

KNB CORPORATION

2014

**Submersible
Pump**



Overview

KNB submersible pump products offer quality, efficiency and long-term dependability.

These pumps are suited to applications such as drainage through to industrial liquid transfer.



KNB SUBMERSIBLE PUMP

Drainage



DA series
P. 8~9



DB series
P. 10~11



DC series
P. 12~13



DD series
P. 14~15



DE series
P. 16~17



DF series
P. 18~19

Gardening

High Pressure



HA series
P. 24~25



HB series
P. 26~27



RA series
P. 20~21



RB series
P. 22~23

Grinder



GA series
P. 40~41



GB series
P. 42~43

Sewage



SA series
P. 30~31



SB series
P. 32~33



SC series
P. 34~35

Industrial



IA series
P. 44~45



SD series
P. 36~37



SE series
P. 38~39



IB series
P. 46~47



IC series
P. 48~49

Booster



BA series
P. 50~51



BB series
P. 52~53



BC series
P. 54~55



BD series
P. 56~57

OVERVIEW

For an initial overview of our product range, look at the chart below. The products are divided into three groups:

1. Home Applications: drainage, garden and high pressure pump.
2. Wastewater: sewage and grinder pump.
3. Industrial Applications: industrial pump and Booster pump.

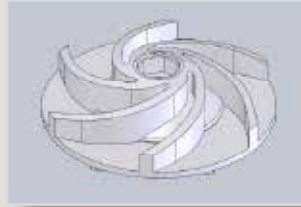
Home Applications

KNB home application products consistently outdo them all in terms of reliability, efficiency, durability and ease of installation. The standard setter for quality, it always provides comfort you can count on.

Our product range includes drainage, garden and high-pressure pump suitable for your every need.

Let KNB home application pumps create new life for you!





Non-centrifugal impeller



Optional Float Switch



Product Features

- Compact design.
- Lightweight and portable.
- The motor is cooled by the pumped liquid.
- DA can pump down to 3 mm water level.
- Suitable for pumping sea water.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 40 LPM (2.4m³/h)

Max. head: 4m

Max. particle size: 5mm

PH values: 6 to 8

Power: 1/10HP/ 80W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

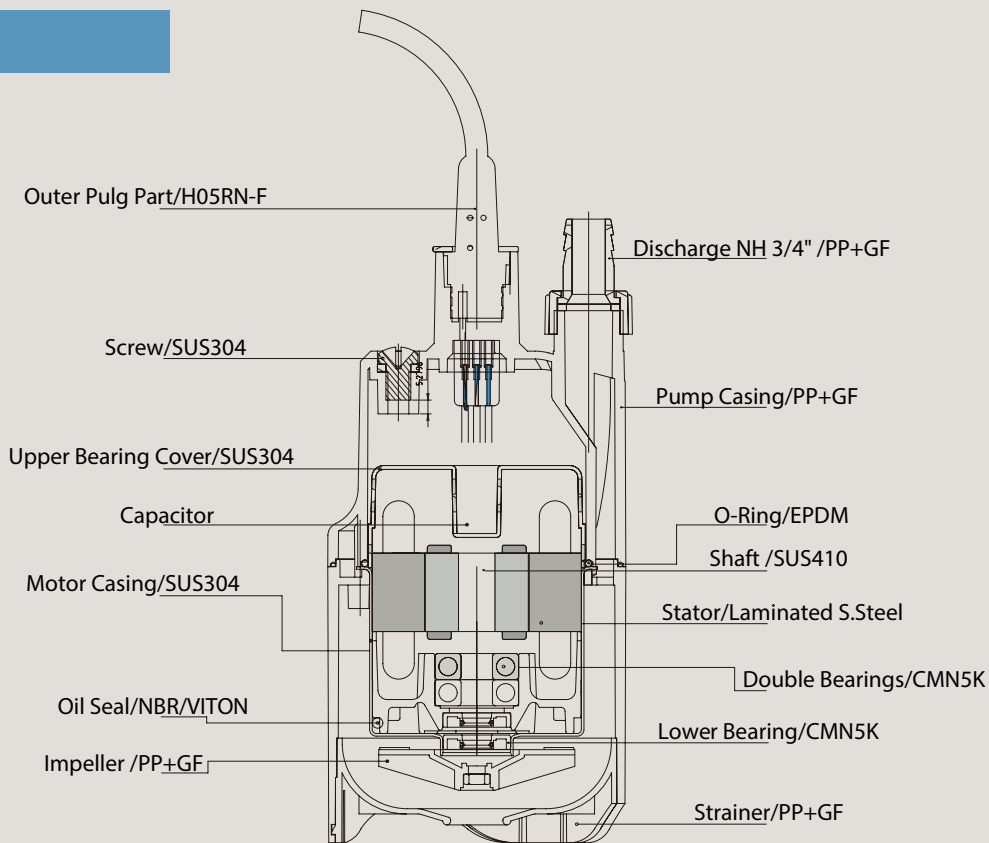
Installation depth: Max. 6m below liquid level

Material: GF/PP

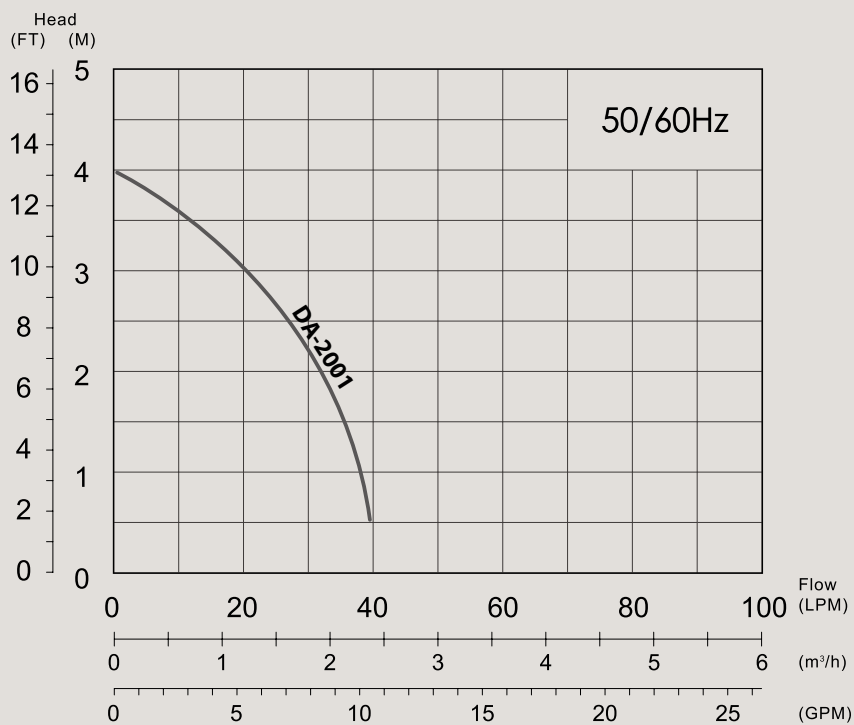
Applications

- Sump and general drainage
- Pool emptying and fountains
- Residential and light commercial sewage applications
- Creating streams and waterfalls in your garden pond
- Removing rain or flood water from your floors and any other locations

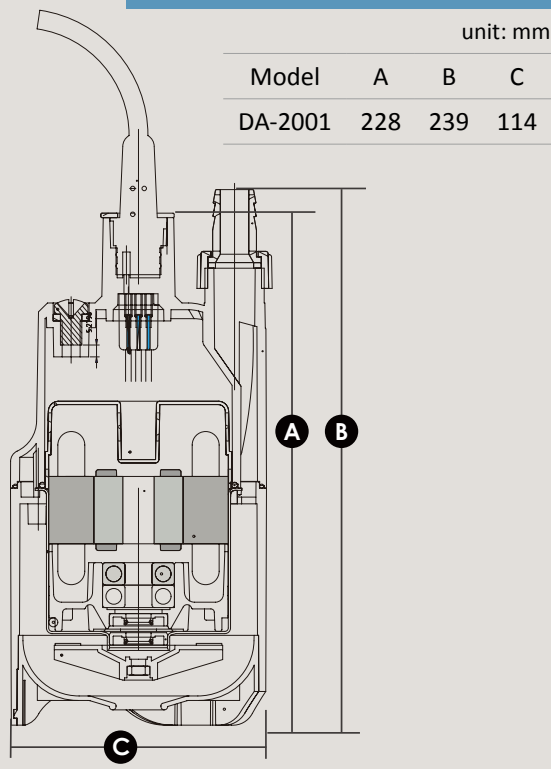
Constructions



Performance Curve



Dimensions



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			1M	2M	3M	4M	5M			
DA-2001	1/10	80	20	3/4"	5	40	38	33	20	-	-	4	228 x 114 x 239	3



Semi-open impeller



Optional Float Switch

Product Features

- Compact design.
- Lightweight and portable.
- The motor is cooled by the pumped liquid.
- Suitable for pumping sea water.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 140LPM (8.4m³/h)

Max. head: 7m

Max. particle size: 5mm

PH values: 6 to 8

Power: 1/4HP/ 200W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

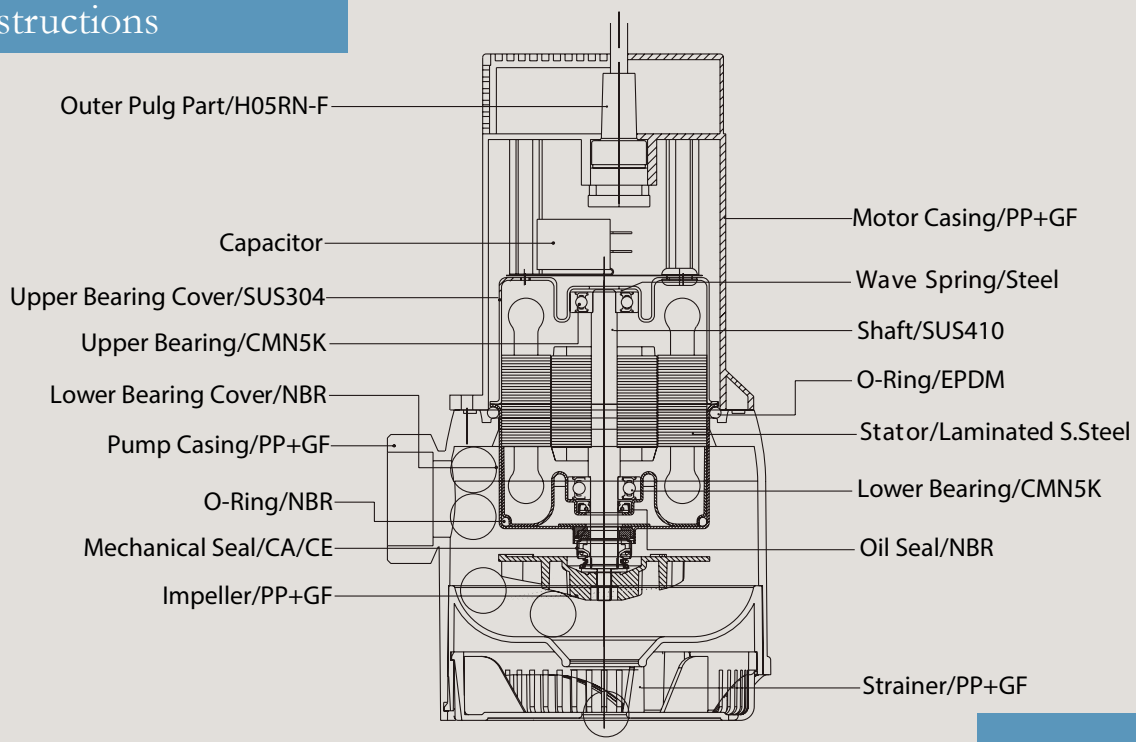
Installation depth: Max. 6m below liquid level

Material: GF/PP

Applications

- Sump and general drainage
- Pool emptying and fountains
- Residential and light commercial sewage applications
- Creating streams and waterfalls in your garden pond
- Removing rain or flood water from your floors and any other locations

Constructions

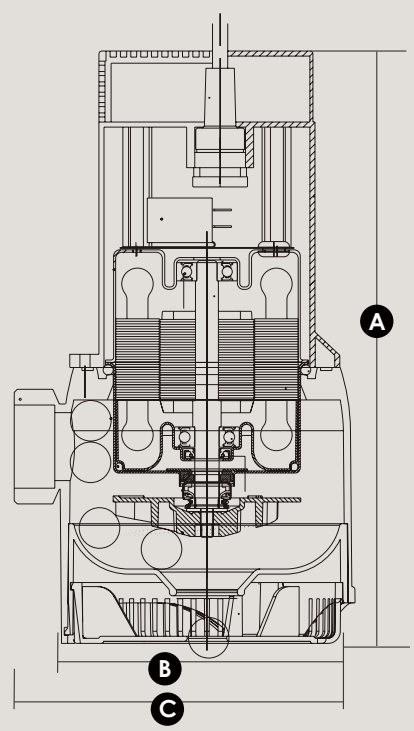
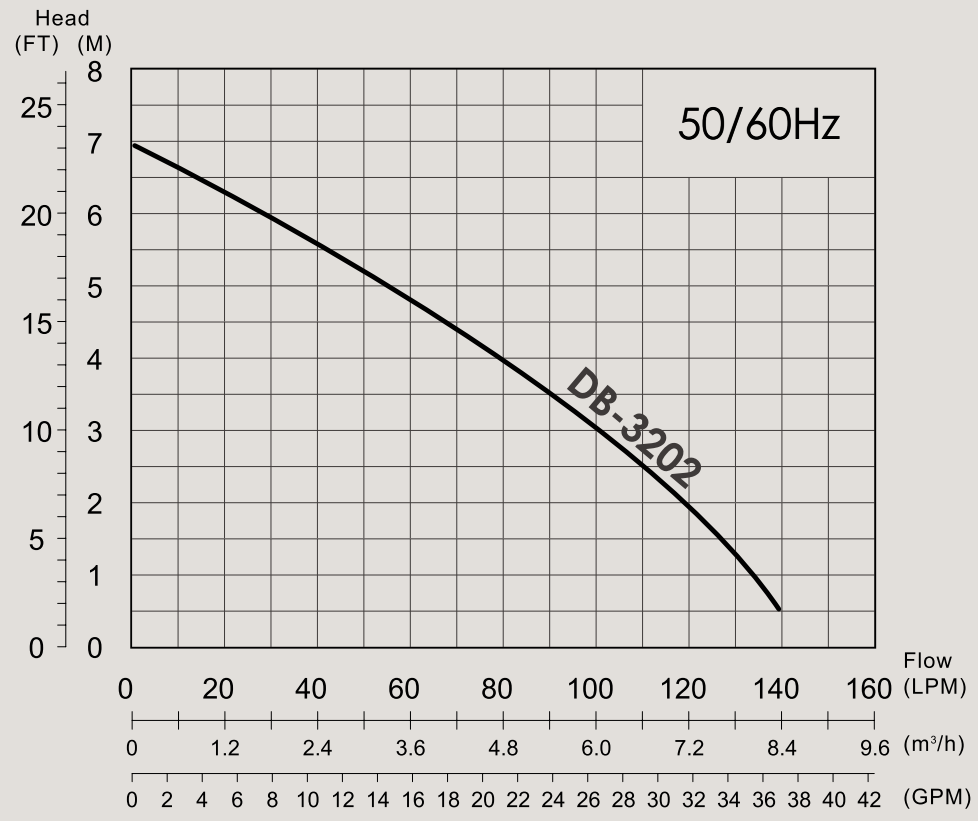


Dimensions

unit: mm

Model	A	B	C
DB-3202	292	145	168

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			1M	2M	3M	4M	5M			
DB-3202	1/4	200	32	1-1/4"	5	140	135	120	100	80	55	7	168 x 145 x 292	4



Product Features

- Compact design.
- Lightweight and portable.
- The motor is cooled by the pumped liquid.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 180LPM (10.8m³/h)

Max. head: 7m

Max. particle size: 5mm

PH values: 6 to 8

Power: 1/4HP/ 200W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

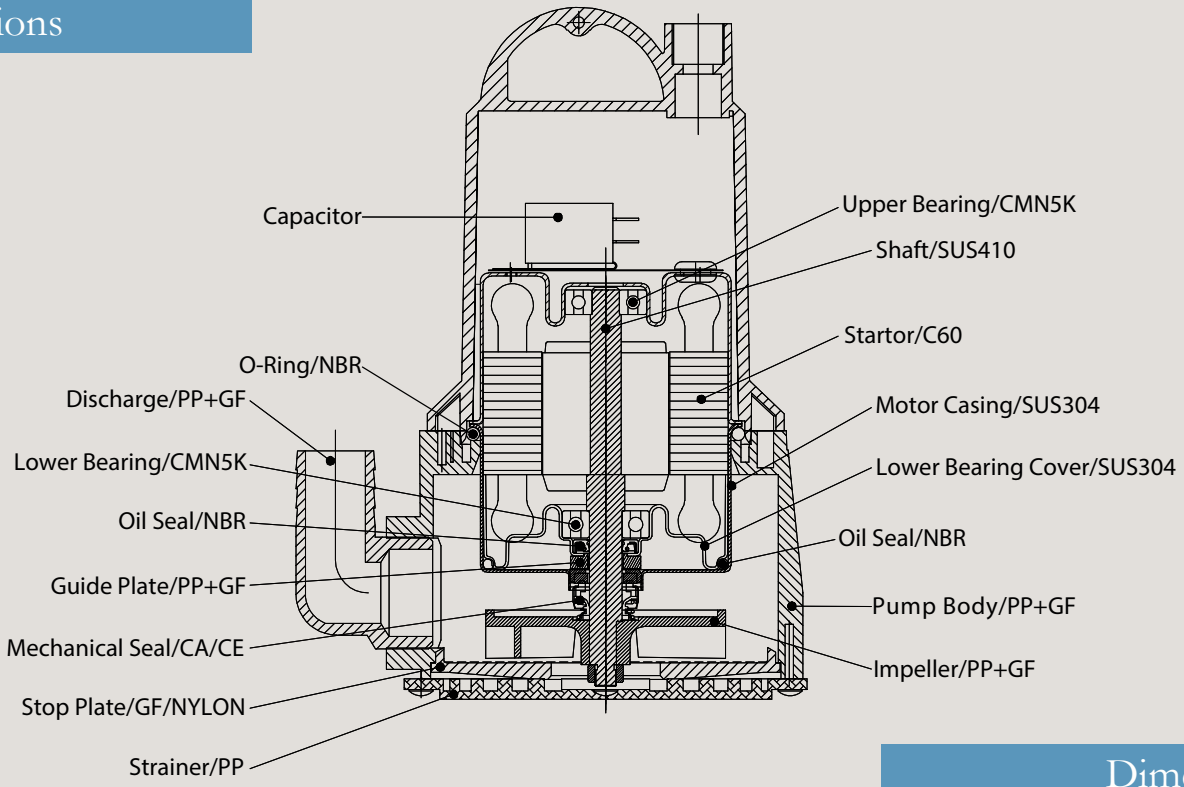
Installation depth: Max. 6m below liquid level

Material: GF/PP

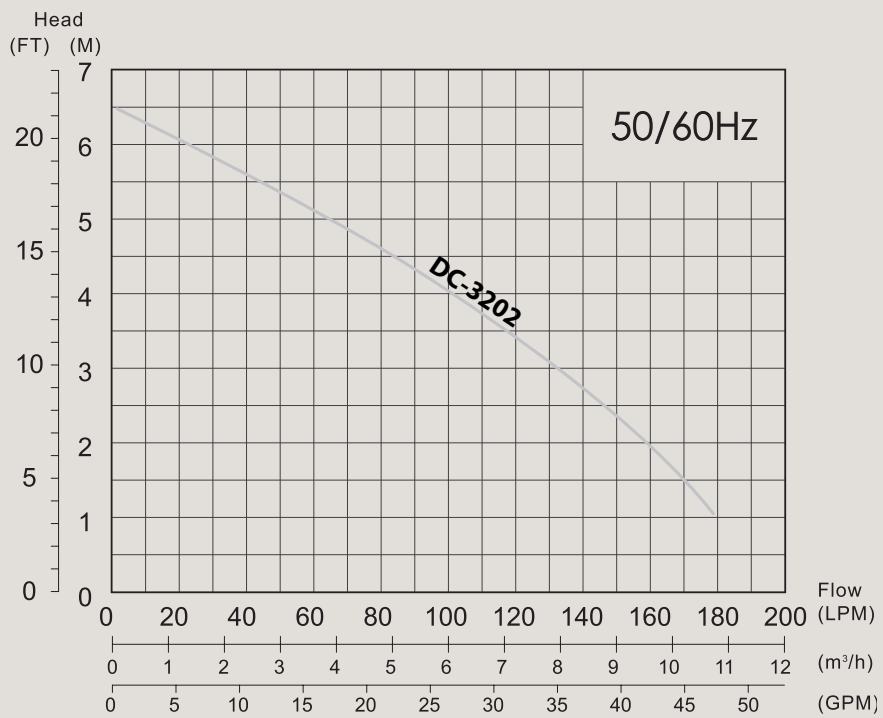
Applications

- Sump and general drainage
- Pool emptying and fountains
- Residential and light commercial sewage applications
- Creating streams and waterfalls in your garden pond
- Removing rain or flood water from your floors and any other locations

Constructions



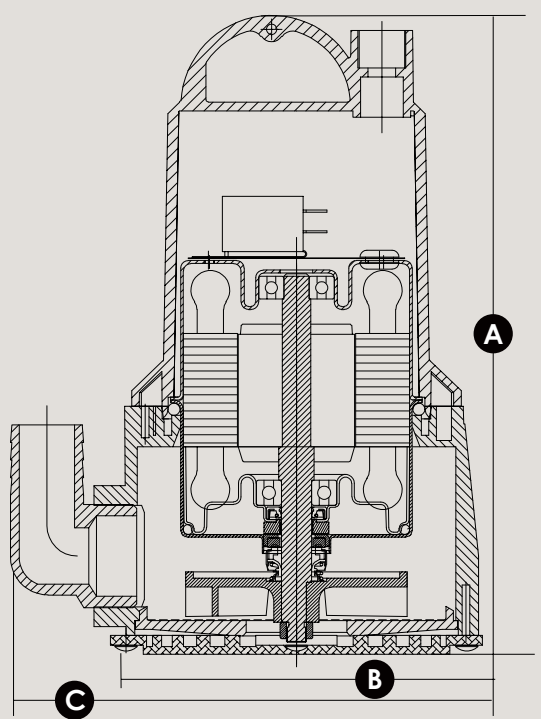
Performance Curve



Dimensions

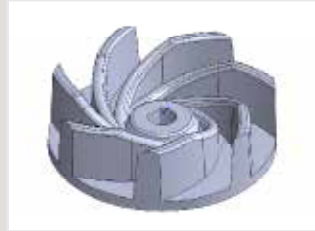
unit: mm

Model	A	B	C
DC-3202	257	148	189



Specifications

Model	Output		Outlet		Pump Passage	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			1.5M	2M	3M	4M	5M			
DC-3202	1/4	200	32	1-1/4"	5	180	170	160	130	100	65	7	189 x 148 x 257	4



Semi-open impeller



Optional Float Switch



Product Features

- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Robust construction.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 360LPM (21.6m³/h)

Max. head: 12m

Max. particle size: 14mm

PH values: 6 to 8

Power: 1/3HP to 1HP/ 250W to 750W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

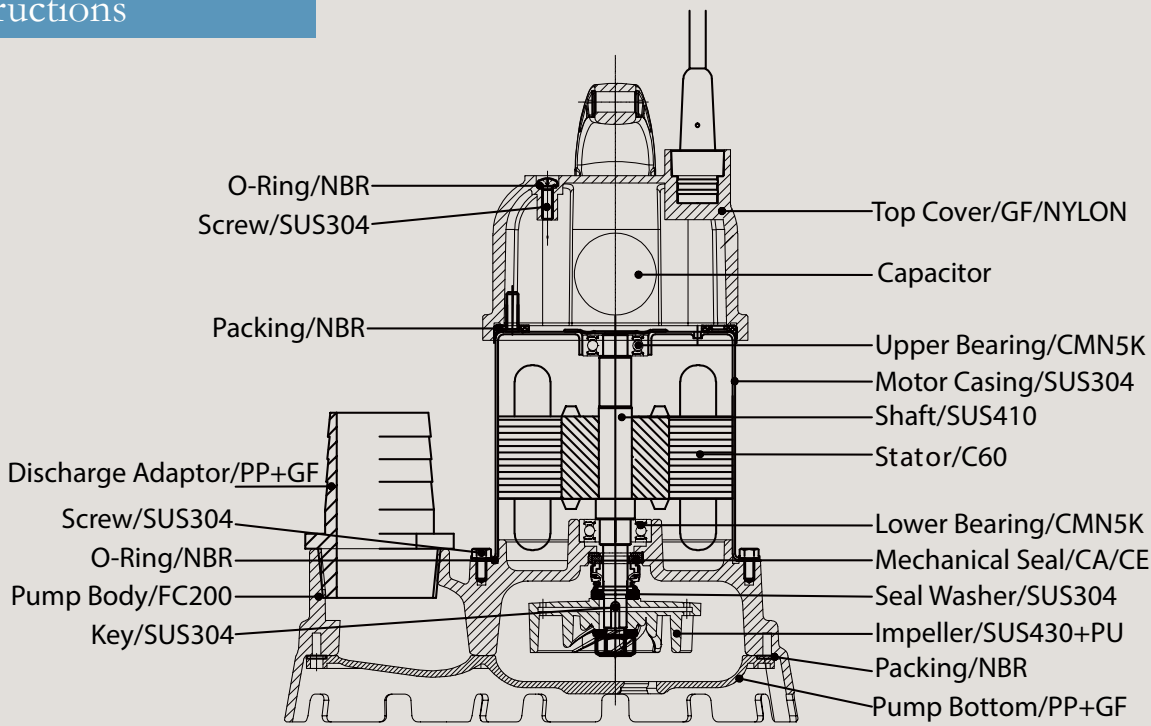
Installation depth: Max. 8m below liquid level

Material: Motor casing - Stainless steel / Pump body - Cast iron

Applications

- Sump and general drainage
- Residential and light commercial sewage applications
- Domestic wastewater
- Industrial wastewater
- Emergency draining in flooded areas

Constructions

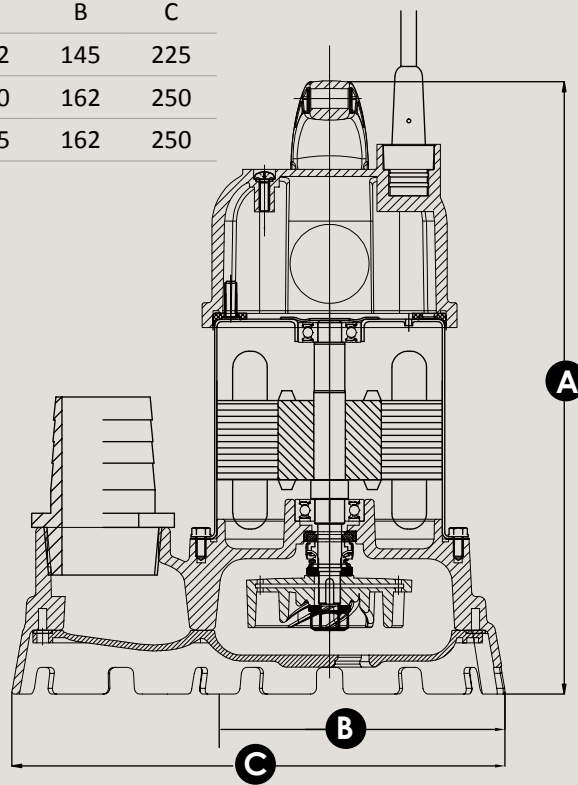
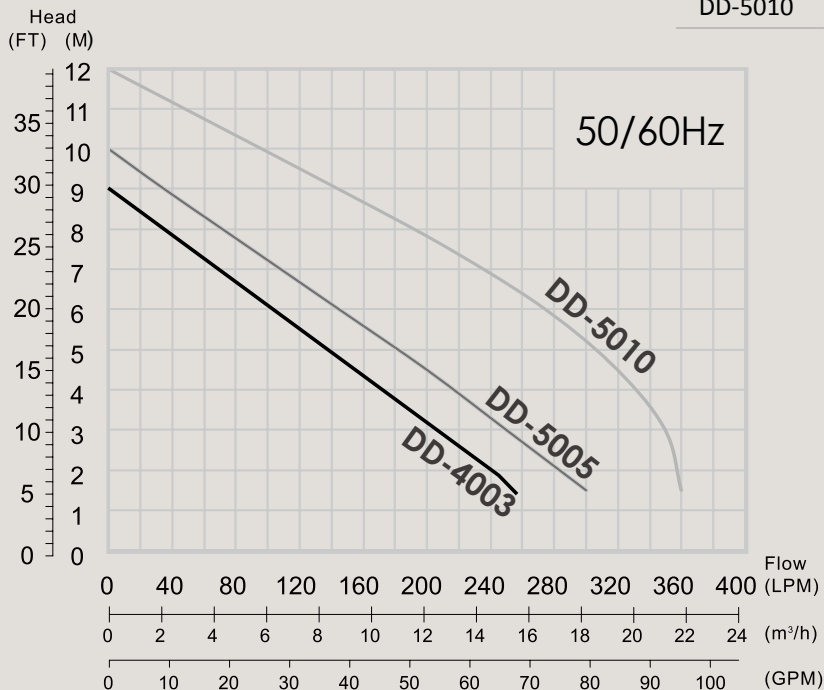


Dimensions

unit: mm

Model	A	B	C
DD-4003	282	145	225
DD-5005	300	162	250
DD-5010	325	162	250

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			3M	4.5M	6M	7.5M	9M			
DD-4003	1/3	250	40	1-1/2"	14	250	215	160	105	45	-	9	225 x 145 x 282	8
DD-5005	1/2	400	50	2"	14	300	250	200	145	90	35	10	250 x 162 x 300	9
DD-5010	1	750	50	2"	14	360	350	320	275	215	145	12	250 x 162 x 325	10

**Impeller Design**

Product Features

- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Robust construction.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 630LPM (38m³/h)

Max. head: 15m

Max. particle size: 20mm

PH values: 6 to 8

Power: 1/5HP to 2HP/ 150W to 1500W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

Installation depth: Max. 8m below liquid level

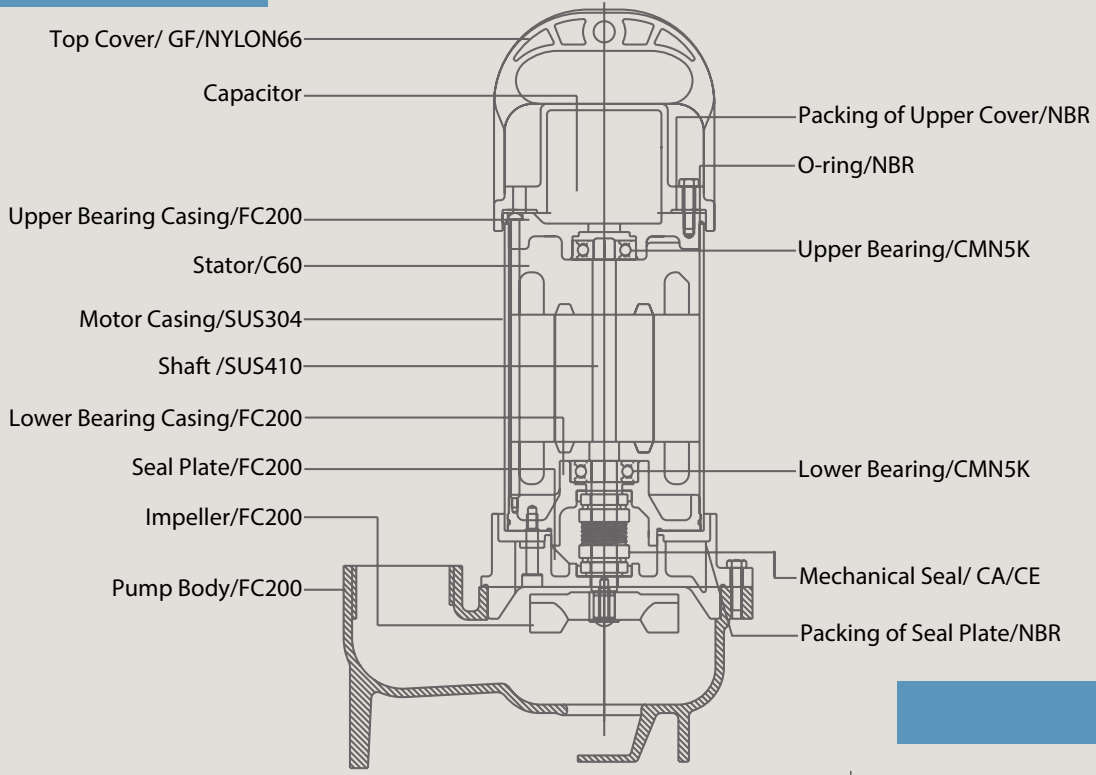
Material: Motor casing - Stainless steel /

Pump body - Cast iron

Applications

- Sump and general drainage
- Residential and light commercial sewage applications
- Domestic wastewater
- Industrial wastewater

Constructions

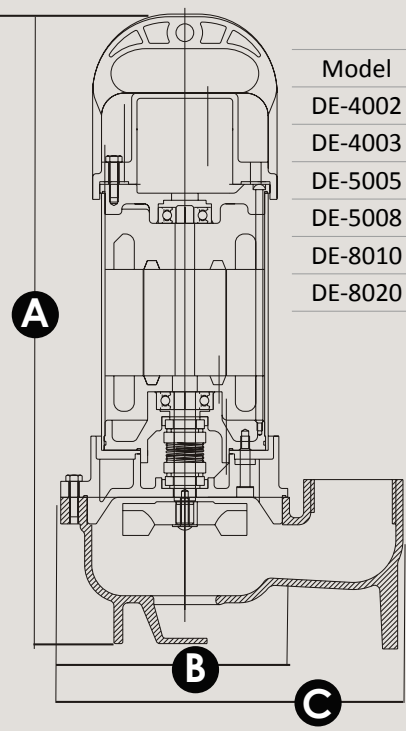
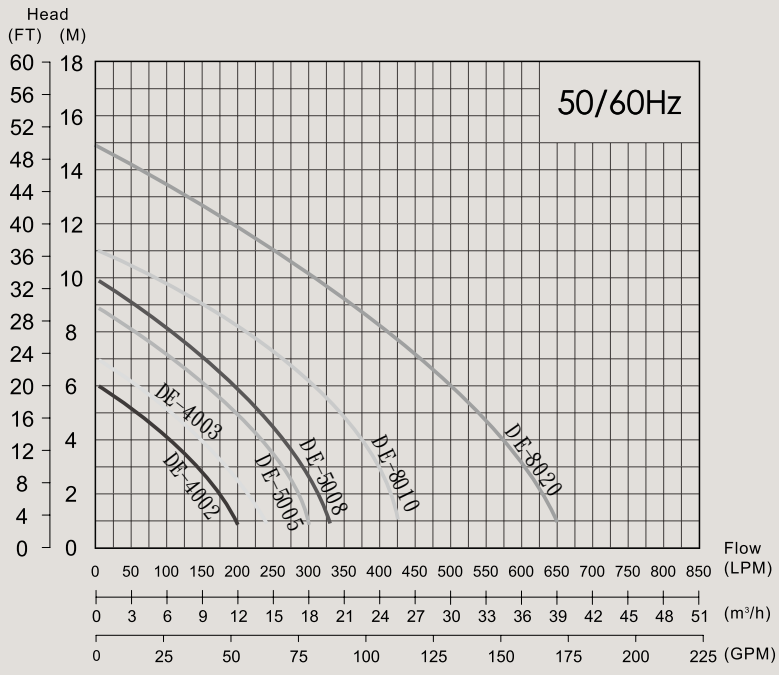


Dimensions

unit: mm

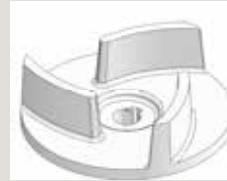
Model	A	B	C
DE-4002	360	140	190
DE-4003	360	140	190
DE-5005	370	155	215
DE-5008	430	160	260
DE-8010	430	160	260
DE-8020	610	270	350

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension	Weight Kg
	HP	W	mm	inch	mm		1.5M	3M	4.5M	6M	7.5M		L x W x H(mm)	
DE-4002	1/5	150	40	1-1/2"	5	200	190	150	85	-	-	6	190 x 140 x 360	8
DE-4003	1/3	250	40	1-1/2"	5	240	230	185	130	60	-	7	190 x 140 x 360	9
DE-5005	1/2	400	50	2"	10	300	295	270	220	155	70	9	215 x 155 x 370	12
DE-5008	3/4	550	50	2"	15	330	320	290	250	190	120	10	260 x 160 x 430	13
							1.5M	3M	6M	9M	12M			
DE-8010	1	750	80	3"	15	430	420	395	315	150	-	11	260 x 160 x 430	19
DE-8020	2	1500	80	3"	20	630	620	580	470	340	190	15	350 x 270 x 610	31



Impeller Design



Optional Float Switch



Product Features

- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Robust construction.
- Supplied with or without float switch.

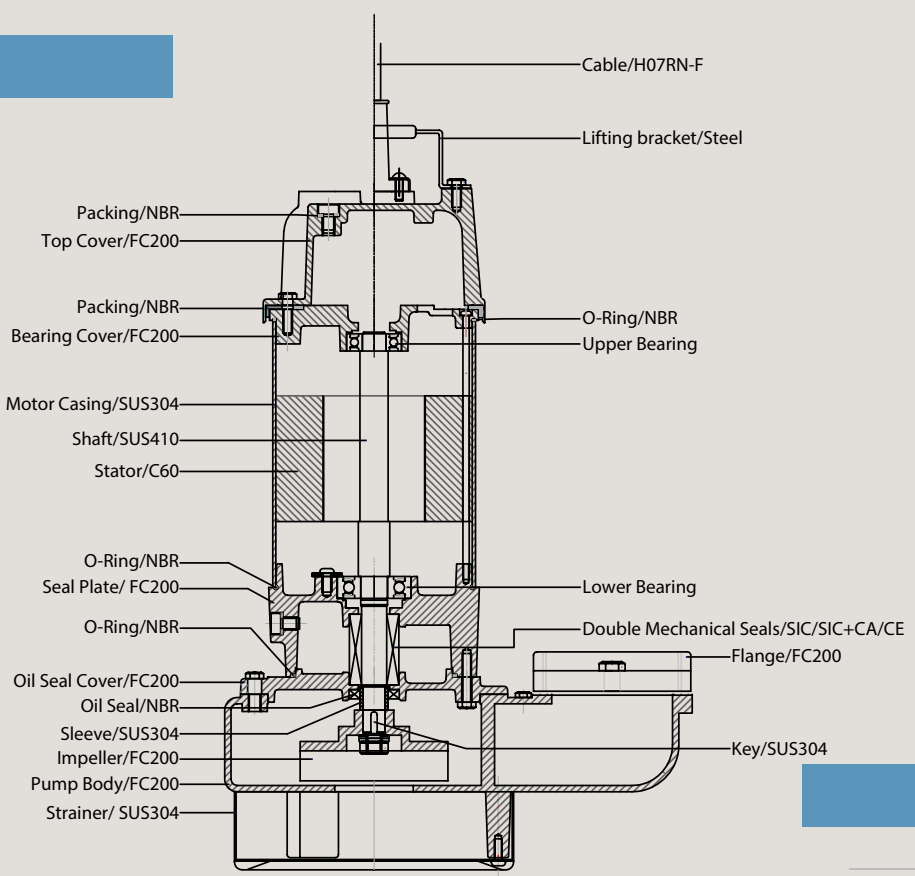
Technical Data

Max. flow rate: 1050LPM (63m³/h)
Max. head: 11.5m
Max. particle size: 10mm
PH values: 6 to 8
Power: 1HP to 2HP/ 0.75kW to 1.5kW
Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F
Degree of protection: IP 68
Installation depth: Max. 8m below liquid level
Material: Motor casing - Stainless steel /
Pump body - Cast iron

Applications

- Sump and general drainage
- Residential and light commercial sewage applications
- Domestic wastewater
- Industrial wastewater

Constructions

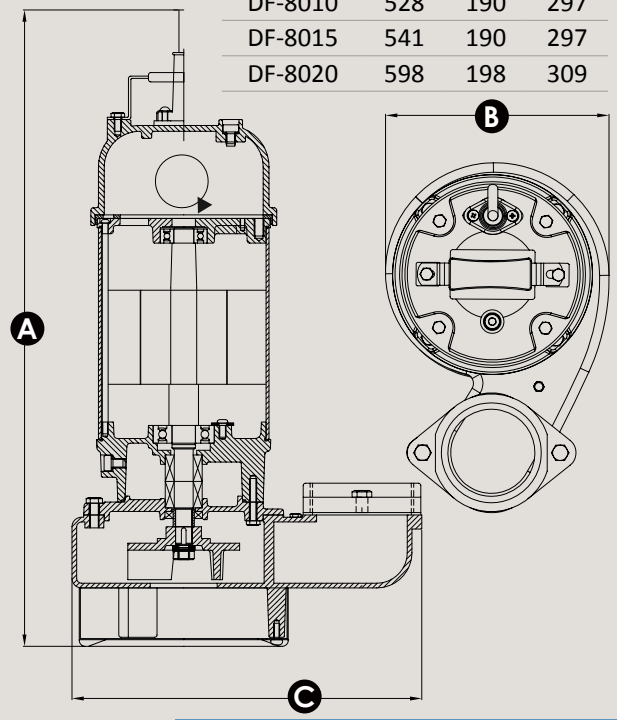
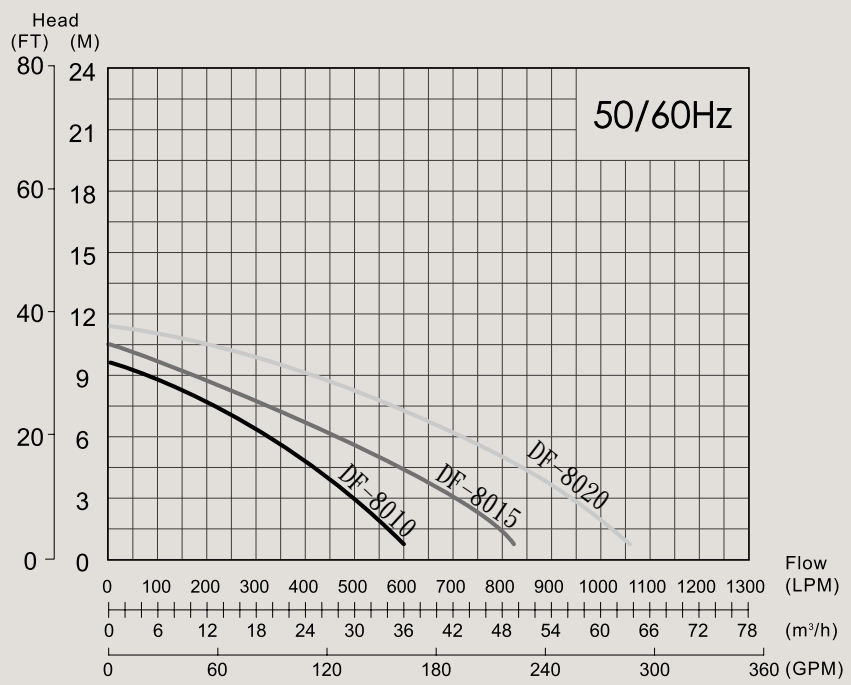


Dimensions

unit: mm

Model	A	B	C
DF-8010	528	190	297
DF-8015	541	190	297
DF-8020	598	198	309

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	kW	mm	inch			3M	4.5M	6M	7.5M	9M			
DF-8010	1	0.75	80	3"	10	600	530	440	320	175	45	9.5	297 x 190 x 528	23
DF-8015	1.5	1.1	80	3"	10	820	710	580	440	270	100	10	297 x 190 x 541	27
DF-8020	2	1.5	80	3"	10	1050	990	900	790	630	450	11.5	309 x 198 x 598	31

Product Features

- Can be 24-hour continuous operation.
- Suitable for vertical or horizontal installation.
- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Robust construction.
- Lightweight and portable.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 380LPM (23m³/h)

Max. head: 11m-50Hz / 13m-60Hz

Max. particle size: 6mm

PH values: 6 to 8

Power: 1/5HP to 1HP/ 150W to 750W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

Installation depth: Max. 8m below liquid level

Material: Motor casing - Stainless steel / Pump body - GF/Nylon

Applications

- Lawn and garden irrigation
- Sump and general drainage
- Pool emptying and fountains
- Creating streams and waterfalls in your garden pond
- Removing rain or flood water from your floors and any other locations



RA-5002/5003
NYLON+GF



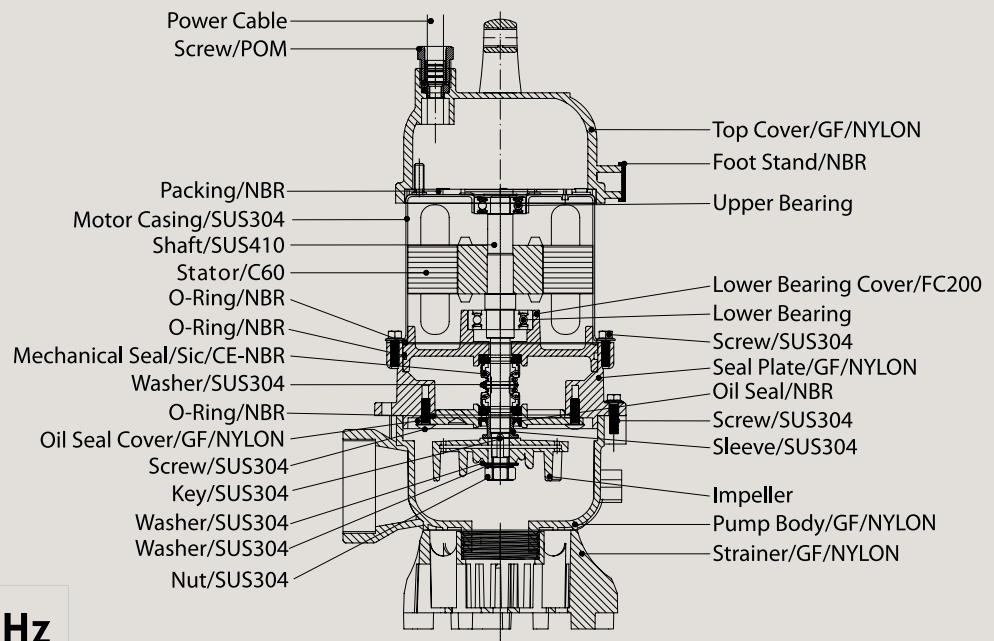
RA-5005/5010
SUS430+PU



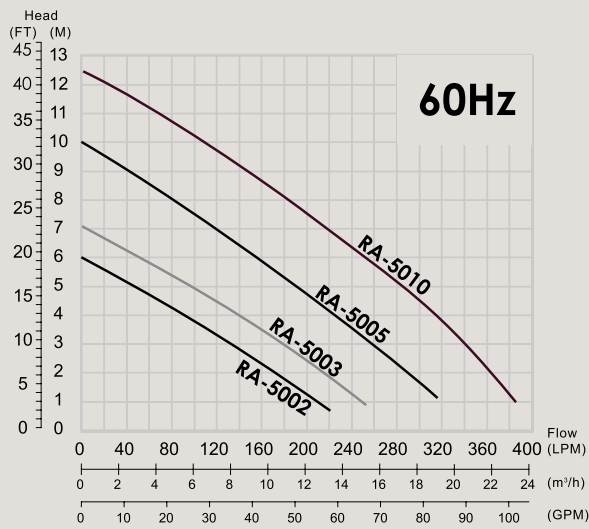
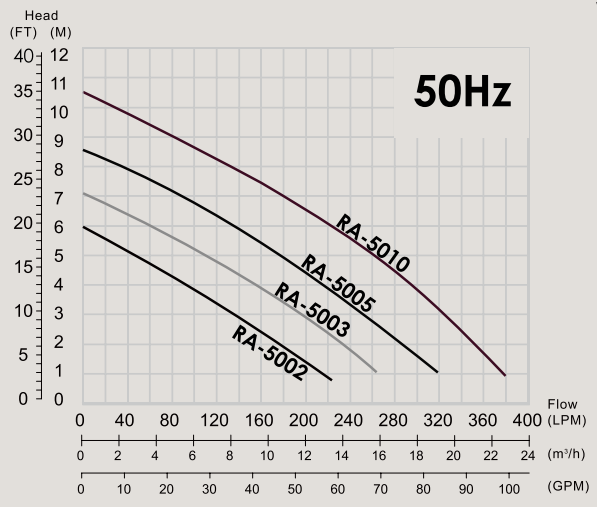
Vertical & horizontal
Installation

Impeller Design

Constructions



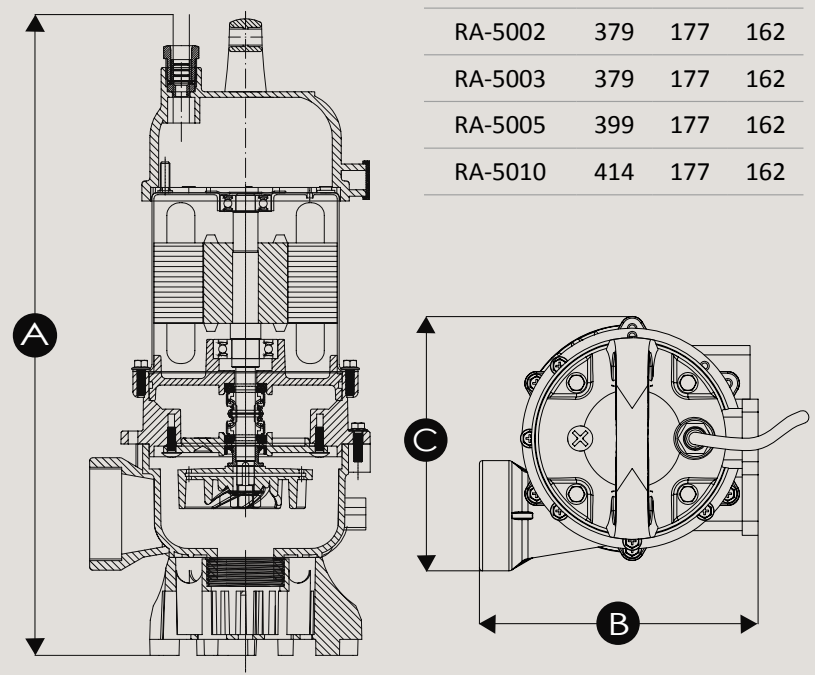
Performance Curve



Dimensions

unit: mm

Model	A	B	C
RA-5002	379	177	162
RA-5003	379	177	162
RA-5005	399	177	162
RA-5010	414	177	162



Specifications

Hz	Model	Output		Outlet mm inch	Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)								Max Head (M)	Dimension L x W x H(mm)	Weight Kg
		HP	W				1.5M	3M	4M	6M	8M	10M	12M				
50	RA-5002	1/5	150	50 2"	6	230	200	150	100	-	-	-	-	6	177 x 162 x 379	7	
	RA-5003	1/3	250			270	255	190	150	60	-	-	-	7			
	RA-5005	1/2	400			320	310	255	215	130	25	-	-	9			
	RA-5010	1	750			380	370	330	295	220	125	20	-	11			
							1.5M	3M	4M	6M	8M	10M	12M				
60	RA-5002	1/5	150	50 2"	6	230	200	150	100	-	-	-	-	6	177 x 162 x 379	7	
	RA-5003	1/3	250			250	230	180	135	50	-	-	-	7			
	RA-5005	1/2	400			320	300	250	215	148	75	-	-	10			
	RA-5010	1	750			380	370	340	315	255	185	110	30	13			



Product Features

- Can be 24-hour continuous operation.
- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Robust construction.
- Lightweight and portable.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 360LPM (22m³/h)-50Hz
380LPM (23m³/h)-60Hz

Max. head: 11m-50Hz / 13m-60Hz

Max. particle size: 25mm

PH values: 6 to 8

Power: 1/5HP to 1HP/ 150W to 750W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

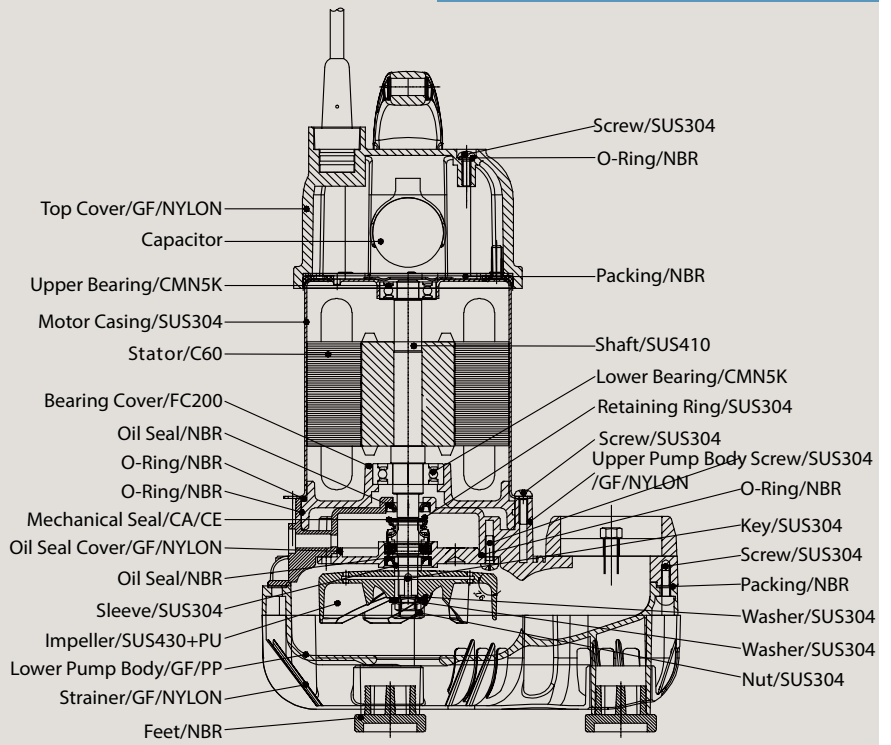
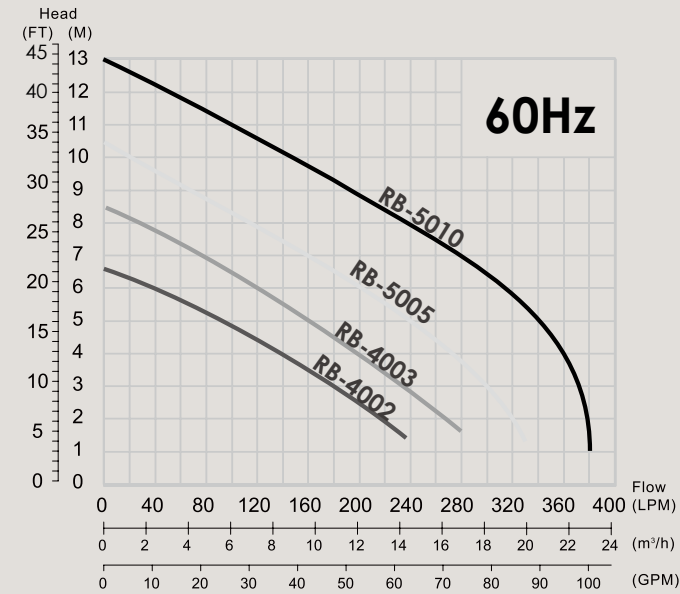
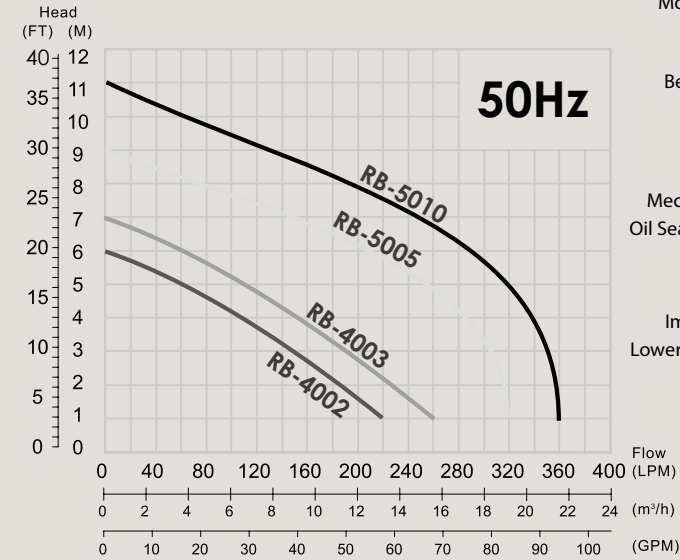
Installation depth: Max. 6m below liquid level

Material: Motor casing - Stainless steel / Pump body - GF/Nylon

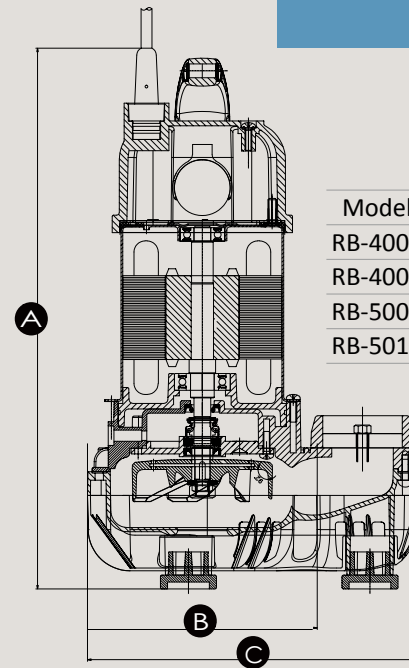
Applications

- Lawn and garden irrigation
- Sump and general drainage
- Pool emptying and fountains
- Creating streams and waterfalls in your garden pond
- Removing rain or flood water from your floors and any other locations

Performance Curve



Dimensions



unit: mm

Model	A	B	C
RB-4002	352	164	236
RB-4003	352	164	236
RB-5005	372	164	236
RB-5010	387	164	236

Specifications

* The pump passage is 8 mm with strainer.

Hz	Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
		HP	W	mm	inch			2M	4M	6M	8M	10M			
50	RB-4002	1/5	150	50	2"	25	230	210	100	-	-	-	6	236 x 164 x 352	7
	RB-4003	1/3	250				270	260	185	60	-	-	7	236 x 164 x 352	8
	RB-5005	1/2	400				320	315	275	200	75	-	9	236 x 164 x 372	8
	RB-5010	1	750				360	355	355	280	180	60	11	236 x 164 x 387	9
60	RB-4002	1/5	150	50	2"	25	240	225	130	25	-	-	7	236 x 164 x 352	7
	RB-4003	1/3	250				280	270	205	115	25	-	9	236 x 164 x 352	8
	RB-5005	1/2	400				330	320	260	190	110	20	11	236 x 164 x 372	8
	RB-5010	1	750				380	375	355	310	240	150	13	236 x 164 x 387	9



Impeller Design

Product Features

- High quality stainless steel materials.
- Robust construction.
- Lightweight and portable.
- The motor is cooled by the pumped liquid.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 100LPM ($6\text{m}^3/\text{h}$)

Max. head: 60m

Max. particle size: 1.2mm

PH values: 6 to 8

Power: 1/2HP to 1.8HP/ 400W to 1350W

Liquid Temp.: 0°C to 40°C / $+32^{\circ}\text{F}$ to $+104^{\circ}\text{F}$

Degree of protection: IP 68

Installation depth: Max. 20m below liquid level

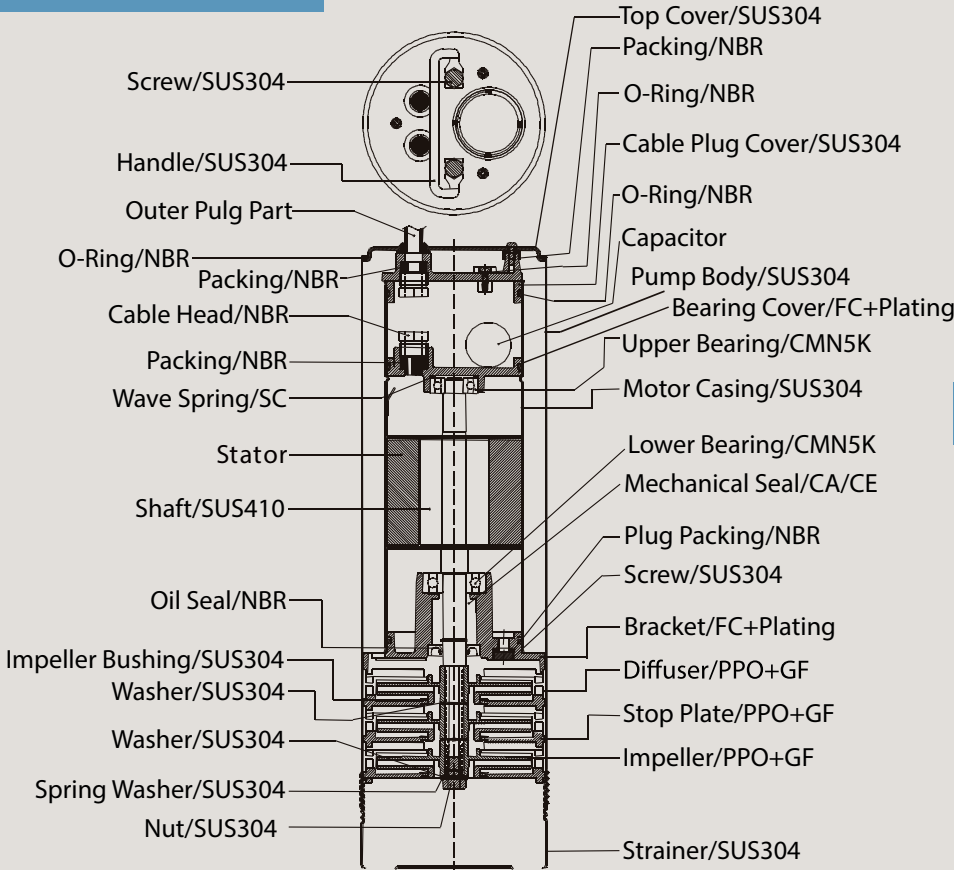
Material: Stainless steel

Applications

- Water supply from water supply tanks or reservoirs
- 5" wells, basins and watercourses.
- Sprinkler irrigation systems.
- Pressure boosting with pumps inserted directly inside tank or well, to reduce suction problems and noise.
- Boosting of public water and emptying of garden ponds.



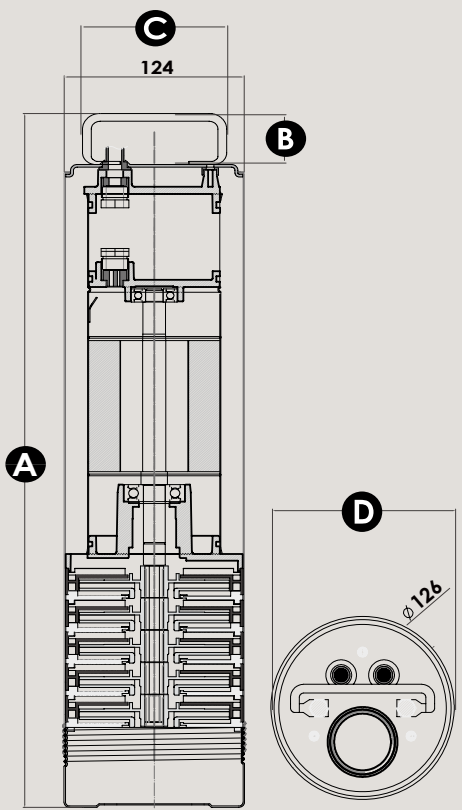
Constructions



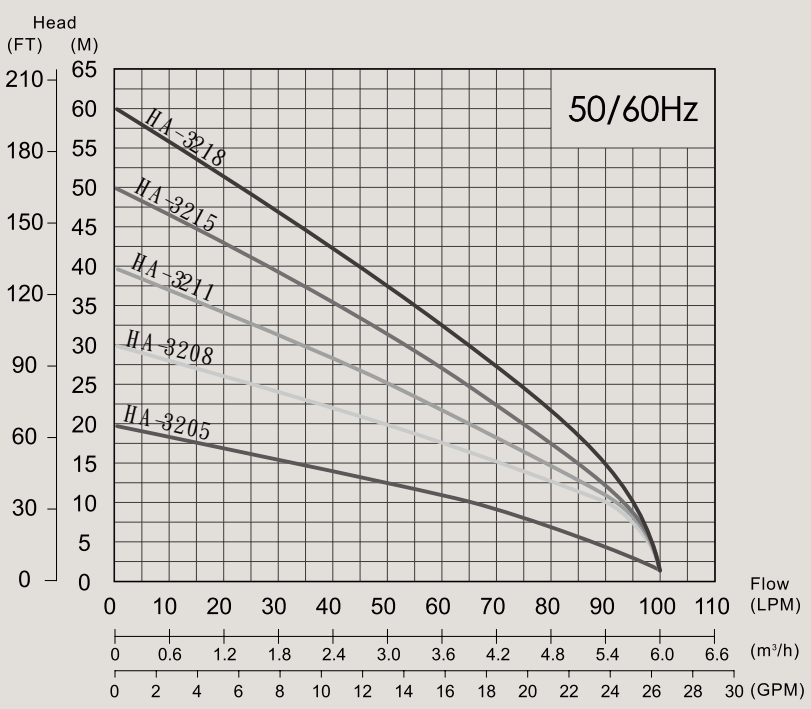
Dimensions

unit: mm

Model	A	B	C	D
HA-3205	463			
HA-3208	485			
HA-3211	511	39	98	126
HA-3215	559			
HA-3218	583			



Performance Curve



Specifications

Model	Stages	Output		Outlet		Pump Passage (mm)	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H (mm)	Weight Kg
		HP	W	mm	inch			5M	10M	20M	30M	40M			
HA-3205	2	1/2	400	32	1-1/4"	1.2	100	87	65	-	-	-	20	126 x 126 x 463	9
HA-3208	3	3/4	600	32	1-1/4"	1.2	100	97	90	50	-	-	30	126 x 126 x 485	9
HA-3211	4	1.1	800	32	1-1/4"	1.2	100	97	92	65	35	-	40	126 x 126 x 511	10
HA-3215	5	1.5	1100	32	1-1/4"	1.2	100	98	93	75	53	28	50	126 x 126 x 559	11
HA-3218	6	1.8	1350	32	1-1/4"	1.2	100	98	95	83	65	45	60	126 x 126 x 583	11



Upper Impeller Lower Impeller

Impeller Design**Product Features**

- High quality stainless steel materials.
- Robust construction.
- 2-stage, Double impellers & high head design.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 220LPM (13.2m³/h)

Max. head: 25m

Max. particle size: 8mm

PH values: 6 to 8

Power: 1/2HP to 1HP/ 400W to 750W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

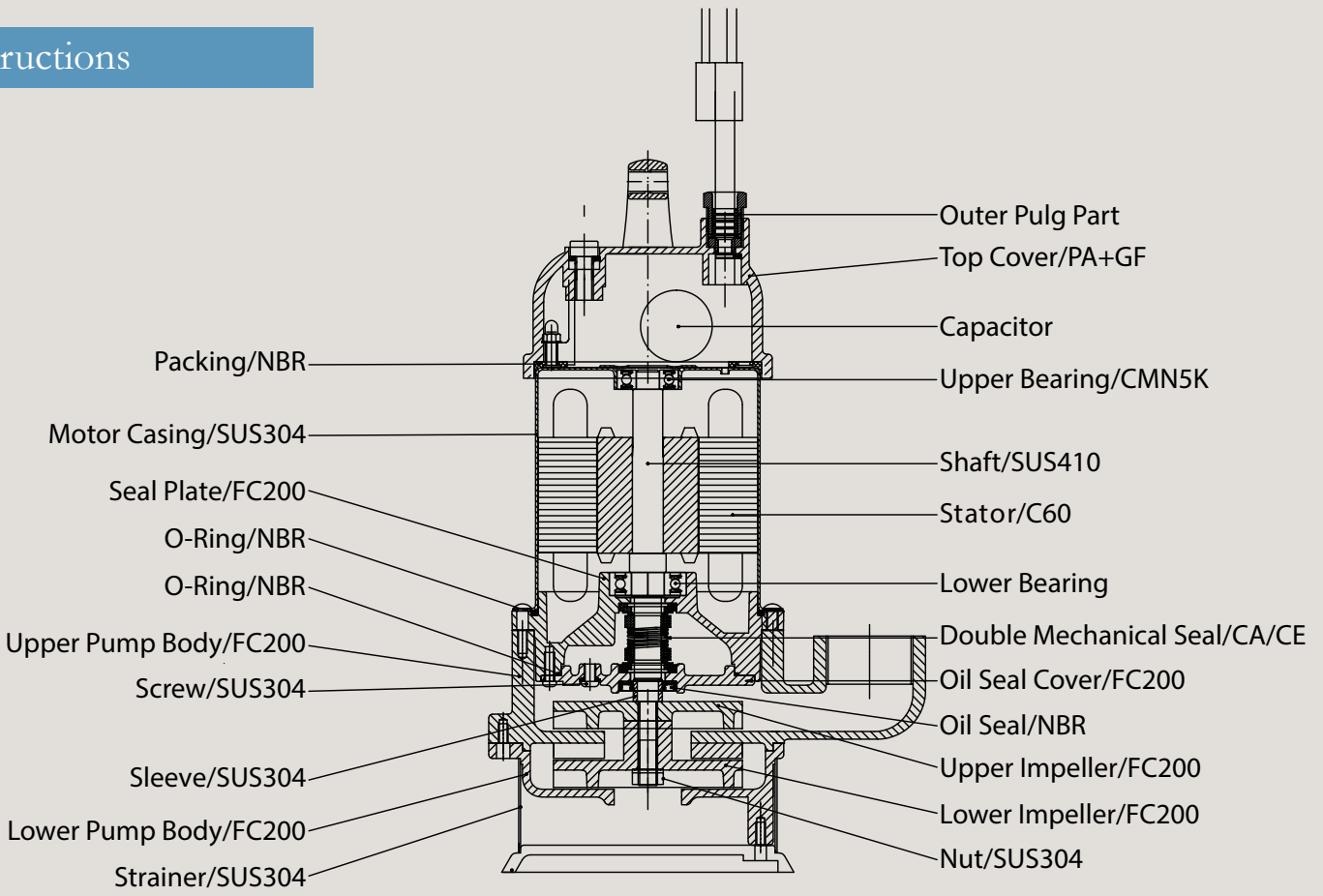
Installation depth: Max. 8m below liquid level

Material: Motor casing - Stainless steel / Pump body - Cast iron

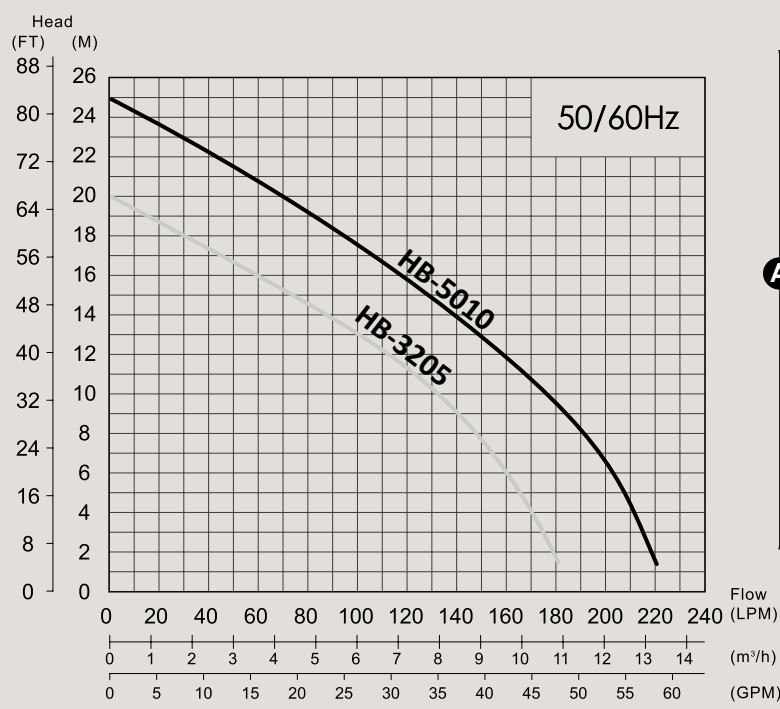
Application

- Lawn and garden irrigation
- Emptying of tanks or reservoirs
- Emergency draining in flooded areas
- Emptying of drains, rain water tanks or domestic wastewater
- Emptying of wells and tanks in industrial and ecological applications

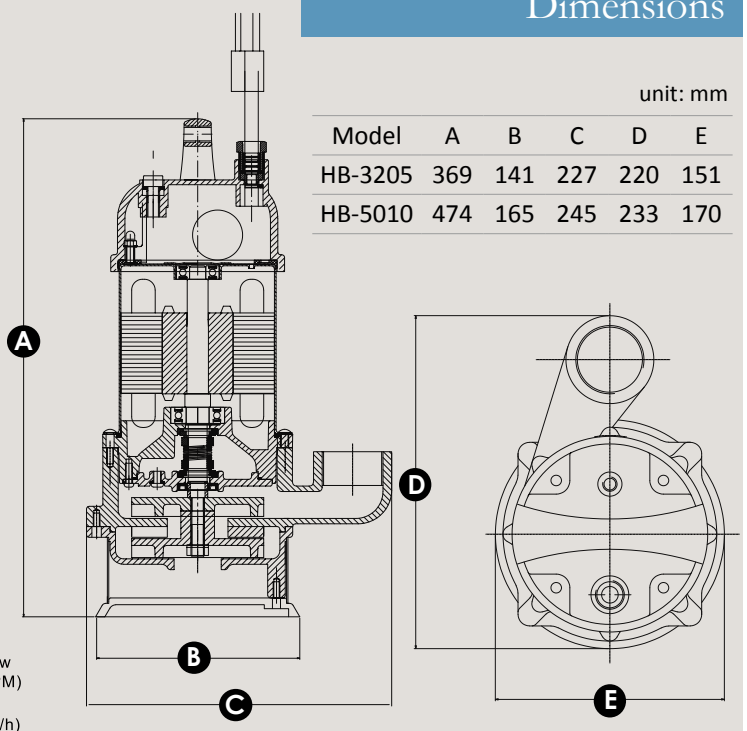
Constructions



Performance Curve



Dimensions



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			3M	6M	9M	12M	15M			
HB-3205	1/2	400	32	1-1/4"	8	180	175	160	140	115	75	20	227 x 141 x 369	16
HB-5010	1	750	50	2"	8	220	215	200	185	160	130	25	245 x 165 x 474	17



Wastewater

KNB supplies premium wastewater products for all relevant applications in municipal, private and industrial applications.

Our product range includes sewage and grinder pumps suitable for your every need. If you are looking for a strong and experienced supplier of wastewater products, look no further.

These pumps are made of resistant materials, such as cast iron and stainless steel. These materials ensure a proper operation.

Increasing urbanisation along with the demand for uncompromised comfort makes wastewater a key area to focus on for every professionally engaged planner, and KNB is there to help throughout the process.





Pump Body Design



Product Features

- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Robust construction.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 760 LPM (46m³/h)

Max. head: 16m

Max. particle size: 40mm

PH values: 6 to 8

Power: 1/5HP to 2HP/ 150W to 1500W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

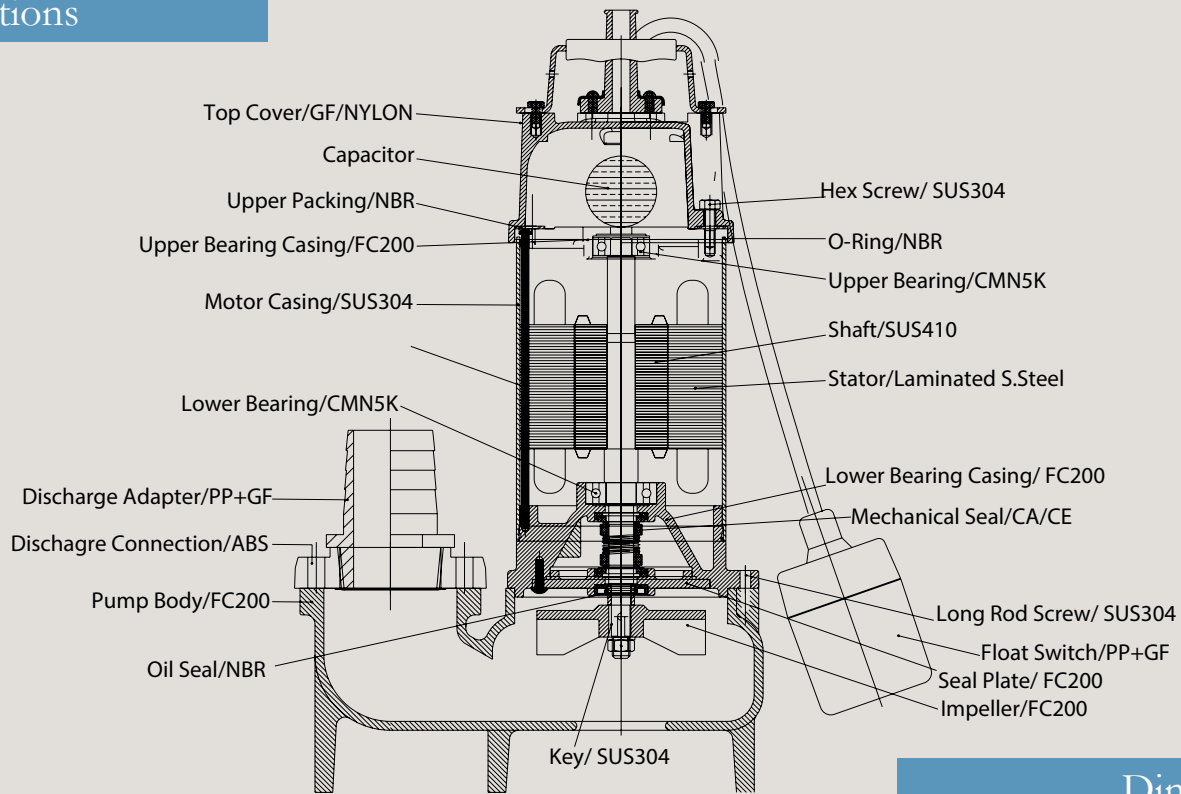
Installation depth: Max. 8m below liquid level

Material: Motor casing - Stainless steel / Pump body - Cast iron

Applications

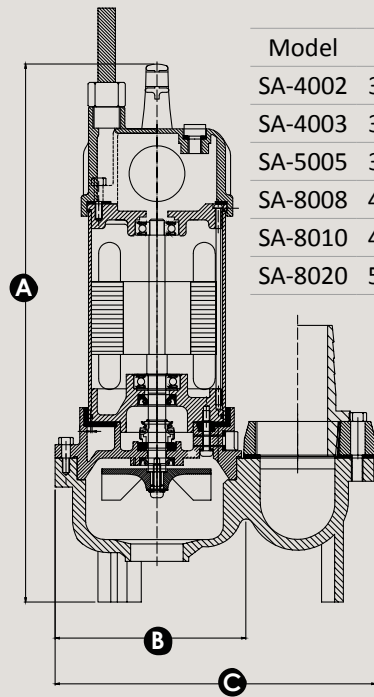
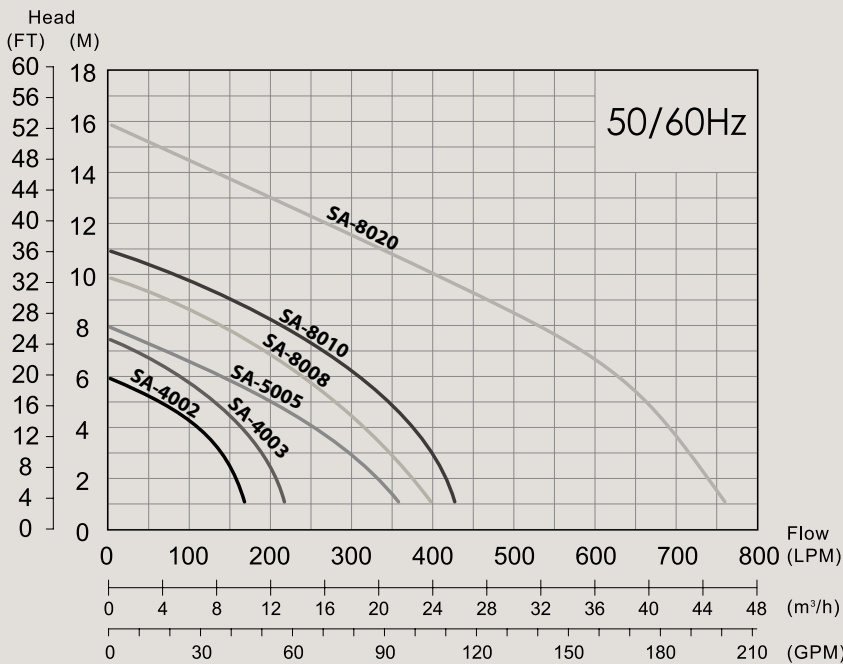
- Municipal wastewater
- Wastewater with content of fibres
- Draining of septic tanks, sumps and wastewater discharge tanks
- Drainage and groundwater
- Domestic wastewater
- Industrial wastewater
- Process and cooling water
- Emptying of tanks or reservoirs
- Emergency draining in flooded areas

Constructions



Dimensions

Performance Curve



unit: mm

Model	A	B	C
SA-4002	370	131	221
SA-4003	370	135	221
SA-5005	392	137	232
SA-8008	441	152	282
SA-8010	441	152	282
SA-8020	547	200	311

Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			1.5M	3M	4.5M	6M	7.5M			
SA-4002	1/5	150	40	1-1/2"	27	170	168	150	90	-	-	6	221 x 131 x 370	8
SA-4003	1/3	250	40	1-1/2"	27	220	215	190	150	90	-	7.5	221 x 135 x 370	9
SA-5005	1/2	400	50	2"	35	360	350	300	230	130	30	8	232 x 137 x 392	11
							1.5M	3M	6M	9M	12M			
SA-8008	3/4	550	80	3"	35	400	395	350	240	80	-	10	282 x 152 x 441	17
SA-8010	1	750	80	3"	37	430	420	395	315	150	-	11	282 x 152 x 441	18
SA-8020	2	1500	80	3"	40	760	750	715	630	470	275	16	311 x 200 x 547	31



Vortex impeller Design



Slide kits are easier to remove and re-install



Product Features

- 2-pole motor design with strong torque.
- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Double mechanical seal design in oil chamber provides strong and reliable shaft sealing.
- Robust construction.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 1100 LPM (66m³/h)

Max. head: 22m

Max. particle size: 55mm

PH values: 6 to 8

Power: 1HP to 5HP/ 0.75kW to 3.7kW

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

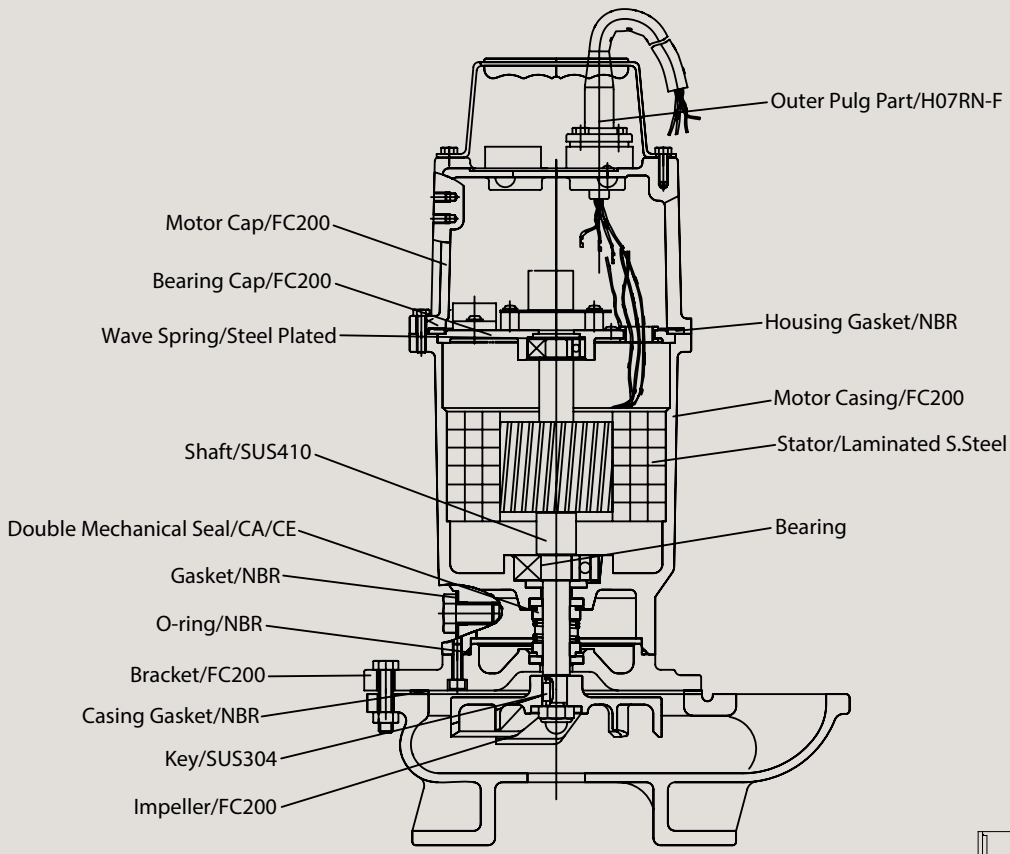
Installation depth: Max. 8m below liquid level

Material: Cast iron

Applications

- Municipal wastewater
- Wastewater with content of fibres
- Draining of septic tanks, sumps and wastewater discharge tanks
- Drainage and groundwater
- Domestic wastewater
- Industrial wastewater
- Process and cooling water
- Emptying of tanks or reservoirs
- Emergency draining in flooded areas

Constructions

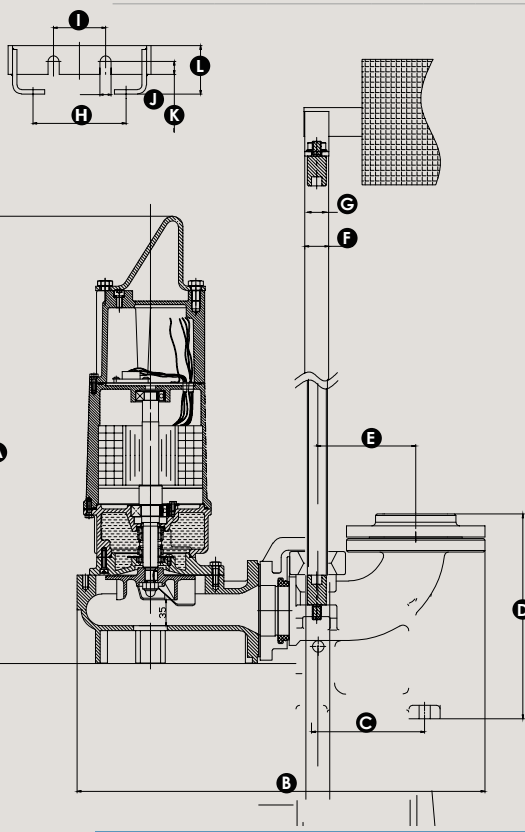


Dimensions

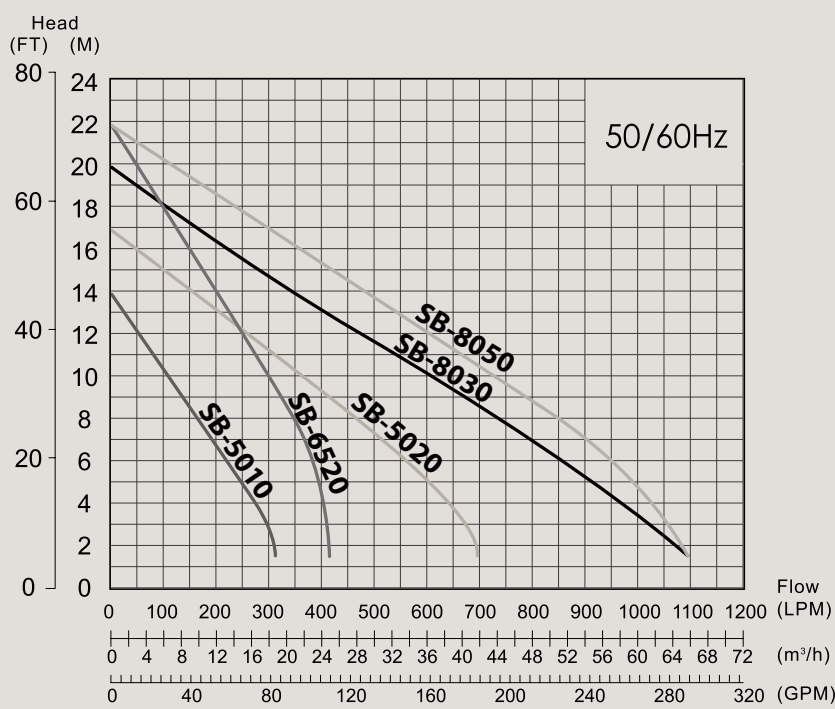
unit: mm

Model	A	B	C	D	E	F
SB-5010	400	271				
SB-5020	625	521	152	275	133	32
SB-6520	675	548	152	275	133	32
SB-8030	770	583	152	275	133	32
SB-8050	770	583	152	275	133	32

Model	G	H	I	J	K	L
SB-5010						
SB-5020	25.4	125	70	15	17.5	65
SB-6520	25.4	125	70	15	17.5	65
SB-8030	25.4	125	70	15	17.5	65
SB-8050	25.4	125	70	15	17.5	65



Performance Curve



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow(LPM)	Flow Head (LPM)					Max Head(M)	Dimension L x W x H(mm)	Weight Kg
	HP	kW	mm	inch			3M	6M	9M	12M	15M			
SB-5010	1	0.75	50	2"	33	320	300	230	140	55	-	14	271 x 218 x 400	21
SB-5020	2	1.5	50	2"	31	420	415	390	330	250	170	22	271 x 218 x 443	30
SB-6520	2	1.5	65	2.5"	45	700	680	560	420	250	90	17	398 x 244 x 600	46
SB-8030	3	2.2	80	3"	50	1100	1020	860	680	480	280	20	449 x 281 x 723	64
SB-8050	5	3.7	80	3"	55	1100	1060	960	800	600	420	22	449 x 281 x 723	68



Vortex impeller Design



Slide kits are easier to remove and re-install



Product Features

- Whole pump is made of stainless steel SUS304. SUS316 is optional.
- Vortex impeller with high pumping efficiency and reduce risk of jamming or clogging.
- Mechanical seal design in oil chamber provides strong and reliable shaft sealing.
- Can be used in pumping chemical liquid.
- Robust construction.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 1200 LPM (72m³/h)

Max. head: 23m

Max. particle size: 50mm

PH values: 6 to 8

Power: 1/2HP to 7.5HP/ 0.37kW to 5.5kW

Liquid Temp.: 0°C to 60°C/ +32°F to +140 °F

Degree of protection: IP 68

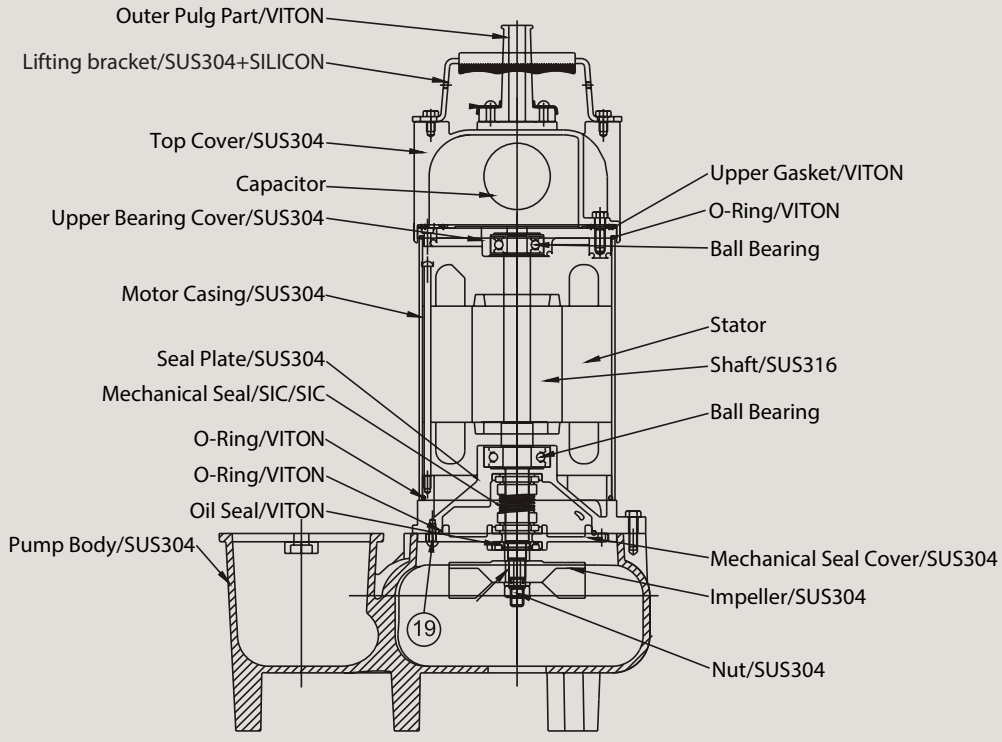
Installation depth: Max. 8m below liquid level

Material: Stainless steel

Applications

- Municipal wastewater
- Wastewater with content of fibres
- Draining of septic tanks, sumps and wastewater discharge tanks
- Drainage and groundwater
- Domestic wastewater
- Industrial wastewater
- Process and cooling water
- Emptying of tanks or reservoirs
- Emergency draining in flooded areas

Constructions



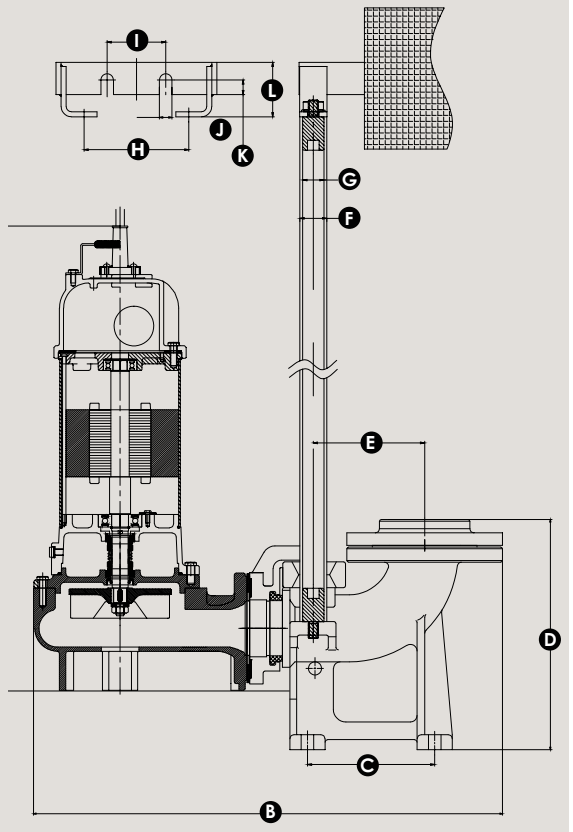
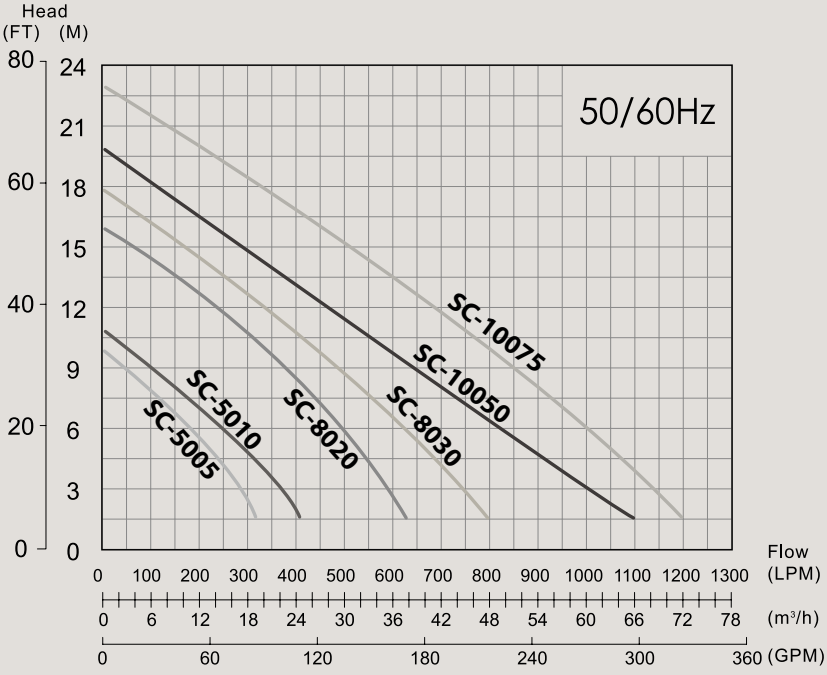
Dimensions

unit: mm

Model	A	B	C	D	E	F
SC-5005	355	216				
SC-5010	512	489	152	275	133	32
SC-8020	588	557	152	275	133	32
SC-8030	626	560	230	366	202	32
SC-10050	741	680	230	366	202	32
SC-10075	771	680	230 <td 366	202	32	

Model	G	H	I	J	K	L
SC-5005						
SC-5010	25.4	125	70	15	17.5	65
SC-8020	25.4	125	70	15	17.5	65
SC-8030	25.4	125	70	15	17.5	65
SC-10050	25.4	125	70	15	17.5	65
SC-10075	25.4	125	70	15	17.5	65

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow(LPM)	Flow Head (LPM)					Max Head(M)	Dimension L x W x H(mm)	Weight Kg
	HP	KW	mm	inch			3M	6M	9M	12M	15M			
SC-5005	1/2	0.4	50	2"	30	320	290	180	50	-	-	10	216 x 127 x 355	13
SC-5010	1	0.75	50	2"	30	410	370	250	100	-	-	11	316 x 187 x 441	17
SC-8020	2	1.5	80	3"	35	630	590	490	380	240	55	16	385 x 255 x 517	32
							3M	5M	10M	15M	20M			
SC-8030	3	2.2	80	3"	35	800	750	670	440	180	-	18	385 x 255 x 555	33
SC-10050	5	3.7	100	4"	45	1100	1000	880	590	290	-	20	486 x 290 x 629	50
SC-10075	7.5	5.5	100	4"	50	1200	1150	1050	800	520	190	23	419 x 290 x 659	55



Impeller Design



Slide kits are easier to remove and re-install



Product Features

- 4-pole motor design.
- Double mechanical seal design in oil chamber provides strong and reliable shaft sealing.
- Robust construction.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 2300 LPM (138m³/h)

Max. head: 21m

Max. particle size: 75mm

PH values: 6 to 8

Power: 2HP to 10HP/ 1.5kW to 7.5kW

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

Installation depth: Max. 8m below liquid level

Material: Cast iron

Applications

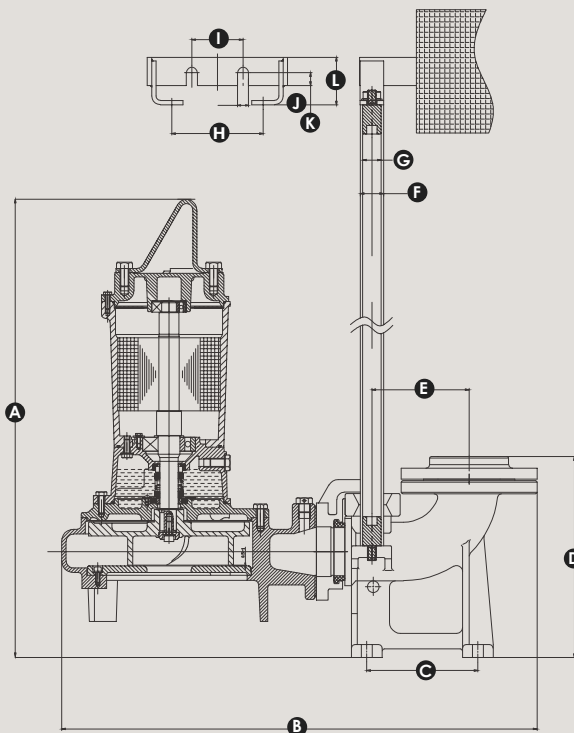
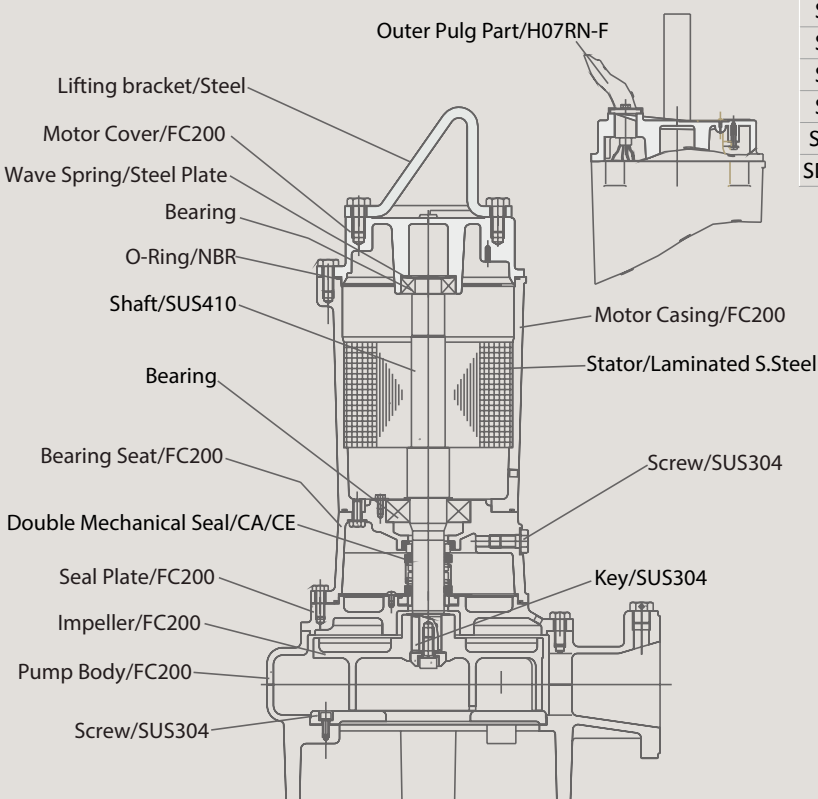
- Municipal wastewater
- Wastewater with content of fibres
- Draining of septic tanks, sumps and wastewater discharge tanks
- Drainage and groundwater
- Domestic wastewater
- Industrial wastewater
- Process and cooling water
- Emptying of tanks or reservoirs
- Emergency draining in flooded areas

Dimensions

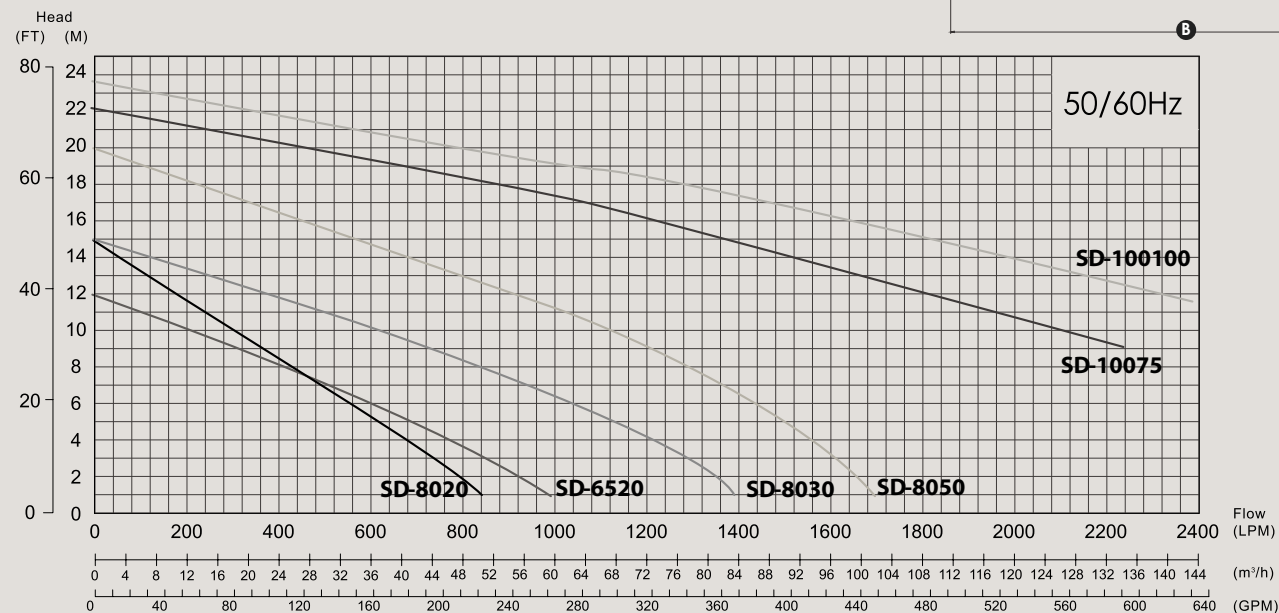
unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L
SD-6520	627	651	152	275	133	32	25.4	125	70	15	17.5	65
SD-8020	634	670	152	275	133	32	25.4	125	70	15	17.5	65
SD-8030	693	675	152	275	133	32	25.4	125	70	15	17.5	65
SD-8050	723	701	152	275	133	32	25.4	125	70	15	17.5	65
SD-10075	874	750	230	366	202	32	25.4	125	70	15	17.5	65
SD-100100	874	750	230	366	202	32	25.4	125	70	15	17.5	65

Constructions



Performance Curve



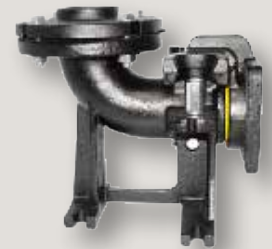
Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow(LPM)	Flow Head (LPM)					Max Head(M)	Dimension L x W x H(mm)	Weight Kg
	HP	kW	mm	inch			3M	6M	9M	12M	15M			
SD-6520	2	1.5	65	2.5"	40	850	750	570	370	180	-	12	503 x 349 x 577	58
SD-8020	2	1.5	80	3"	50	1000	850	620	300	-	-	15	537 x 368 x 599	62
SD-8030	3	2.2	80	3"	50	1400	1300	1030	720	370	-	15	542 x 373 x 658	75
SD-8050	5	3.7	80	3"	48	1700	1620	1450	1210	920	570	18	567 x 399 x 688	92
SD-10075	7.5	5.5	100	4"	75	2250	2200	2070	1850	1420	960	19	653 x 400 x 824	121
SD-100100	10	7.5	100	4"	75	2300	2300	2280	2250	2050	1500	21	653 x 400 x 824	125



2~5 HP 7.5~15HP

Impeller Design



Slide kits are easier to remove and re-install



Product Features

- Single-channel impeller with long vane, thus reducing the risk of jamming or clogging, or vortex impeller with high pumping efficiency.
- Double mechanical seal design in oil chamber provides strong and reliable shaft sealing.
- Robust construction.
- Supplied with cutter impeller for cutter pump applications.

Technical Data

Max. flow rate: 3000 LPM (180m³/h)

Max. head: 32m

Max. particle size: 65mm

PH values: 6 to 8

Power: 2HP to 15HP/ 1.5kW to 11kW

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

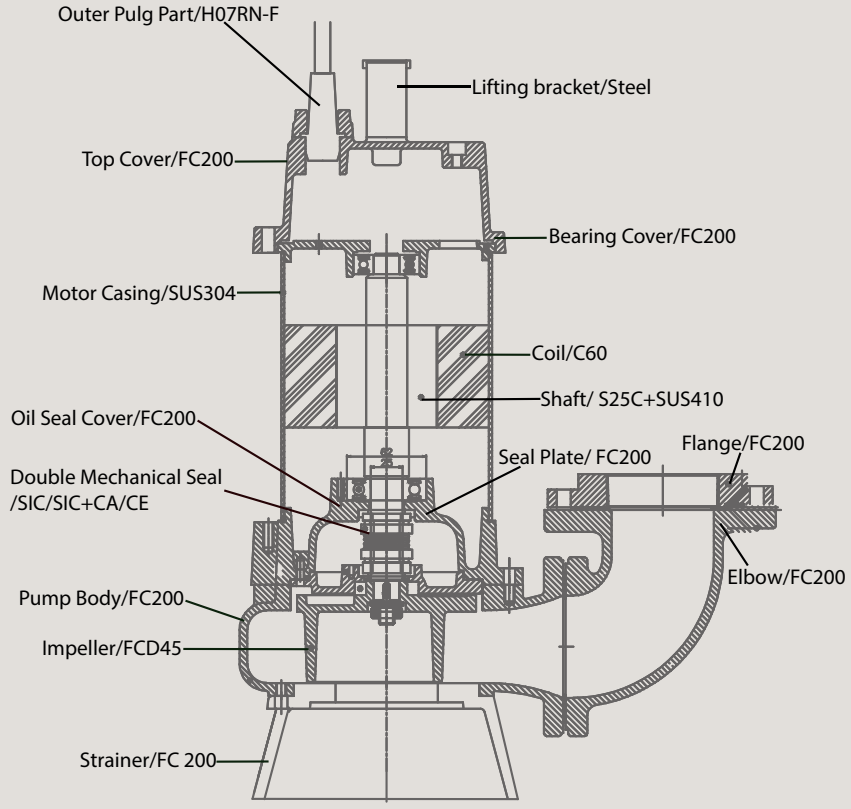
Installation depth: Max. 8m below liquid level

Material: Motor casing - Stainless steel / Pump body - Cast iron

Applications

- Municipal wastewater
- Wastewater with content of fibres
- Draining of septic tanks, sumps and wastewater discharge tanks
- Drainage and groundwater
- Domestic wastewater
- Industrial wastewater
- Process and cooling water
- Emptying of tanks or reservoirs
- Emergency draining in flooded areas

Constructions

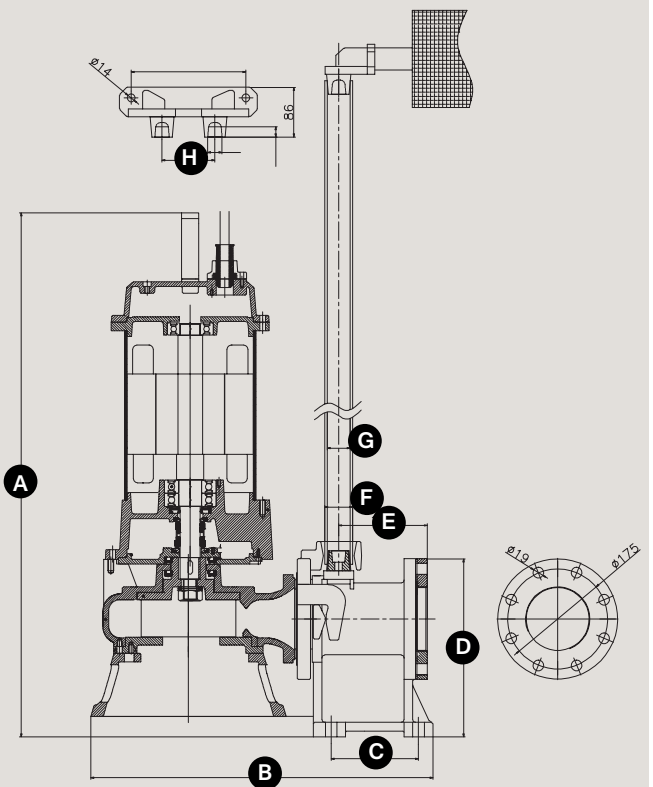
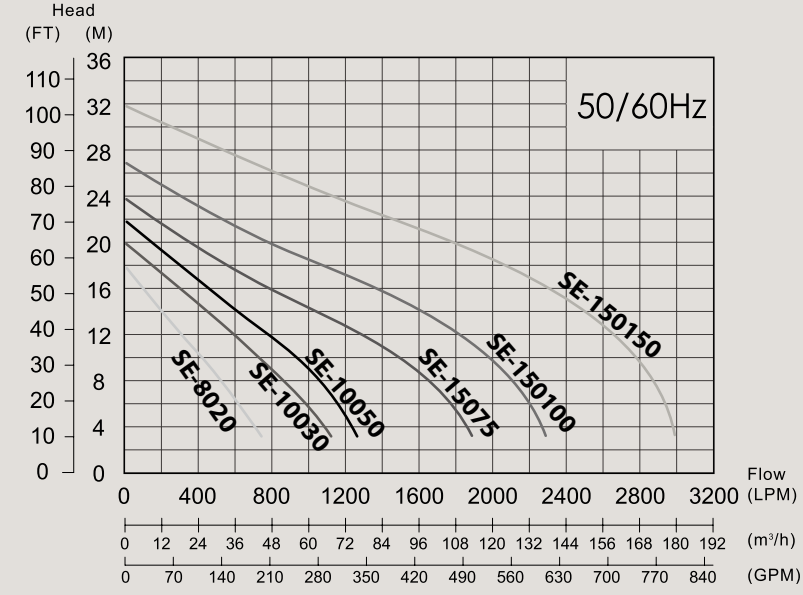


Dimensions

unit: mm

Outlet	Model	A	B	C	D	E	F	G	H
3"	SE-8020	673	631	230	366	202	32	25.4	125
	SE-10030	693	640	230	366	202	32	25.4	125
4"	SE-10050	740	641	230	366	202	32	25.4	125
	SE-15075	825	558	152	310	154	48	40	92
4"	SE-150100	870	561	152	310	154	48	40	92
	SE-150150	912	596	152	310	154	48	40	92
	SE-15075	825	558	152	331	280	48	40	92
6"	SE-150100	870	561	152	331	280	48	40	92
	SE-150150	912	596	152	331	280	48	40	92

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow LPM	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	KW	mm	inch			3M	6M	9M	12M	15M			
SE-8020	2	1.5	80/100	3" / 4"	40	800	750	620	480	310	150	18	400 x 240 x 545	37
SE-10030	3	2.2	80/100	3" / 4"	40	1200	1130	990	800	590	380	20	425 x 220 x 615	55
SE-10050	5	3.7	80/100	3" / 4"	45	1300	1270	1170	1000	790	530	22	425 x 220 x 615	57
							5M	10M	15M	20M	25M			
SE-15075	7.5	5.5	100/150	4" / 6"	50	1900	1840	1500	900	360	-	24	485 x 300 x 735	99
SE-150100	10	7.5	100/150	4" / 6"	65	2300	2260	2000	1500	800	200	27	485 x 300 x 840	109
SE-150150	15	11	100/150	4" / 6"	65	3000	2960	2800	2400	1800	980	32	585 x 340 x 875	149

Product Features

- Enhanced reliability.
- Efficient grinding of solids down to even smaller pieces.
- Improved discharge pressure over longer distances.
- Watertight cable connection is hermetically sealed, ensuring that liquid cannot penetrate through the cable into the motor.
- Double mechanical seals to ensure longer lifetime.

Technical Data

Max. flow rate: 210 LPM (12.6m³/h)

Max. head: 30m

PH values: 6 to 8

Power: 1.5HP to 3HP/ 1.1kW to 2.2kW

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

Installation depth: Max. 8m below liquid level

Material: Motor casing - Stainless steel / Pump body - Cast iron

Applications

- Industrial wastewater containing fibres
- Domestic and municipal wastewater



Cutter Impeller Design

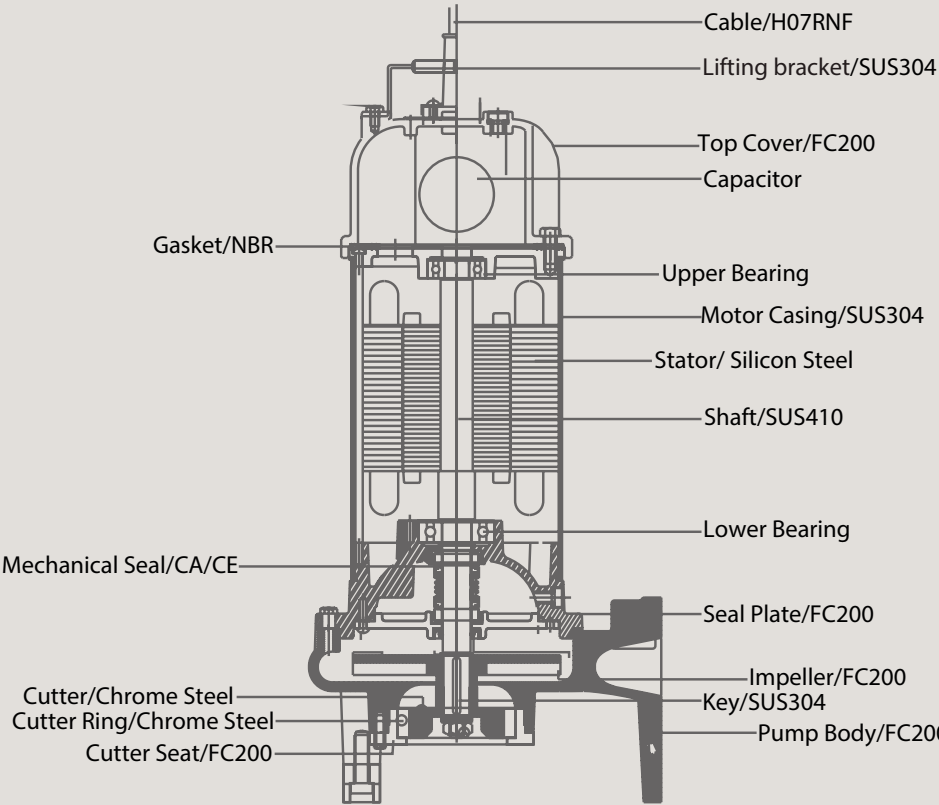


2" outlet



1-1/4" outlet

Constructions



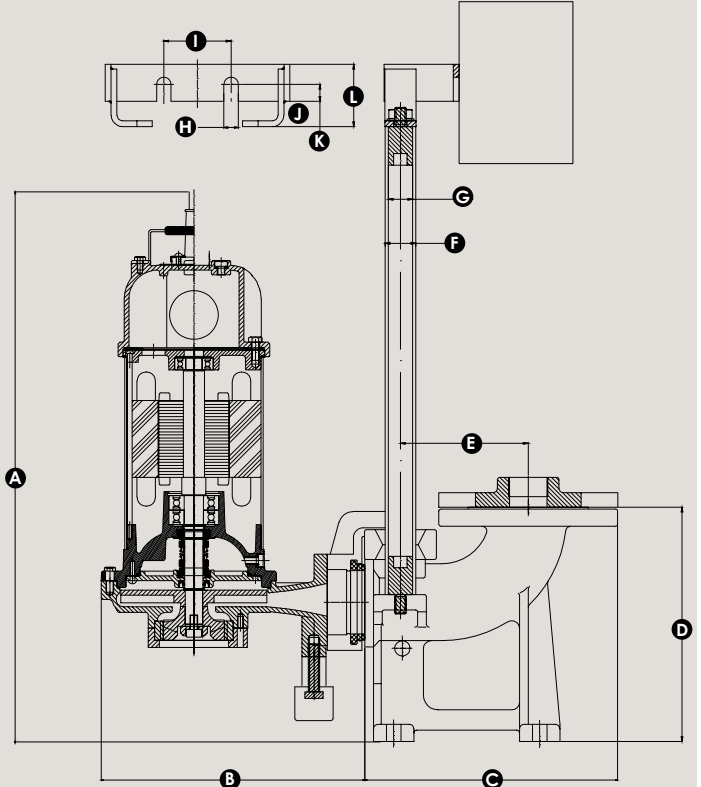
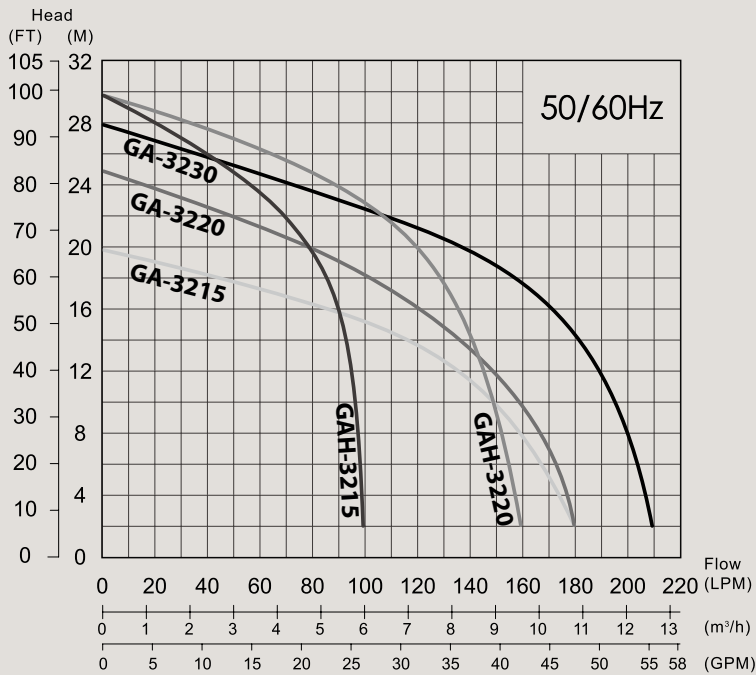
Dimensions

unit: mm

Model	A	B	C	D	E	F
GA-3215	572	275	263	275	133	32
GA-3220	597	275	263	275	133	32
GA-3230	596	280	263	275	133	32
GAH-3215	572	275	263	275	133	32
GAH-3220	574	279	263	275	133	32

Model	G	H	I	J	K	L
GA-3215	25.4	125	70	15	17.5	65
GA-3220	25.4	125	70	15	17.5	65
GA-3230	25.4	125	70	15	17.5	65
GAH-3215	25.4	125	70	15	17.5	65
GAH-3220	25.4	125	70	15	17.5	65

Performance Curve



Specifications

Model	Output		Outlet		Max Flow(LPM)	Flow Head (LPM)					Max Head(M)	Dimension	Weight Kg
	HP	kW	mm	inch		5M	10M	15M	20M	25M		L x W x H(mm)	
GA-3215	1.5	1.1	32	1-1/4"	180	170	150	105	-	-	20	237 x 198 x 520	30
GA-3220	2	1.5	32	1-1/4"	180	175	160	130	80	-	25	237 x 198 x 540	32
GA-3230	3	2.2	32	1-1/4"	210	205	195	180	140	55	28	237 x 198 x 540	35
GAH-3215	1.5	1.1	32	1-1/4"	100	98	95	90	80	50	30	246 x 172 x 539	30
GAH-3220	2	1.5	32	1-1/4"	160	155	150	140	120	80	30	250 x 194 x 541	32

Product Features

- Whole pump is made of cast iron.
- Enhanced reliability.
- Efficient grinding of solids down to even smaller pieces.
- Improved discharge pressure over longer distances.
- Watertight cable connection is hermetically sealed, ensuring that liquid cannot penetrate through the cable into the motor.
- Double mechanical seals to ensure longer lifetime.

Technical Data

Max. flow rate: 360 LPM (21.6m³/h)

Max. head: 50m

PH values: 6 to 8

Power: 2HP to 7.5HP/ 1.5kW to 5.5kW

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

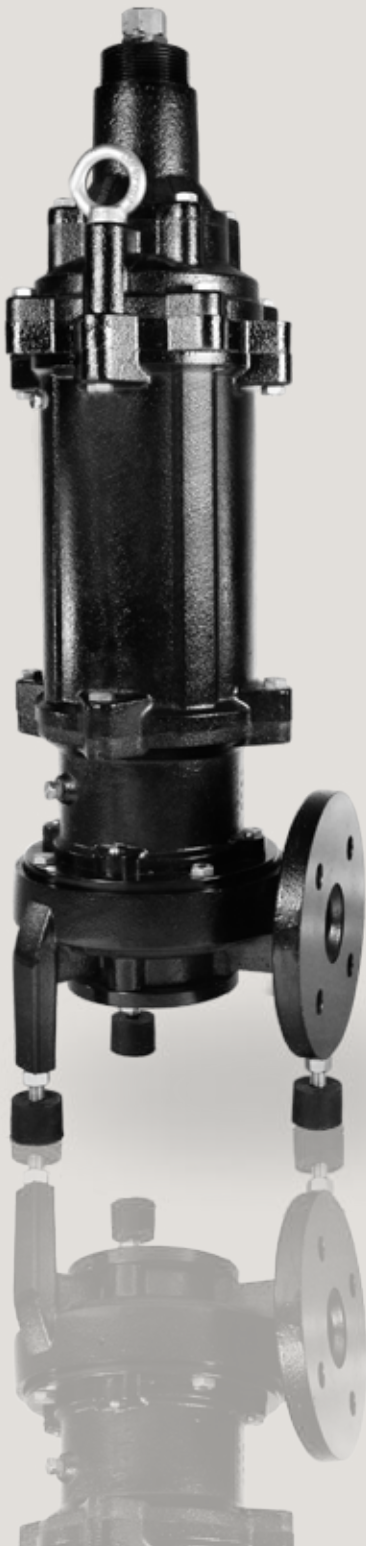
Degree of protection: IP 68

Installation depth: Max. 8m below liquid level

Material: Cast iron

Applications

- Industrial wastewater containing fibres
- Domestic and municipal wastewater



Cutter Impeller Design

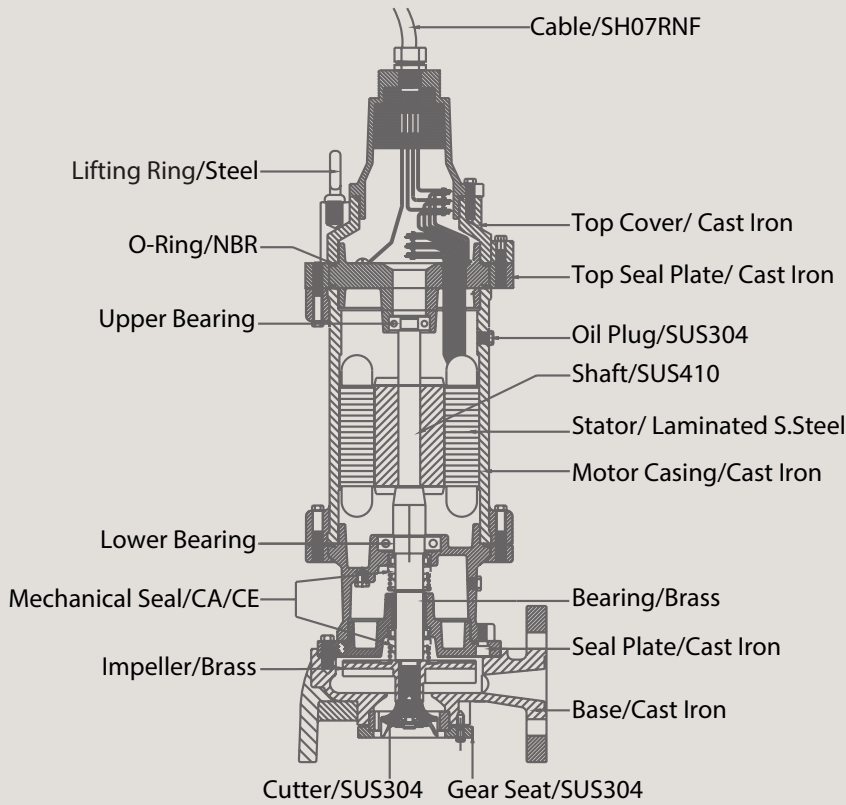


2" outlet



1-1/4" outlet

Constructions



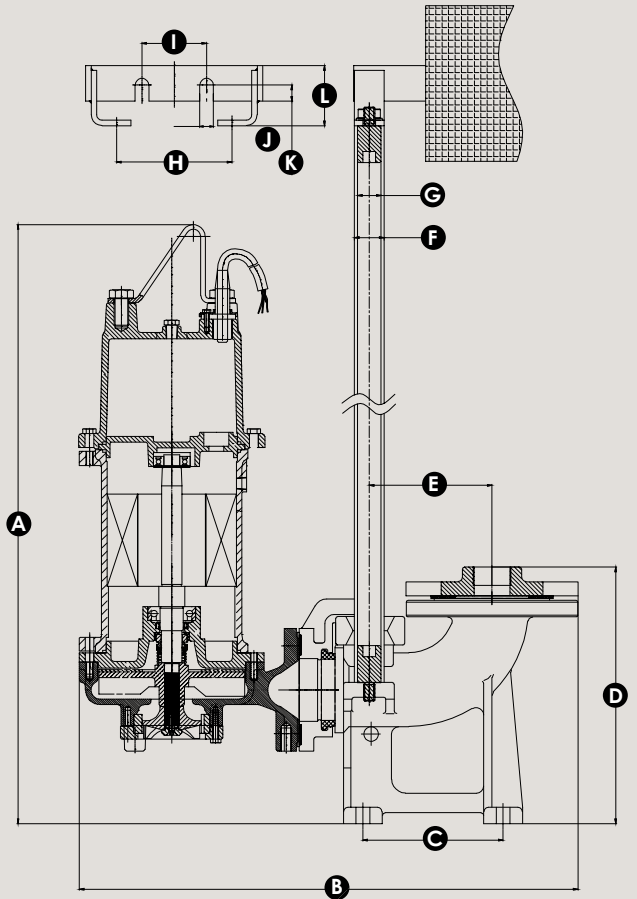
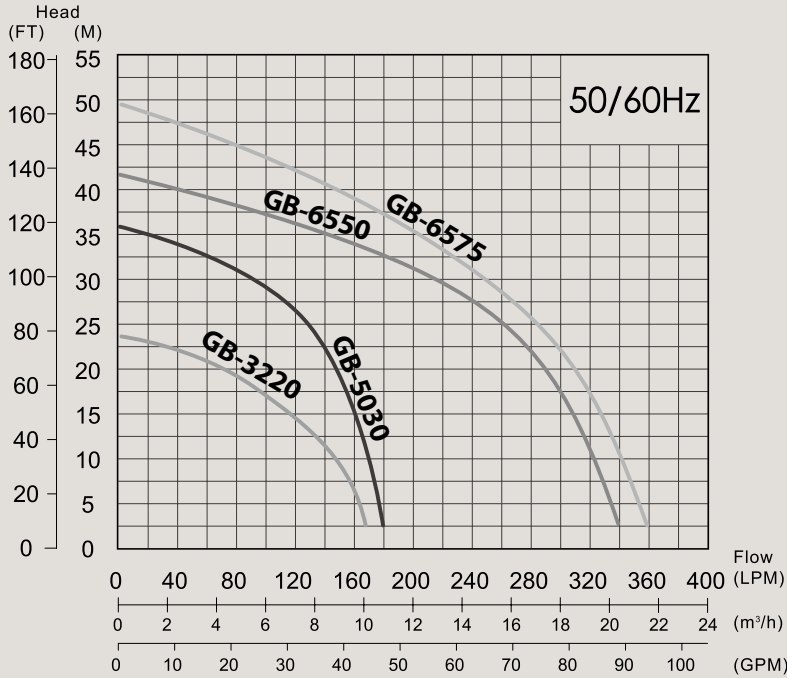
Dimensions

unit: mm

Model	A	B	C	D	E	F
GB-3220	664	540	152	275	133	32
GB-5030	709	540	152	275	133	32
GB-6550	970	600	152	275	133	32
GB-6575	970	600	152	275	133	32

Model	G	H	I	J	K	L
GB-3220	25.4	125	70	15	17.5	65
GB-5030	25.4	125	70	15	17.5	65
GB-6550	25.4	125	70	15	17.5	65
GB-6575	25.4	125	70	15	17.5	65

Performance Curve



Specifications

Model	Output		Outlet		Max Flow(LPM)	Flow Head (LPM)					Max Head(M)	Dimension L x W x H(mm)	Weight Kg
	HP	kW	mm	inch		5M	10M	15M	30M	40M			
GB-3220	2	1.5	32	1-1/4"	170	165	150	75	-	-	24	259 x 200 x 612	36
GB-5030	3	2.2	50	2"	180	175	170	150	95	-	36	239 x 200 x 620	42
GB-6550	5	3.7	65	2-1/2"	340	335	325	290	220	50	42	306 x 243 x 908	82
GB-6575	7.5	5.5	65	2-1/2"	360	350	340	310	250	150	50	306 x 243 x 908	86



Product Features

- High quality stainless steel materials.
- Robust construction.
- Lightweight and portable.
- IA can pump down to 3 mm water level.
- The motor is cooled by the pumped liquid.
- Nylon+glass fiber Impeller is optional.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 200LPM (12m³/h)

Max. head: 11m

Max. particle size: 7mm

PH values: 6 to 8

Power: 1/2HP / 400W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

Installation depth: Max. 8 m below liquid level

Material: Stainless steel

Applications

- Groundwater lowering
- Drainage of cellars or buildings
- Pumping of domestic wastewater without toilet waste
- Emptying applications, e.g. in pools, tanks and vessels
- Pumping applications within agriculture, the dairy industry, horticulture and the process industry

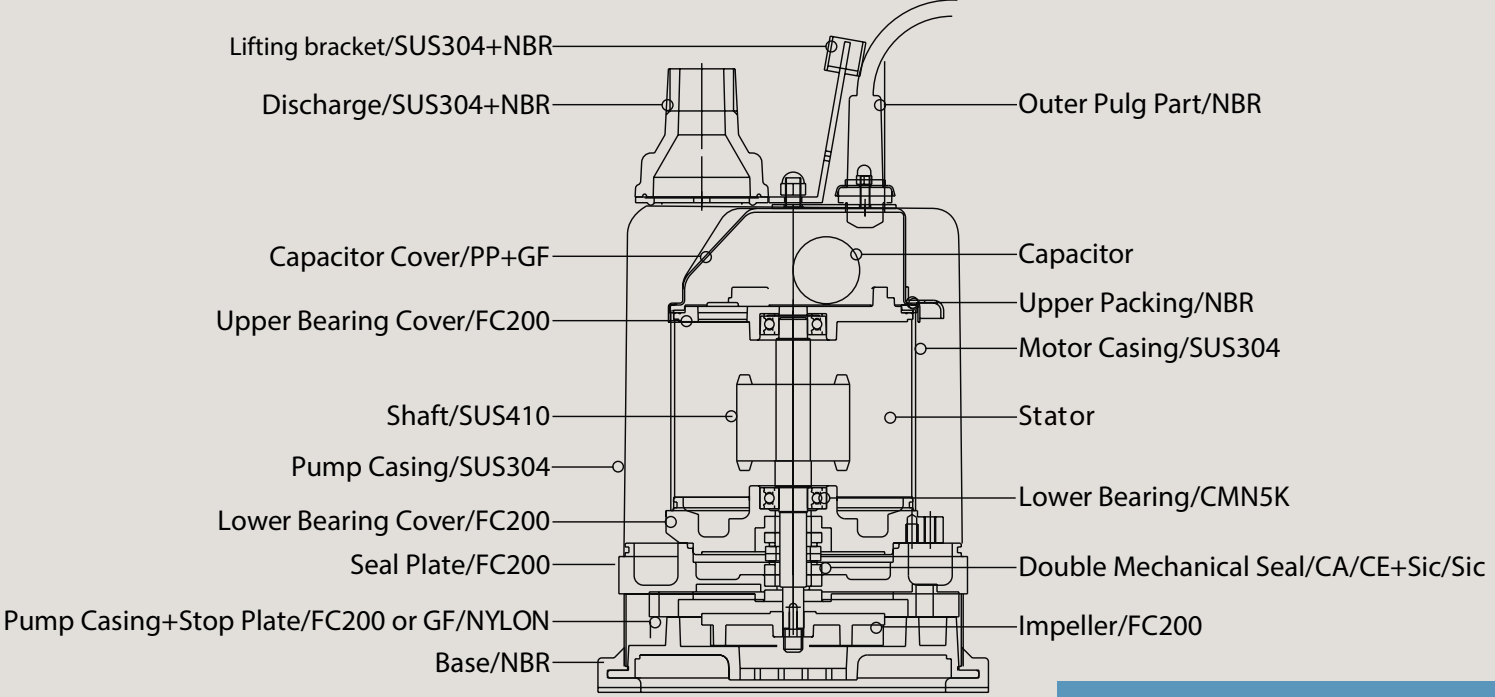


GF/NYLON
Impeller (Optional)



Cast Iron (FC200)
Impeller

Constructions

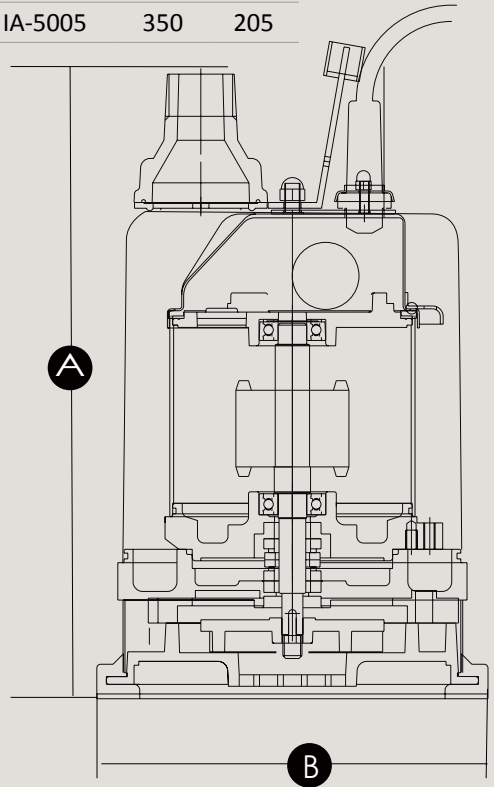
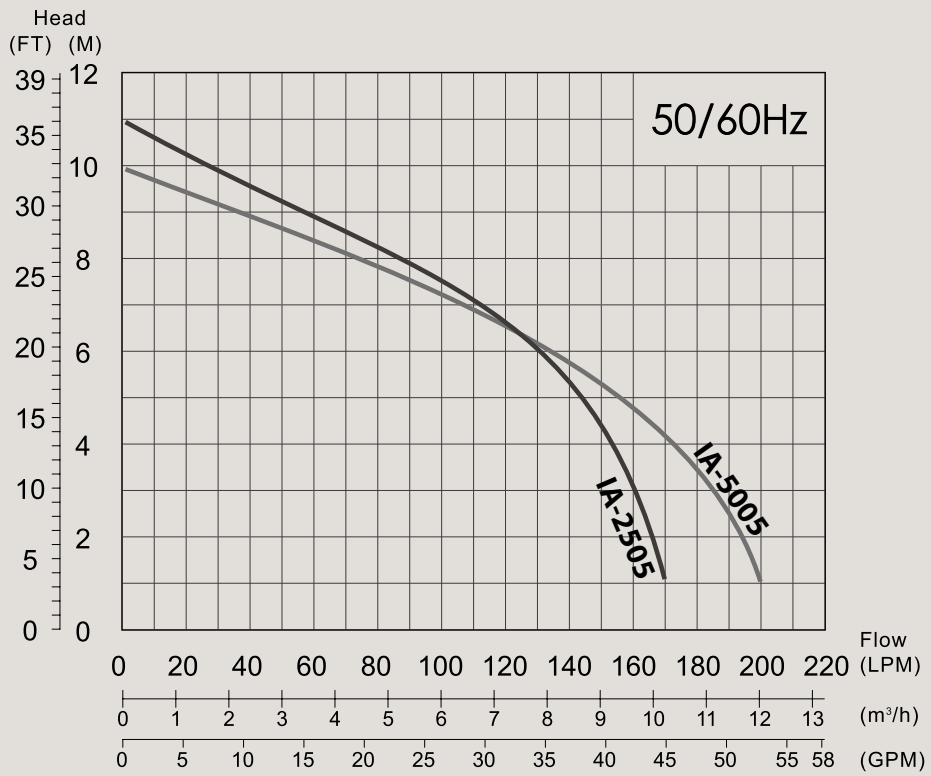


Dimensions

unit: mm

Model	A	B
IA-2505	350	205
IA-5005	350	205

Performance Curve



Specifications

Model No.	Output		Outlet		Pump Passage (mm)	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			1.5M	3M	4.5M	6M	7.5M			
IA-2505	1/2	400	25	1"	7	170	165	160	150	130	100	11	205 x 205 x 350	16
IA-5005	1/2	400	50	2"	7	200	195	185	165	135	90	10	205 x 205 x 350	16



Impeller Design



Product Features

- Entirely made of AISI 304 or AISI316 stainless steel.
- Quality material inside and robust construction.
- Built-in thermal protector.
- Can be used in pumping chemical liquid.
- The motor is cooled by the pumped liquid.
- Supplied with or without float switch.

Technical Data

Max. flow rate: 300LPM (18m³/h)

Max. head: 15m

Max. particle size:10mm

PH values: 6 to 8

Power: 1/3HP to 1HP / 250W to 750W

Liquid Temp.: 0°C to 60°C/ +32°F to +140 °F

Degree of protection: IP 68

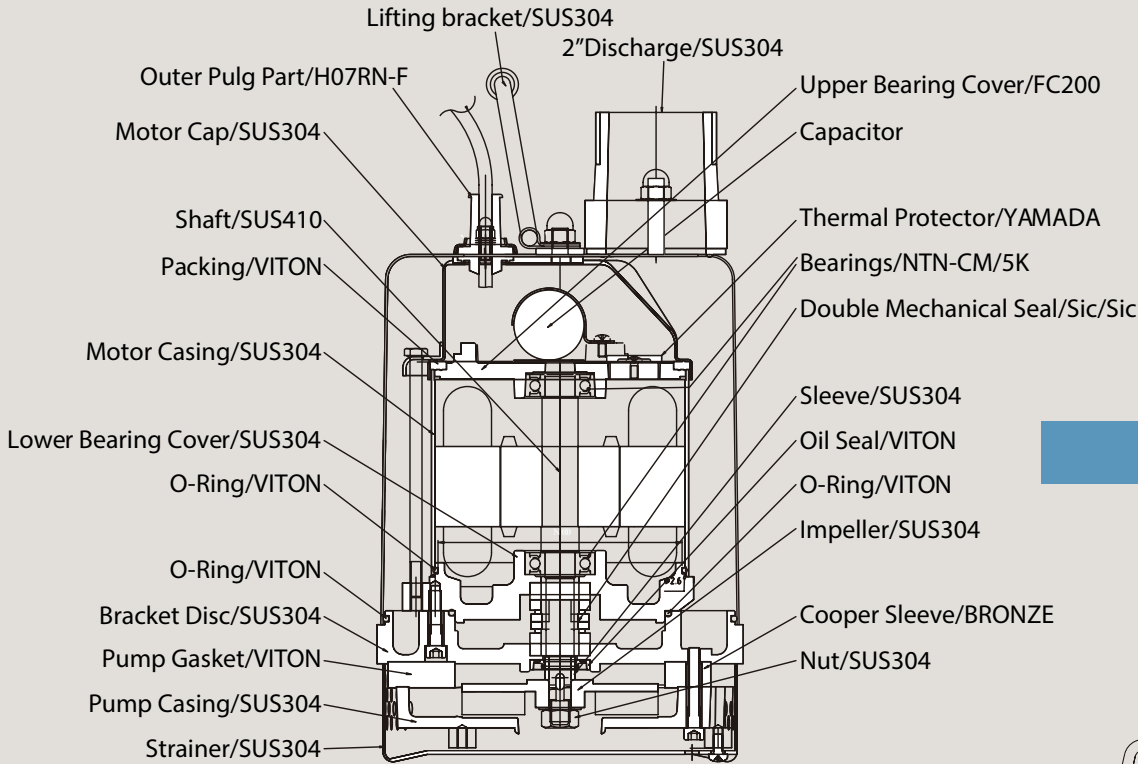
Installation depth: Max. 8 m below liquid level

Material: Stainless steel

Applications

- Groundwater lowering
- Drainage of cellars or buildings
- Pumping of domestic wastewater without toilet waste
- Emptying applications, e.g. in pools, tanks and vessels
- Pumping applications within agriculture, the dairy industry, horticulture and the process industry

Constructions

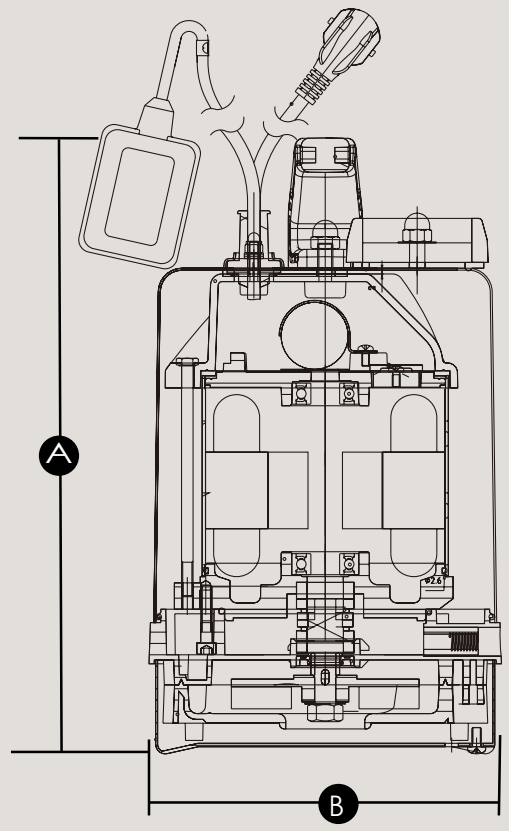
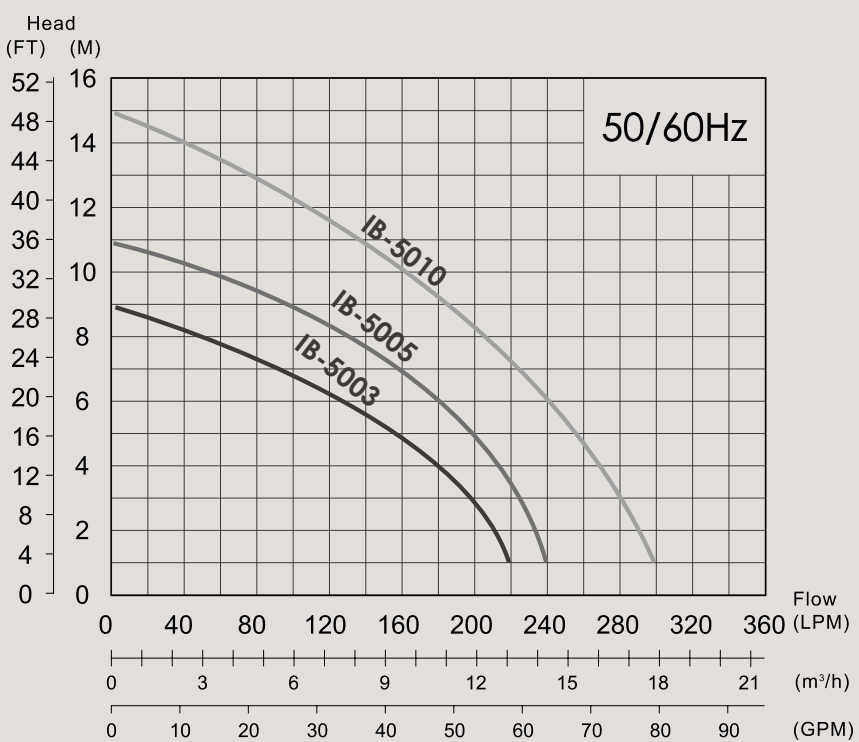


Dimensions

unit: mm

Model	A	B
IB-5003	348	183
IB-5005	348	183
IB-5010	365	183

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage (mm)	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H (mm)	Weight (Kg)
	HP	W	mm	inch			1.5M	3M	6M	9M	12M			
IB-5003	1/3	250	50	2"	7	220	215	197	130	-	-	9	183 x 183 x 348	14
IB-5005	1/2	400	50	2"	10	240	237	225	180	100	-	11	183 x 183 x 348	16
IB-5010	1	750	50	2"	10	300	295	280	240	185	110	15	183 x 183 x 365	20



**GF/NYLON
Impeller (Optional)**



**Cast Iron (FC200)
Impeller**



Product Features

- High quality stainless steel materials.
- Robust construction.
- Built-in thermal protector.
- The motor is cooled by the pumped liquid.
- Supplied with or without float switch.
- Cast iron or Nylon+glass fiber Impeller is optional.

Technical Data

Max. flow rate: 300LPM (18m³/h)

Max. head: 15m

Max. particle size:10mm

PH values: 6 to 8

Power: 1/3HP to 1HP / 250W to 750W

Liquid Temp.: 0°C to 40°C/ +32°F to +104 °F

Degree of protection: IP 68

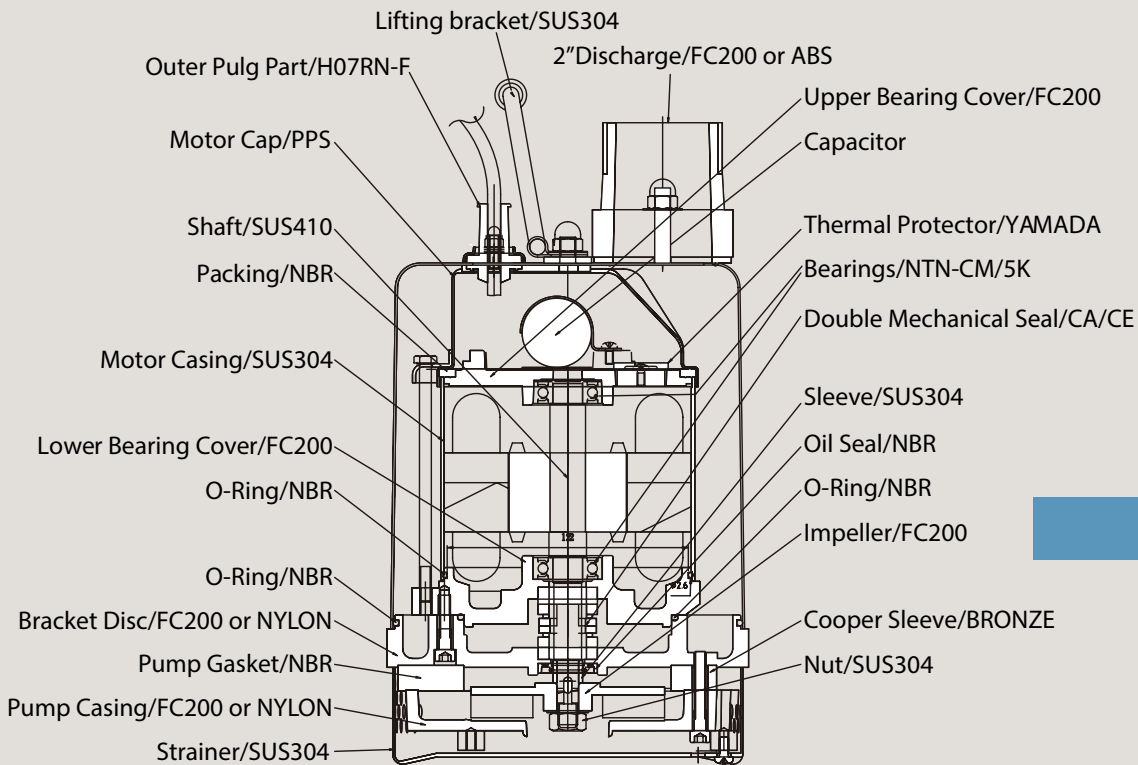
Installation depth: Max. 8 m below liquid level

Material: Pump body - Stainless steel / Impeller: Cast iron

Applications

- Groundwater lowering
- Drainage of cellars or buildings
- Pumping of domestic wastewater without toilet waste
- Emptying applications, e.g. in pools, tanks and vessels
- Pumping applications within agriculture, the dairy industry, horticulture and the process industry

Constructions

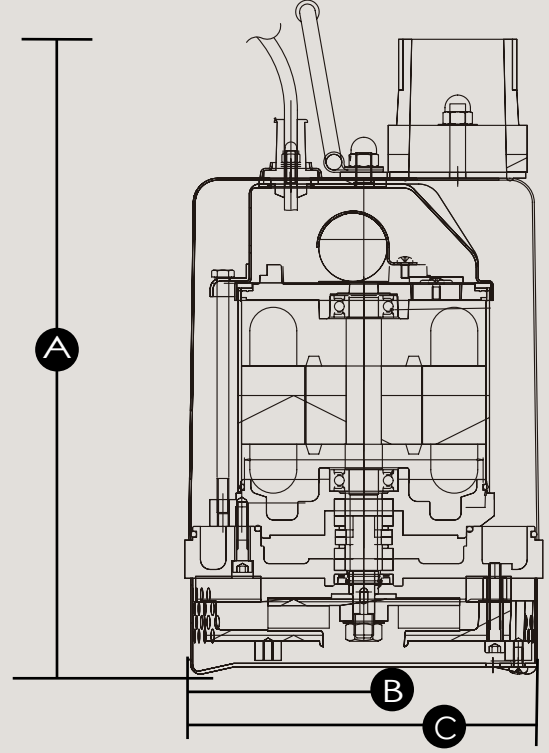
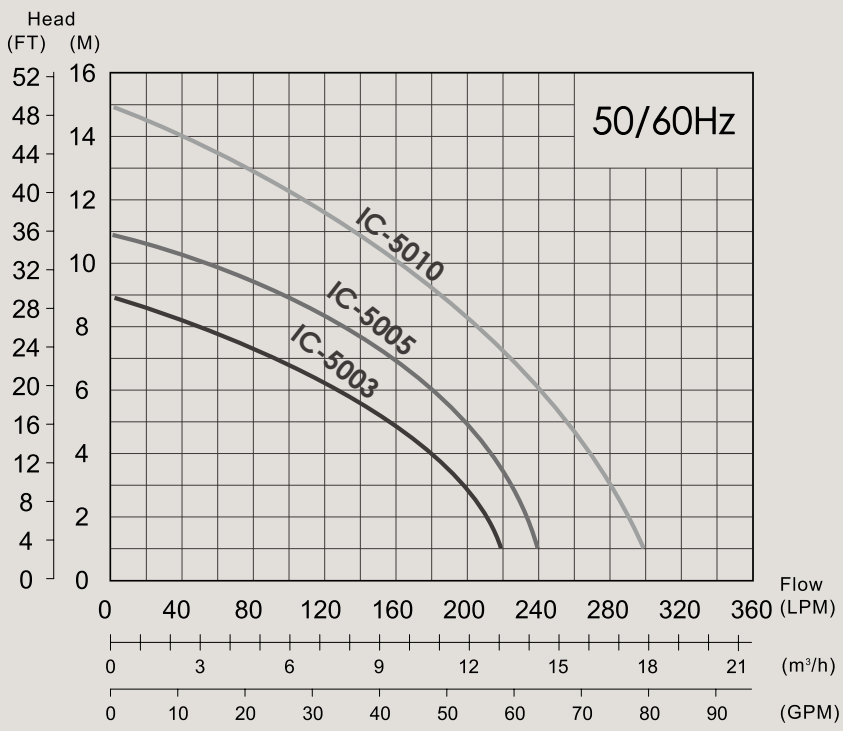


Dimensions

unit: mm

Model	A	B
IC-5003	348	183
IC-5005	348	183
IC-5010	365	183

Performance Curve



Specifications

Model	Output		Outlet		Pump Passage mm	Max Flow (LPM)	Flow Head (LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch			1.5M	3M	6M	9M	12M			
IC-5003	1/3	250	50	2"	7	220	215	197	130	-	-	9	183 x 183 x 348	14
IC-5005	1/2	400	50	2"	10	240	237	225	180	100	-	11	183 x 183 x 348	16
IC-5010	1	750	50	2"	10	300	295	280	240	185	110	15	183 x 183 x 365	20



Product Features

- Robust construction
- Quick Self-priming with higher outlet design
- Stainless steel impeller is optional

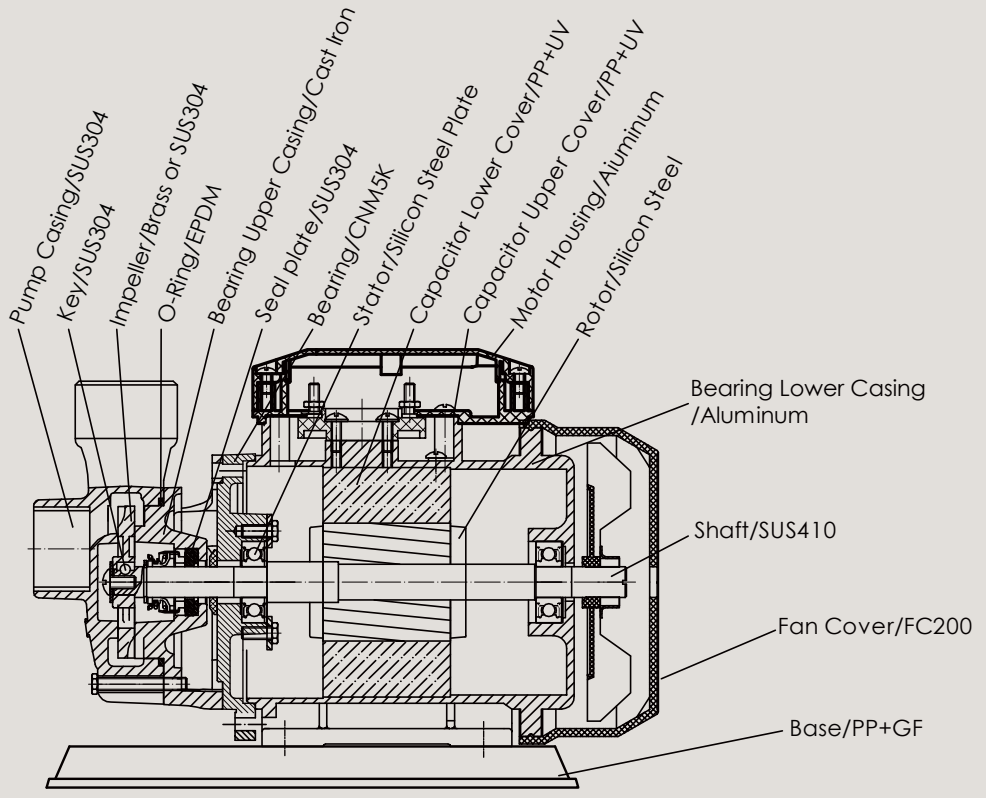
Technical Data

- Max. flow rate: 40LPM (2.4m³/h)
- Max. head: 28m
- PH values: 6 to 8
- Power: 1/4HP / 200W
- Liquid Temp.: 5°C to 60°C / +41°F to +140 °F
- Degree of protection: IP 54
- Material:
 - Motor casing - Aluminum
 - Pump casing - Stainless steel / FC200
 - Impeller - Brass or SUS304

Applications

- Water distribution
- Pressure boosting
- Irrigation
- Washing
- Rain water collection
- Swimming pools
- Fountains

Constructions

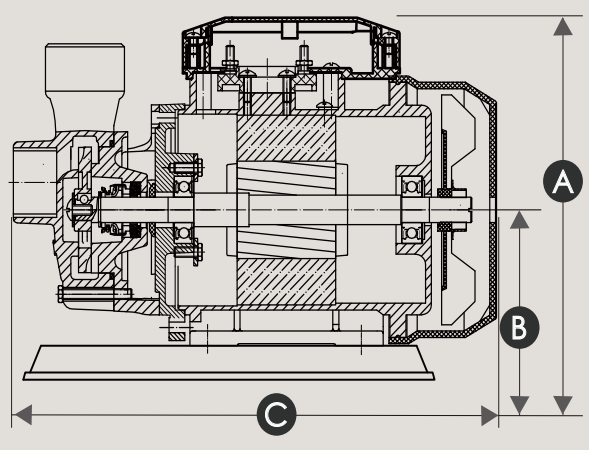
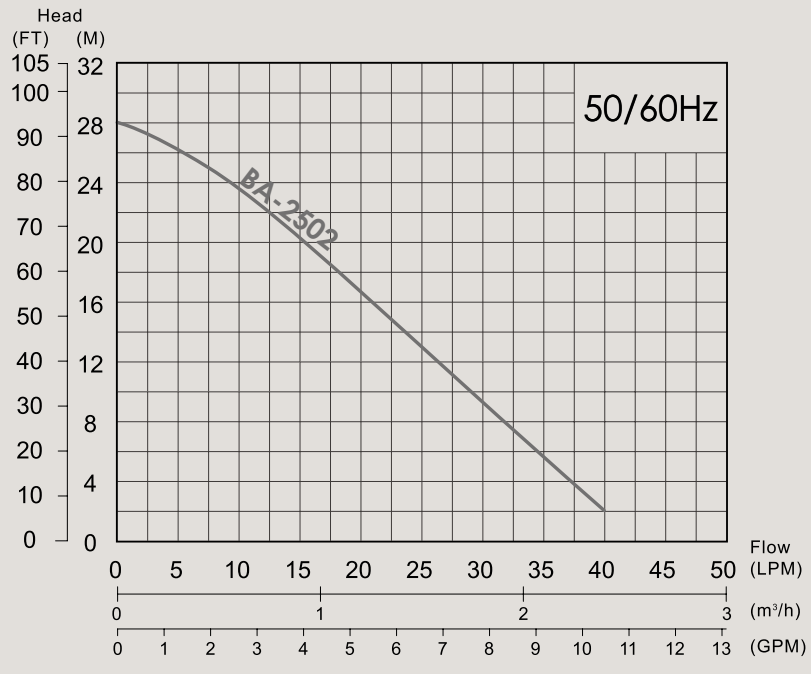


Dimensions

unit: mm

Model	A	B	C
BA-2502	168	78	252
BA-2502S	168	78	252
BA-2502T	168	78	252
BA-2502TS	168	78	252

Performance Curve



Specifications

Model	Output		Outlet		Max Flow (LPM)	Flow Head(LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch		2M	4M	6M	8M	10M			
BA-2502						36	29	22	15	8		252 x 170 x 168	6.5
BA-2502S	1/4	200	25	1"	40	36	29	22	15	8	30	252 x 170 x 168	6.5
BA-2502T						36	29	22	15	8			
BA-2502TS						36	29	22	15	8			

"s" means stainless steel impeller, "T" means pump with pressure tank.



Product Features

- Robust construction
- Frequent Start
- Stainless steel impeller is optional
- Pressure tank is optional

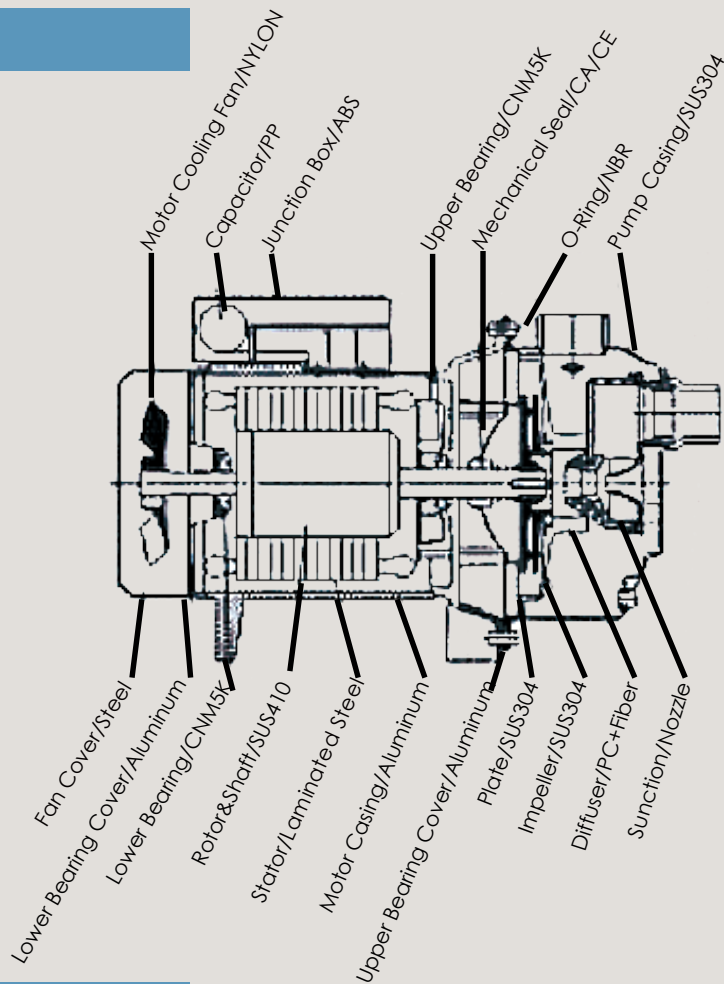
Technical Data

- Max. flow rate: 75LPM (4.5m³/h)
- Max. head: 42m
- PH values: 6 to 8
- Power: 1/2HP to 1HP / 400W to 750W
- Liquid Temp.: 0°C to 60°C / +32°F to +140 °F
- Degree of protection: IP 55
- Insulation class: F
- Material:
 - Motor casing - Aluminum
 - Pump casing - SUS304
 - Impeller - SUS304

Applications

- Water distribution
- Pressure boosting
- Irrigation
- Washing
- Rain water collection
- Swimming pools
- Fountains

Constructions

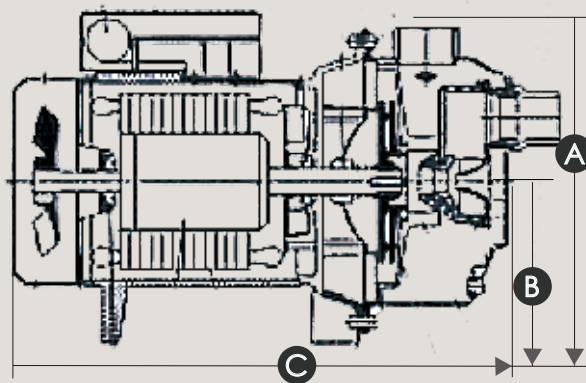
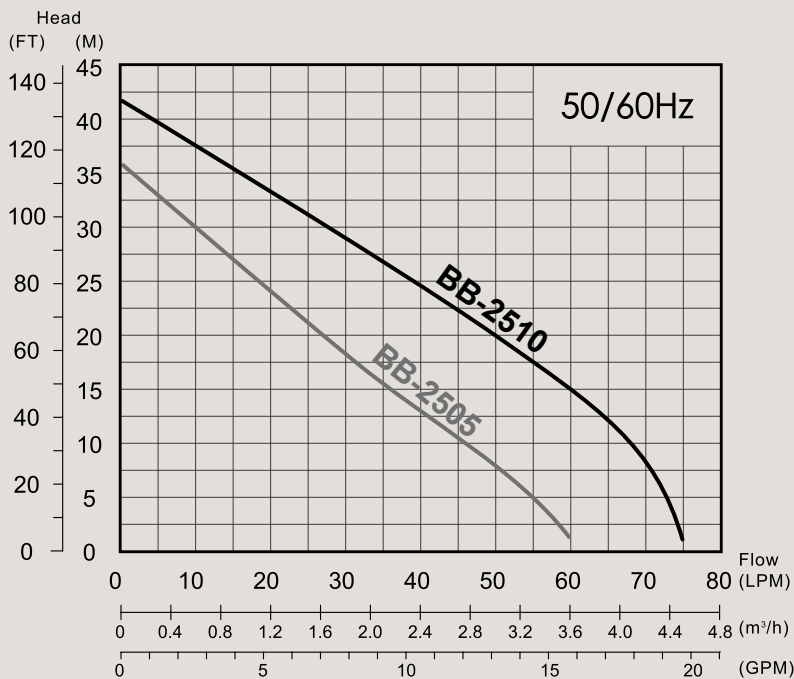


Dimensions

unit: mm

Model	A	B	C
BB-2505	196	158	345
BB-2505E	196	158	345
BB-2510	196	158	380
BB-2510E	196	158	380

Performance Curve



Specifications

Model	Output		Outlet		Max. Flow (LPM)	Flow Head(LPM)					Max. Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch		5M	10M	15M	20M	30M			
BB-2505	1/2	400	25	1"	60	55	46	36	27	10	36	365 x 170 x 195	8
BB-2505E						55	46	36	27	10			
BB-2510	1	750			75	73	68	60	50	28	42	354 x 184 x 202	9
BB-2510E						73	68	60	50	28			

"E" means pump with pressure switch. Tank is optional.

Product Features

- High operating efficiency- lowers operating costs
- Stainless steel liquid end components- high quality; corrosion resistance
- Open or close impeller is optional

Technical Data

- Max. flow rate: 720LPM(43.2 m³/h)
- Max. head: 24m
- Max. particle size: 19mm(open impeller design)
- PH values: 6 to 8
- Power: 2HP to 3HP/ 1.5kW to 2.2kW
- Liquid Temp.: 4°C to 80°C/ +39°F to +176 °F
- Degree of protection: IP 55
- Insulation class: F
- Max. working pressure: 7 bar
- Material:
Pump body - Stainless Steel
Impeller - Stainless Steel

Applications

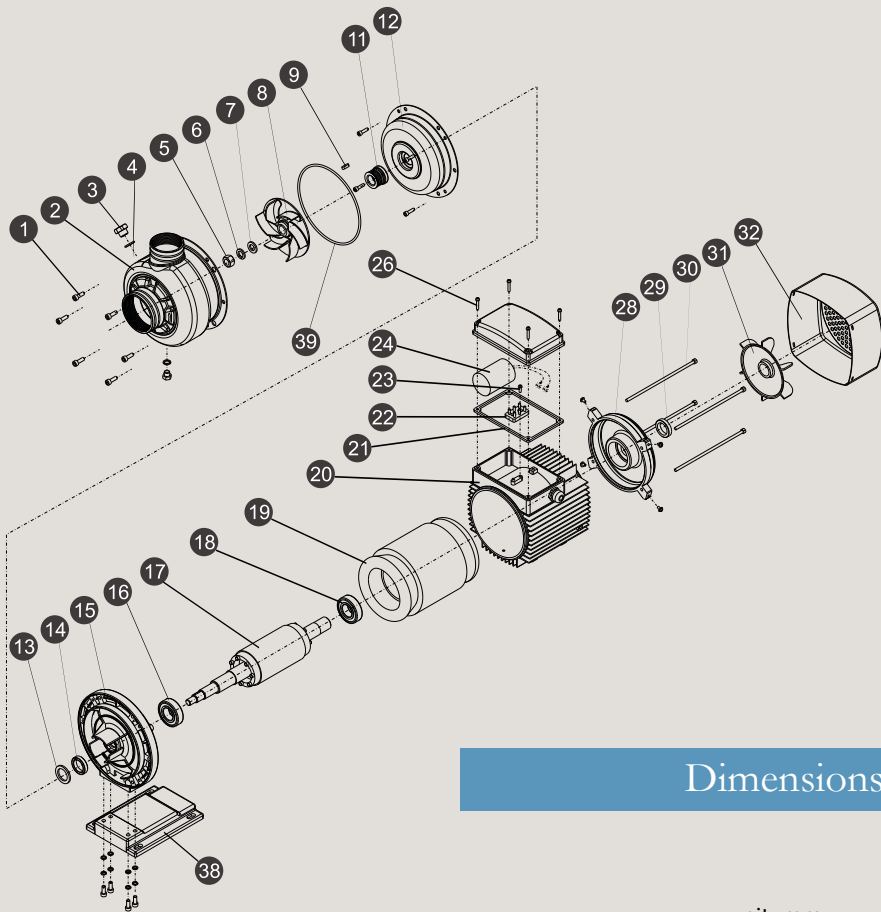
- Beverage process
- Dirty liquid handling
- Food process
- Liquid transfer
- Water treatment
- Plant services
- Pressure boosting
- Spraying Systems
- Water Circulation



Constructions

Construction

No.	Description	Material	No.	Description	Material
1	Bolt	SUS304	21	Rubber Mat	NBR
2	Clip connection	SUS305	22	Terminal Block	
2a	Thread connection	SUS306	23	Bolt	Zinc Plated
3	Priming plug	SUS307	24	Capacitor	
4	O-ring	FPM	25	Terminal bBox	Aluminum
5	Nut	SUS304	26	Bolt	Zinc Plated
6	Spring Washer	SUS305	27	Bolt	SUS 304
7	Flat Washer	SUS306	28	Back end Cover	Aluminum
8	Impeller	SUS307	29	Reinforce Seal	NBR
9	Flat Key	SUS308	30	Bolt	Zinc Plated
10	Bolt	SUS309	31	Fan	PP
11	Mechanical Seal	Carbon/ NBR/ Cermic	32	Fan Cover	08F
12	Pump Cover	SUS304	33	Drain Plug	SUS 304
13	Washer	EPDM	34	Washer	Pa66
14	Reinforced Seal	NBR	35	Bolt	Zinc Plated
15	Front end Bearing	AKUMIMUN	36	Spring Washer	Spring Steel
16	Bearing	NSK	37	Flat Washer	Zinc Plated
17	Rotor in Total		38	Base	FCD
18	Bearing	NSK	39	Labyrinth Ring	SUS 304
19	Stator in total		40	O-ring	FPM
20	Base	Aluminum			

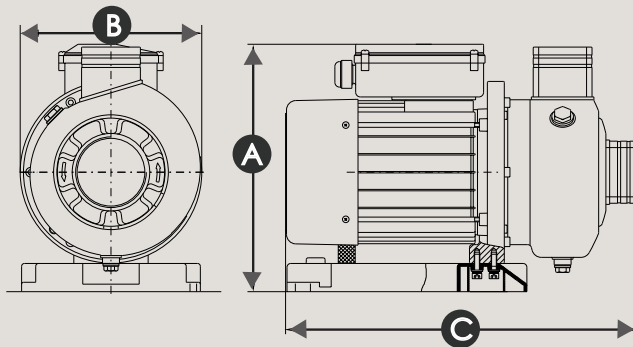
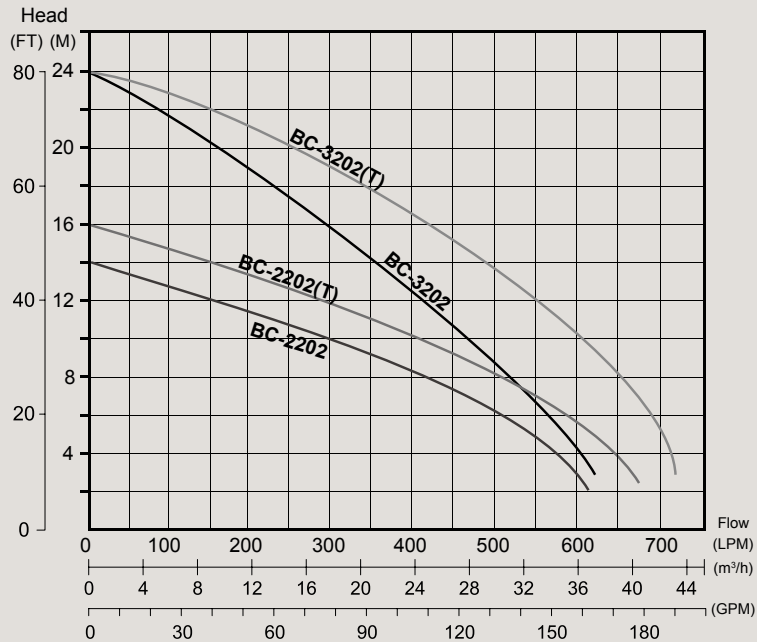


Dimensions

unit: mm

Model	A		B	C
	1φ	3φ		
BC-2202	263	235	193	378
	242	242	193	413

Performance Curve



Specifications

Model	Phase	Output		Connection	Max Flow (LPM)	Flow Head(LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
		HP	kW			4M	6M	8M	10M	12M			
BC-2202	1	2	1.5	2"X2"	620	570	505	415	295	160	14	380 x 195 X 265	20
	3	3	2.2										
BC-3202	1	2	1.5	2"X2"	630	570	495	420	325	230	24	380 x 195 x 265	24
	3	3	2.2										

Product Features

- Two-stage & Double Stainless steel impeller
- High operating efficiency- lowers operating costs
- Self priming pump

Technical Data

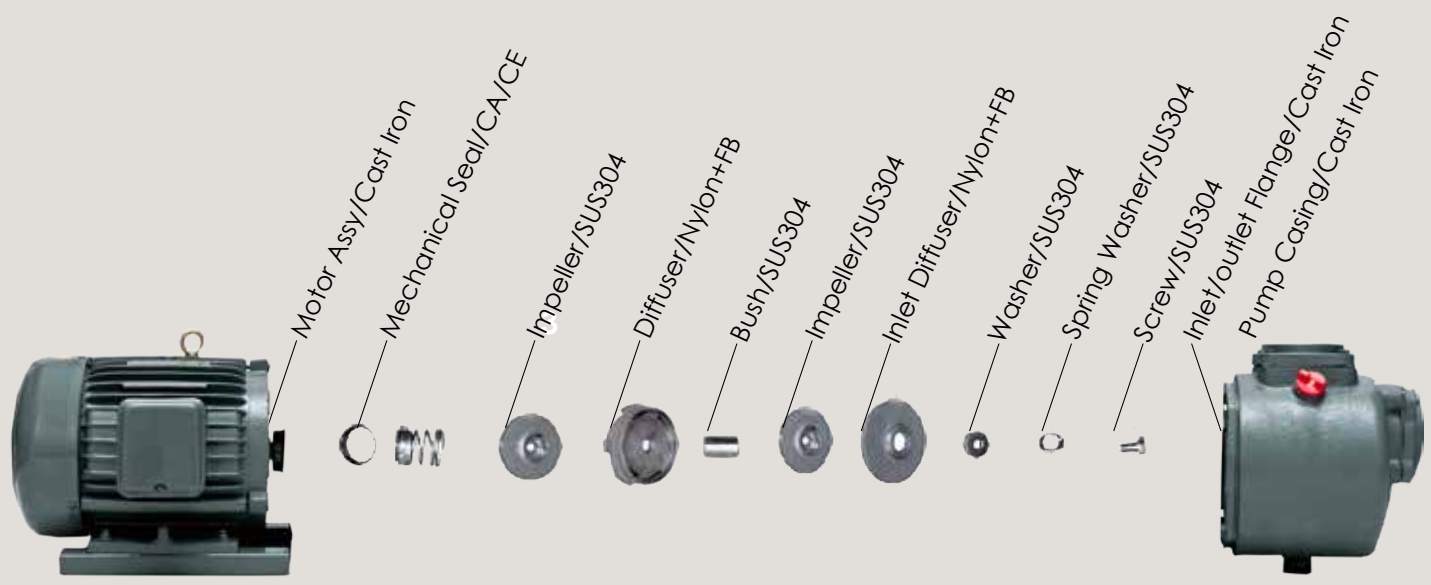
- Max. flow rate: 750LPM(45 m³/h)
- Max. head: 55m
- PH values: 6 to 8
- Power: 3HP to 7.5HP/ 2.2kW to 5.5kW
- Liquid Temp.: 4°C to 40°C/ +39°F to +104 °F
- Degree of protection: IP 44
- Insulation class: B
- Material:
Pump body - Cast iron
Impeller - SUS304

Applications

- Water supply and pressure boosting
- Water circulation
- Industry
- Irrigation
- Construction
- Commercial
- Municipal
- Residential
- Water Transfer



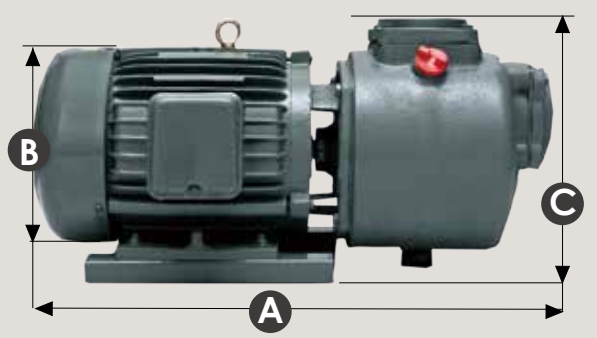
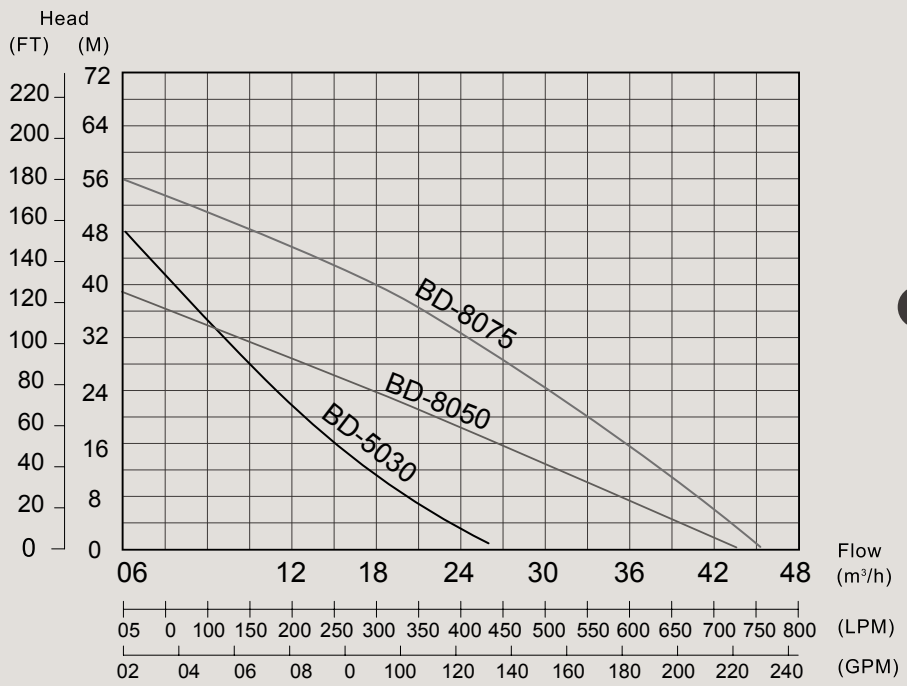
Constructions



Dimensions

unit: mm			
Model	A	B	C
BD-5030	490	260	230
BD-8050	580	300	300
BD-8075	610	300	300

Performance Curve



Specifications

Model	Output		Outlet		Max Flow (LPM)	Flow Head(LPM)					Max Head (M)	Dimension L x W x H(mm)	Weight Kg
	HP	W	mm	inch		9M	18M	27M	36M	45M			
BD-5030	3	2.2	50*50	2"*2"	360	315	251	188	121	39	48	490 x 260 x 230	45
BD-8050	5	3.75	80*80	3" *3"	720	640	445	235	48	-	38	580 x 300 x 300	65
BD-8075	7.5	5.5	80*80	3" *3"	750	722	620	490	365	200	55	610 x 300 x 300	72



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