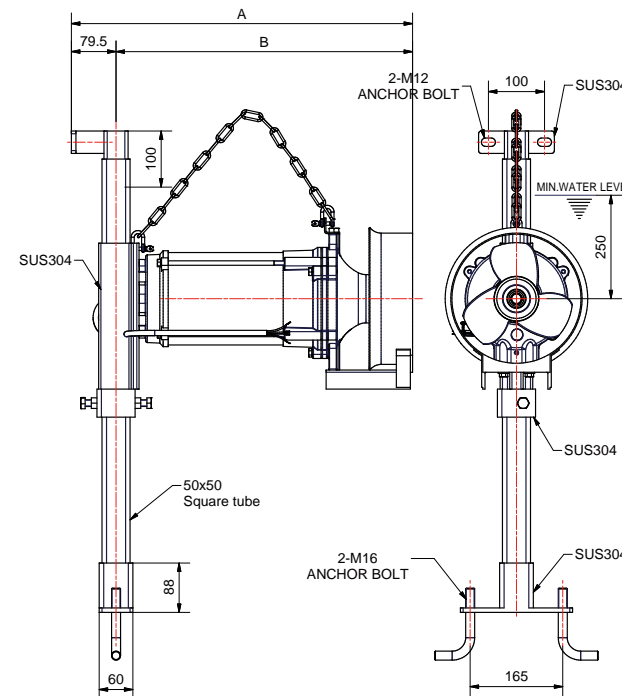
APPLICATION

- 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	538.5	459	
RM-313	3Ø	220/380	1	0.75	4P	3.2	2.02	538.5	459	
RM-325	3Ø	220/380	2	1.5	4P	4.5	2.50	588	508.5	
RM-337	3Ø	220/380	3	2.2	4P	6.8	3.50	608	528.5	



FS-1052 FS-112
FS-3052 FS-312

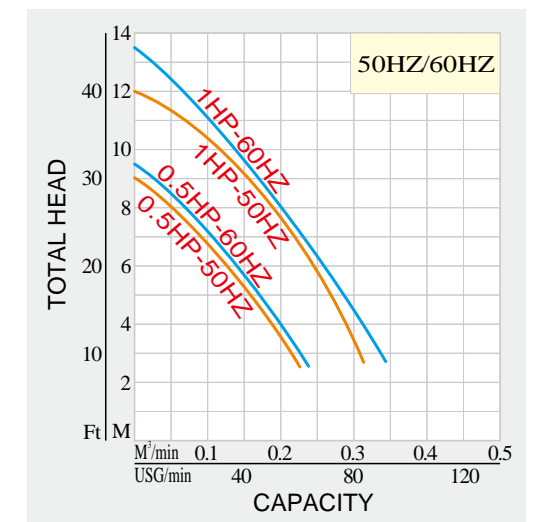


Schematic Drawing

FEATURES

1. The FS-series is a floating scum skimmer which is designed for the collection of foam scum on water surface, through by suction mouth to collect scum efficiently in order to reduce the manpower work.
2. By this floating type function, the suction part can keep its relative position with the water surface, which prevents operation failure due to changes in the water level.
3. Can be adjusted to any depth below the water surface by floater.

PERFORMANCE CURVE



SPECIFICATION

Type	Frequency	Phase	Voltage	Power		Caliber		Pole/Rotation	Std.Head	Std.Flow		Weight
TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P/rpm	M	M ³ /min		KG
FS-1052	50	3Ø	110/220	1/2	0.4	2"	50	2P / 2850 / 3450	5 M	4 M	0.16 0.20	26
FS-3052	50	3Ø	380	1/2	0.4	2"	50	2P / 2850 / 3450	5 M	4 M	0.16 0.20	25
FS-112	50	3Ø	110/220	1	0.75	2"	50	2P / 2850 / 3450	8 M	8 M	0.19 0.20	28
FS-312	50	3Ø	380	1	0.75	2"	50	2P / 2850 / 3450	8 M	8 M	0.19 0.20	28



TC-10515
TC-30515

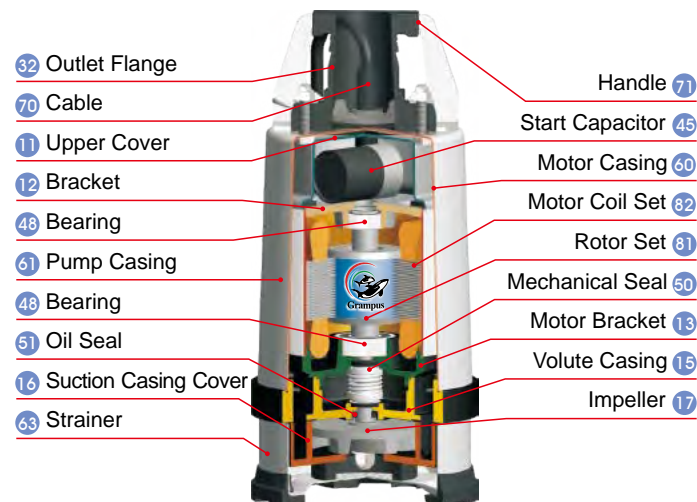


Youtube

APPLICATION

1. Ground and underground water suction.
2. Drainage of water tanks and water towers.
3. Home use drainage.

STRUCTURAL DRAWING



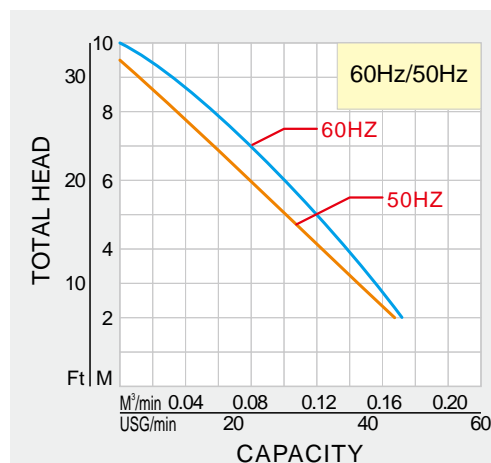
MATERIAL AND STANDARD TABLE

Liquid	Caliber		40mm
	Temperature		0°C~40°C(32°F~104°F)
	Application		Ground and underground water suction, Drainage of water tanks and water tower
	The lowest depth		▽30 M
Pump	Structure	Impeller	Semi-open Impeller
		Seal	Dual Mechanical Seal
	Material	Upper Cover	SUS-304
		Bearing	Heavy-duty bearing
		Impeller	FC-200
		Volute Casing	FC-200
		Suction Casing Cover	FC-200
		Strainer	SUS-304
		Seal	Lubricant
	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 / SUS-420
		Cable	Standard VCT / Optional

FEATURES

1. This pump has rubber suction pads for residual removal as low as 0.1~0.3 cm.
2. Special water-cooling design prevents the motor from overheating
3. Channel impellers are designed for high efficiency, power-saving, and prevent motors from overloading.
4. Lightweight and small size for easy transport. Plug-in option if needed.
5. Stainless steel casing and high-quality cast iron housing design for durability.

PERFORMANCE CURVE



SPECIFICATION

Type	Frequency		Phase	Power		Discharge		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
TC-10515	50	60	1Ø	½	0.4	1½"	40	2P / 2850 / 3450		5	6	0.10	0.10	9.5	10	0.22	0.20	15	
TC-30515	50	60	3Ø	½	0.4	1½"	40	2P / 2850 / 3450		5	6	0.10	0.10	9.5	10	0.22	0.20	15	



FEATURES

1. Float switch of cable type use special waterproof cable and precise micro switch, the internal control element is completely sealed inside the float, the action is completely not affected by external sewage and debris to cause wrong action with the rise and fall of the liquid level.
2. Additionally attached special float positioner (weight), it is easy for installation, freely adjust the length of the cable according to liquid level (between float and weight), to control water level when pump operating.

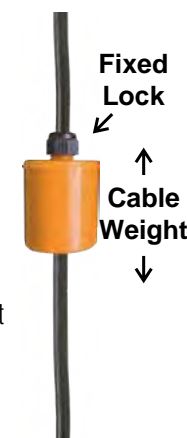
APPLICATION

1. Cable is processed by waterproof sealing treatment, effective blocking moisture and sealed entirely. Compliant with IP68 Standard.
2. Used for liquid level automatic control in swimming pools, sewage tanks, liquid tanks, and general underground water tanks.
3. Suitable for sewage, liquid of high viscosity. Cable Length: 3~15M for options, and equipped with automatic control weight of liquid.
4. Max.Voltage: AC 250VAC, 50/60Hz, with A and B two sets of connections.
5. Max.Current: 16(8)A. Operating temperature range is 0~60°C.
6. Cable is made of rubber H07RN-F European standard, which is highly flexible, more durable and not easy to get harden than general PVC material.

INSTRUCTION

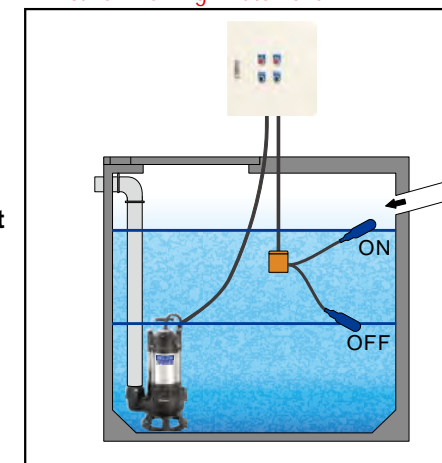
●CABLE WEIGHT USAGE:

- 1.Unlock the fixed lock of weight.
- 2.Slide weight up or down to applicable position.
- 3.Fix the fixed lock of the weight.
(The distance between weight and float shall not be less than 10 cm.)



●Water Drainage:

Active when high water level.

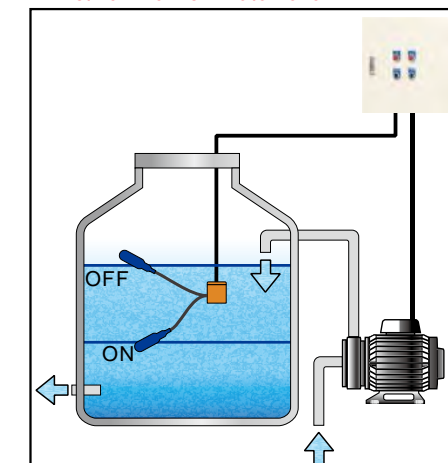


3 Cores or 2 Cores:

When the float is at higher position, the connection is on.
When the float is at lower position, the connection is off.

●Water Supply:

Active when low water level.



3 Cores:

When the float is at higher position, the connection is off.
When the float is at lower position, the connection is on.

SPECIFICATION

Type	Cable Length X Core	Cable Type	Withstand Voltage	Withstand Current	Accessories	Weight
CFA-32	3M X 2C	Water-proof sealed cable	250V	15A	Weight	0.79KG
CFA-33	3M X 3C	Water-proof sealed cable	250V	15A	Weight	0.79KG
CFA-53	5M X 3C	Water-proof sealed cable	250V	15A	Weight	1.03KG
CFA-103	10M X 3C	Water-proof sealed cable	250V	15A	Weight	1.58KG
CFA-153	15M X 3C	Water-proof sealed cable	250V	15A	Weight	2.17KG

TOS



TUS



■ SPECIFICATION

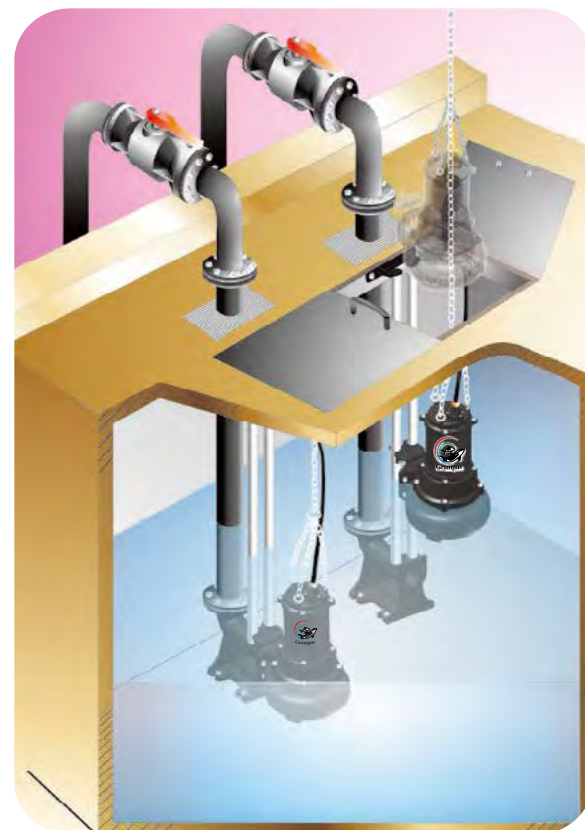
Type	Discharge	
TYPE	Inch	mm
TOS-2	2"	50
TOS-3	3"	80
TOS-4	4"	100
TOS-6	6"	150
TOS-8	8"	200

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

■ APPLICATION

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

■ Guide Rail System of Constitution



■ Guide Rail System

AS,BS,B,BV,GD and P series pumps with lift brackets are easy to repair and maintain by guide rail bars and chains. Additionally, they help pumps ascend and descend, assemble and disassemble, and it is safer and more convenient than traditional pumps.

■ ATTENTION

Depending on the installation situation at the project site, we have optional lifting devices. But the pump and guide rail are excluded from our lifting device, pump and guide rail need to be purchased separately.

JET



TOJ



■ SPECIFICATION

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

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

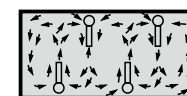
■ APPLICATION

Excellent equipment for aeration in various industries, such as industrial wastewater, sewage water aeration treatment, general sewer aeration engineering, and active slurry treatment in aeration tanks. Also excellent for wastewater mixing and animal husbandry.

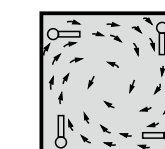
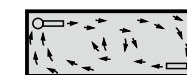
■ ATTENTION

Depending on the installation situation at the project site, we have an optional aeration device, but the pump and air pipe are excluded from our aeration device, so they must be purchased separately.

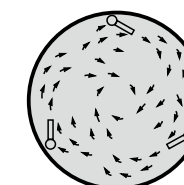
■ INSTALLATION CONSULTATION



A Rectangular Tank
(L:W=2:1) (L:W=5:1)



A Square Tank



A Circle Tank

■ AERATION PROCESS

Air Pipe

The vortex impeller produces a high-speed jet flow which causes a discrepancy of the minus pressure and barometric pressure in the mixing chamber to the air that is sucked into the mixing chamber through air pipe.

Mixing Chamber

The air sucked into the high-speed mixing chamber produces an upward convection of numerous tiny bubbles through the compression of air and water which causes the pressure to increase oxygen in the aeration tank.

Diffusing Pipe

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



ELBOW & Stainless Steel Elbow



ECD3 ECD3-2 ECR3 ECR3-2 ECR3-4 ECR4 ECR4-3 ECRA4



ECRA4-3 ECRA4-6 ECR6 ECR8 ECL4
ECL5

Elbow

Type	Discharge	Inlet PCD * Hole	Outlet PCD * Hole	Thread	Applicable Series
ECD3	3"	145 mm * 4 Hole	Diamond 140 mm * 2 Hole	PT or NPT	B, BF, BS, BSF
ECD3-2	3"→2"	145 mm * 4 Hole	Diamond 140 mm * 2 Hole	PT or NPT	B, BF, BS, BSF
ECR3	3"	145 mm * 4 Hole	Round 150 mm * 4 Hole	PT or NPT	AS
ECR3-2	3"→2"	145 mm * 4 Hole	Round 150 mm * 4 Hole	PT or NPT	AS
ECR3-4	3"→4"	145 mm * 4 Hole	Round 150 mm * 4 Hole	PT or NPT	B, BF, BS, BSF
ECR4	4"	145 mm * 4 Hole	Round 175 mm * 8 Hole	PT or NPT	B, BF, BS, BSF
ECR4-3	4"→3"	145 mm * 4 Hole	Round 175 mm * 8 Hole	PT or NPT	B, BF, BS, BSF
ECRA4	4"	165 mm * 4 Hole	Round 175 mm * 8 Hole	PT or NPT	AS
ECRA4-3	4"→3"	165 mm * 4 Hole	Round 175 mm * 8 Hole	PT or NPT	AS
ECRA4-6	4"→6"	165 mm * 4 Hole	Round 240 mm * 8 Hole	No Flange	AS
ECR6	6"	265 mm * 8 Hole	Round 240 mm * 8 Hole	No Flange	AS
ECR8	8"	265 mm * 8 Hole	Round 290 mm * 8 Hole	No Flange	AS
ECL4	4"	145 mm * 4 Hole	Direct Tube		B, BF, BS, BSF
ECL5	5"	145 mm * 4 Hole	Direct Tube		B, BF, BS, BSF



ESD3 ESD3-2 ESR4

Stainless Steel Elbow

Type	Discharge	Inlet PCD * Hole	Outlet PCD * Hole	Thread	Applicable Series
ESD3	3"	145 mm * 4 Hole	Diamond 140 mm * 2 Hole	PT or NPT	P, PF
ESD3-2	3"→2"	145 mm * 4 Hole	Diamond 140 mm * 2 Hole	PT or NPT	P, PF
ESR4	4"	145 mm * 4 Hole	Round 175 mm * 8 Hole	PT or NPT	P, PF

