220V 50Hz

Customer Satisfaction!
Customer Happiness!!
Yes, Hanil

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※ Specifications are subject to change without notice for further improvement.

www.hanilelec.co.kr

220V 50Hz

GOOD DESIGN
Nominated by Ministry of Trade, Industry and Energy

KSA
ISO 9001 CERTIFIED

Made in Korea

MADE BY HANIL

Link to Hanil's website

Company's Outline

Founded in 1964, Hanil Electric Co., Ltd has been leading the domestic pump industry with full line-up of water pumps such as high efficiency booster pump, all stainless steel clean water pump, multi-purpose pump, coolant pump, home pump, agricultural & industrial pump, submersible pump and deep well submersible pump.

Besides, Hanil provides a differentiated value to our customer by delivering booster pump within 24 hours in domestic market. Moreover, we consistently strive to enhance technical comparative advantages and superior quality product through aggressive R&D investment and quality supply chain management system.

The footstep Hanil has followed is the history of water pumps in Korea itself.

We will move forward toward a 100-year company that contributes to human society through endless innovation.

Contents

Contents

※ Selection table : ① Select relevant height according to Meter and the number of stories
② Select equivalent flow rate according to the number of households and the flow rate at the bottom
③ Select the model according to height(m) and flow rate

Pump selection table

m	Floor	Model									
113.3m	30st	1-40807	1-40807	1-40807	2-40807	2-40807	2-40910	3-40807	3-40910	4-40807	4-40910
110.2m	29st	1-40807	1-40807	1-40807	2-40807	2-40807	2-40910	3-40807	3-40910	4-40807	4-40910
107.1m	28st	1-40807	1-40807	1-40807	2-40807	2-40807	2-40807	3-40807	3-40807	4-40807	4-40807
104.0m	27st	1-40807	1-40807	1-40807	2-40807	2-40807	2-40807	3-40807	3-40807	4-40807	3-50615
100.9m	26st	2-21103	2-31105	1-40707	2-40707	2-40707	2-40807	3-40707	3-40807	4-40707	3-50615
97.9m	25st	2-21103	2-31105	1-40707	2-40707	2-40707	2-40807	3-40707	3-40807	4-40707	3-50615
94.8m	24st	2-21103	2-31105	1-40707	2-40707	2-40707	2-40707	3-40707	3-40707	4-40707	3-50615
91.7m	23st	2-21003	2-31003	1-40707	2-40707	2-40707	2-40707	3-40707	3-40707	2-50615	3-50615
88.6m	22st	2-21003	2-31003	1-40707	2-40607	2-40607	2-40707	3-40707	3-40707	2-50615	3-50615
85.5m	21st	2-21003	2-31003	1-40607	2-40607	2-40607	2-40707	3-40607	3-40707	2-50615	3-50510
82.4m	20st	2-20902	2-31003	1-40607	2-31105	3-31105	2-40707	3-40607	3-40707	2-50615	3-50510
79.3m	19st	2-20902	2-31003	1-40607	2-31105	3-31105	2-40707	3-40607	3-40707	2-50615	3-50510
76.2m	18st	2-20902	1-31105	1-40607	2-31003	3-31003	2-40607	3-40607	3-40607	2-50510	3-50510
73.1m	17st	1-30803	1-31105	1-40505	2-31003	3-31003	2-40607	3-40505	3-40607	2-50510	3-50510
70.0m	16st	1-30803	1-31105	1-40505	2-31003	3-31003	2-40607	3-40505	3-40607	2-50510	3-50407
67.0m	15st	1-30803	1-31003	1-40505	2-30903	3-30903	2-40607	3-40505	3-40607	2-50510	3-50407
63.9m	14st	2-20701	1-31003	1-40505	2-30903	3-30903	2-40505	3-40505	3-40505	2-50510	3-50407
60.8m	13st	2-20701	1-30903	1-40505	2-30803	3-30803	2-40505	3-40505	3-40505	2-50407	3-50407
57.7m	12st	2-20701	1-30903	1-40405	2-30803	3-30803	2-40505	3-40505	3-40505	2-50407	3-50407
54.6m	11st	2-20601	1-30803	1-40405	2-30703	3-30703	2-40505	3-40405	3-40505	2-50407	3-50407
51.5m	10st	2-20601	1-30803	1-40405	2-30703	3-30703	2-40505	3-40405	3-40505	2-50407	3-50407
48.4m	9st	2-20601	1-30703	1-40405	2-30703	3-30703	2-40405	3-40405	3-40405	2-50307	3-50307
45.3m	8st	2-20501	1-30703	1-40405	2-30602	3-30602	2-40405	3-40405	3-40405	2-50307	3-50307
42.2m	7st	2-20501	1-30703	1-40303	2-30602	3-30602	2-40405	3-40303	3-40405	2-50307	3-50307
39.1m	6st	2-20501	1-30602	1-40303	2-30602	3-30602	2-40405	3-40303	3-40405	2-50307	3-50307
39.1m	5st	2-20401	1-30602	1-40303	2-30502	3-30502	2-40303	3-40303	3-40303	2-50307	3-50307
33.0m	4st	2-20401	1-30602	1-40303	2-30502	3-30502	2-40303	3-40303	3-40303	2-50307	3-50205
29.9m	3rd	2-20401	1-30502	1-40303	2-30502	3-30502	2-40303	3-40202	3-40303	2-50205	3-50205
26.8m	2nd	1-80/096	1-30502	2-80/096	2-30401	3-30401	2-40303	3-40202	3-40303	2-50205	3-50205
23.7m	1st	1-80/096	1-30401	2-80/096	2-30401	3-30401	2-40202	3-40202	3-40202	2-50205	3-50205
The number of households		10	20	30	50	80	100	150	200	250	300
Daily usage(LPM)		90	140	180	250	360	420	550	670	770	870

ex) 67m(15th floor) 420lpm(100 households) Selection table :	2-40607	2 ▶ The number of pump : Two pumps 4 ▶ Pipe diameter : 40A 06 ▶ The number of impeller stages : 6 stages 07 ▶ Motor HP : 7.5HP	AIT : Inverter system AIE : Individual inverter ACS : Sensor control system

Pump selection table

m	Floor	Model											
113.3m	30st	4-40910	4-50615	4-50615	5-40910	2-8730	2-8730	2-8730	5-50615	3-8730	3-8730	4-8730	4-8730
110.2m	29st	4-40910	4-50615	4-50615	5-40910	2-8730	2-8730	2-8730	5-50615	3-8730	3-8730	4-8730	4-8730
107.1m	28st	4-40910	4-50615	4-50615	5-40910	2-8730	2-8730	2-8730	5-50615	3-8730	3-8730	4-8730	4-8730
104.0m	27st	4-40910	4-50615	4-50615	4-50615	2-8730	2-8730	2-8730	5-50615	3-8730	3-8730	4-8730	4-8730
100.9m	26st	3-50615	4-40910	4-50615	4-50615	5-40910	2-8730	2-8730	5-50615	3-8730	3-8730	4-8730	4-8730
97.9m	25st	3-50615	4-40910	4-50615	4-50615	5-40910	2-8730	2-8730	5-50615	3-8730	3-8730	4-8730	4-8730
94.8m	24st	3-50615	3-50615	4-50615	4-50615	4-50615	2-8730	2-8730	2-8730	3-8730	3-8730	3-8730	4-8730
91.7m	23st	3-50615	3-50615	3-50615	4-50615	4-50615	4-50615	2-8730	2-8730	3-8630	3-8630	4-8630	4-8630
88.6m	22st	3-50615	3-50615	3-50615	4-50615	4-50615	4-50615	2-8730	2-8730	3-8630	3-8630	4-8630	4-8630
85.5m	21st	3-50615	3-50615	3-50615	4-50510	4-50615	4-50615	2-8730	2-8730	3-8630	3-8630	4-8630	4-8630
82.4m	20st	3-50510	3-50615	3-50615	4-50510	4-50615	4-50615	2-8630	2-8730	3-8630	3-8630	4-8630	4-8630
79.3m	19st	3-50510	3-50510	3-50615	4-50510	4-50510	4-50615	2-8630	2-8630	3-8630	3-8630	4-8630	4-8630
76.2m	18st	3-50510	3-50510	3-50510	4-50510	4-50510	4-50510	2-8630	2-8630	3-8525	3-8525	4-8525	4-8525
73.1m	17st	3-50510	3-50510	3-50510	4-50510	4-50510	4-50510	2-8630	2-8630	3-8525	3-8525	4-8525	4-8525
70.0m	16st	3-50510	3-50510	3-50510	4-50407	4-50510	4-50510	2-8630	2-8630	3-8525	3-8525	4-8525	4-8525
67.0m	15st	3-50407	3-50510	3-50510	4-50407	4-50510	4-50510	2-8630	2-8630	3-8525	3-8525	4-8525	4-8525
63.9m	14st	3-50407	3-50407	3-50510	4-50407	4-50407	4-50510	2-8525	2-8630	3-8420	3-8420	4-8420	4-8420
60.8m	13st	3-50407	3-50407	3-50407	4-50407	4-50407	4-50407	2-8525	2-8525	3-8420	3-8420	4-8420	4-8420
57.7m	12st	3-50407	3-50407	3-50407	4-50407	4-50407	4-50407	2-8525	2-8525	3-8420	3-8420	4-8420	4-8420
54.6m	11st	3-50407	3-50407	3-50407	4-50407	4-50407	4-50407	2-8525	2-8525	3-8420	3-8420	4-8420	4-8420
51.5m	10st	3-50407	3-50407	3-50407	4-50407	4-50407	4-50407	2-8420	2-8525	3-8420	3-8420	4-8420	4-8420
48.4m	9st	3-50307	3-50307	3-50407	4-50307	4-50307	4-50407	2-8420	2-8525	3-8420	3-8420	4-8420	4-8420
45.3m	8st	3-50307	3-50307	3-50307	4-50307	4-50307	4-50307	2-8420	2-8525	3-8315	3-8315	4-8315	4-8315
42.2m	7st	3-50307	3-50307	3-50307	4-50307	4-50307	4-50307	2-8420	2-8420	3-8315	3-8315	4-8315	4-8315
39.1m	6st	3-50307	3-50307	3-50307	4-50307	4-50307	4-50307	2-8315	2-8420	3-8315	3-8315	4-8315	4-8315
36.1m	5st	3-50307	3-50307	3-50307	4-50307	4-50307	4-50307	2-8315	2-8315	3-8315	3-8315	4-8315	4-8315
33.0m	4st	3-50205	3-50205	3-50307	4-50205	4-50205	4-50307	2-8315	2-8315	3-8315	3-8315	4-8315	4-8315
29.9m	3rd	3-50205	3-50205	3-50205	4-50205	4-50205	4-50205	2-8315	2-8315	3-8210	3-8210	4-8210	4-8210
26.8m	2nd	3-50205	3-50205	3-50205	4-50205	4-50205	4-50205	2-8315	2-8315	3-8210	3-8210	4-8210	4-8210
23.7m	1st	3-50205	3-50205	3-50205	4-50205	4-50205	4-50205	2-8210	2-8210	3-8210	3-8210	4-8210	4-8210
The number of households		350	400	450	500	600	650	750	800	950	1000	1200	1330
Daily usage(LPM)		970	1060	1140	1230	1390	1500	1730	1830	2170	2280	2720	3000

INVERTER BOOSTER SYSTEM (TOUCH SCREEN)

AIT2S,3S,4S TYPE

High efficiency equipment

For water supply

Clear water pump

24 Hours Delivery Guarantee Only Domestic Sales (S. Korea)

Model selection guide

A	ABSOLUTE
I	INVERTER
T	(TOUCH SCREEN)
2, 3, 4	THE NUMBER OF PUMP
S	STAINLESS STEEL
30502	PUMP MODEL
-3T -4T	THREE PHASE 380V THREE PHASE 440V

APPLICATION

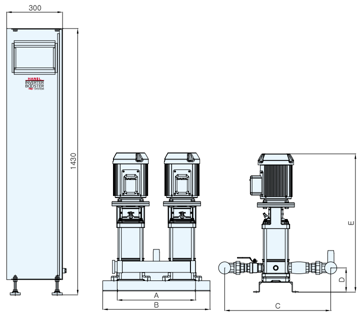
Apartment
Building
Shopping mall
School, Hospital
Sauna

TOUCH SCREEN

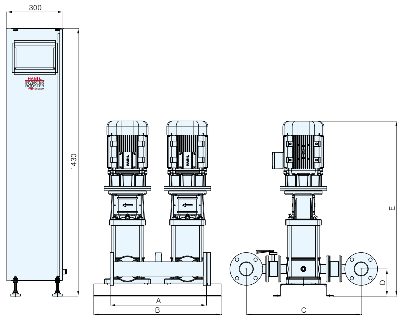
※ Dimension of control box panel

- Less than 5HP-300×500×1,430(mm)
- 7.5~15HP-600×600×1,230(mm)

AIT2S-TYPE



AIT2S-2, 3TYPE



AIT2S-4, 5TYPE

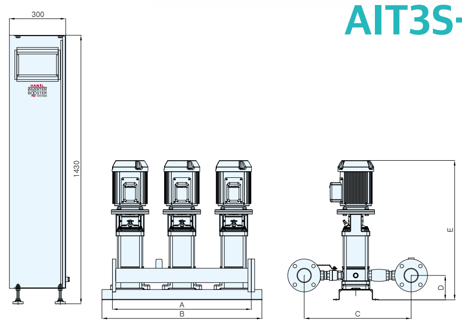
FEATURE

Cutting edge **HIGH EFFICIENCY** water supply system

- Automatic selection either alternative operation or parallel operation depending on water demands
- Excellent water supply to the higher stories / Constant pressure & flow rate at each household
- Rust-proof stainless steel pipe
- High efficiency with Inverter type & Operating number control type
- Long life
- Low pressure deviation
- Idling prevention

TOUCH SCREEN

AIT3S-TYPE



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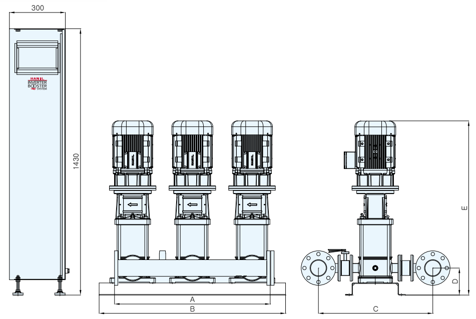
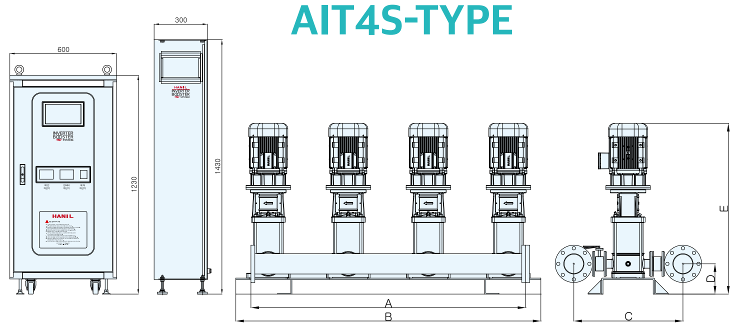


AIT3S-4, 5TYPE

TOUCH SCREEN

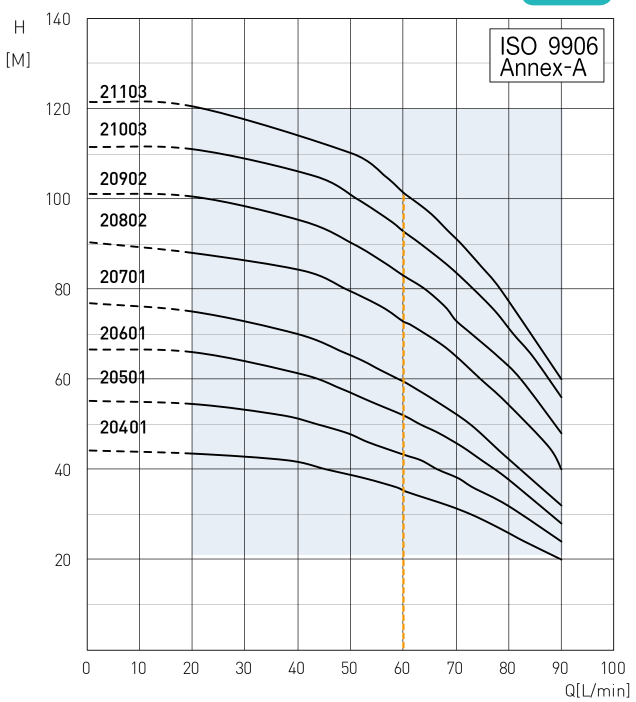
AIT4S-TYPE



AIT4S-TYPE

PERFORMANCE CURVE

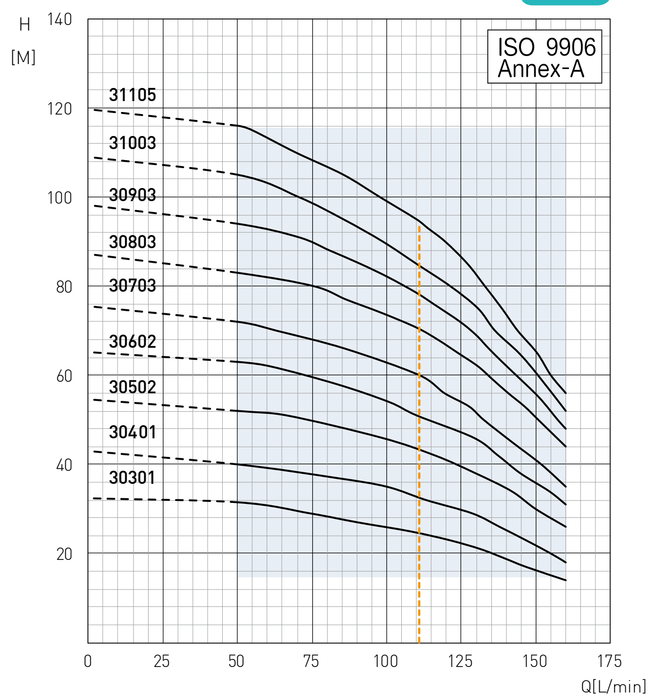
2TYPE



1PUMP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
2PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12
3PUMP	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18
4PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6	24

[m³/h]

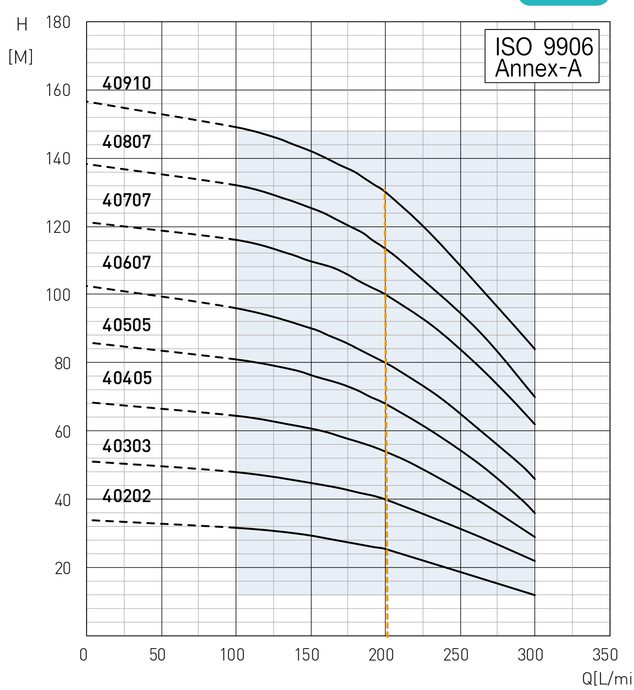
3TYPE



1PUMP	0	1.5	3	4.5	6	7.5	9	10.5
2PUMP	0	3	6	9	12	15	18	21
3PUMP	0	4.5	9	13.5	18	22.5	27	31.5
4PUMP	0	6	12	18	24	30	36	42

[m³/h]

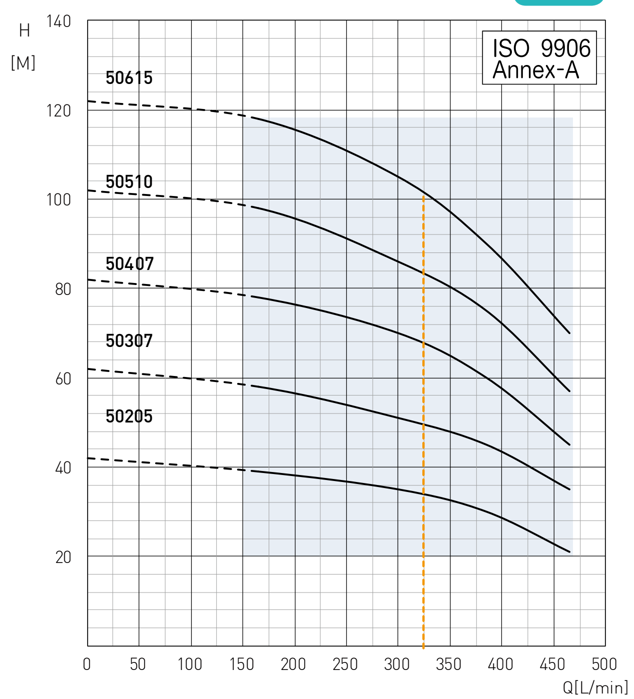
4TYPE



1PUMP	0	3	6	9	12	15	18	21
2PUMP	0	6	12	18	24	30	36	42
3PUMP	0	9	18	27	36	45	54	63
4PUMP	0	12	24	36	48	60	72	84

[m³/h]

5TYPE



1PUMP	0	3	6	9	12	15	18	21	24	27	30
2PUMP	0	6	12	18	24	30	36	42	48	54	60
3PUMP	0	9	18	27	36	45	54	63	72	81	90
4PUMP	0	12	24	36	48	60	72	84	96	108	120

[m³/h]

SPECIFICATION

AIT2S-TYPE

	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D×E
1	AIT2S-20401-3T(4T)	3T : Three phase 380 4T : Three phase 440	1×2	44	120(35)	40	400×576×630×130×622
2	AIT2S-20501-3T(4T)		1×2	55	120(43)		400×576×630×130×641
3	AIT2S-20601-3T(4T)		1.5×2	66	120(52)		400×576×630×130×672
4	AIT2S-20701-3T(4T)		1.5×2	77	120(60)		400×576×630×130×692
5	AIT2S-20802-3T(4T)		2×2	90	120(73)		400×576×630×130×717
6	AIT2S-20902-3T(4T)		2×2	101	120(83)		400×576×630×130×737
7	AIT2S-21003-3T(4T)		3×2	111	120(93)		400×576×630×130×767
8	AIT2S-21103-3T(4T)		3×2	121	120(100)		400×576×630×130×787
9	AIT2S-30301-3T(4T)		1×2	32	220(24)	50	405×576×660×130×609
10	AIT2S-30401-3T(4T)		1.5×2	43	220(32)		405×576×660×130×649
11	AIT2S-30502-3T(4T)		2×2	54	220(42)		405×576×660×130×677
12	AIT2S-30602-3T(4T)		2×2	65	220(51)		405×576×660×130×702
13	AIT2S-30703-3T(4T)		3×2	75	220(60)		405×576×660×130×742
14	AIT2S-30803-3T(4T)		3×2	87	220(68)		405×576×660×130×767
15	AIT2S-30903-3T(4T)		3×2	98	220(76)		405×576×660×130×792
16	AIT2S-31003-3T(4T)		3×2	109	220(85)		405×576×660×130×817
17	AIT2S-31105-3T(4T)		5×2	119	220(93)		405×576×660×130×917
18	AIT2S-40202-3T(4T)		2×2	34	400(26)	65	515×680×770×135×713
19	AIT2S-40303-3T(4T)		3×2	51	400(39)		515×680×770×135×761
20	AIT2S-40405-3T(4T)		5×2	68	400(52)		515×680×770×135×892
21	AIT2S-40505-3T(4T)		5×2	86	400(65)		515×680×770×135×924
22	AIT2S-40607-3T(4T)		7.5×2	102	400(78)		515×680×770×135×978
23	AIT2S-40707-3T(4T)		7.5×2	121	400(100)		515×680×770×135×1010
24	AIT2S-40807-3T(4T)		7.5×2	138	400(115)		515×680×770×135×1042
25	AIT2S-40910-3T(4T)		10×2	156	400(130)		515×680×770×135×1127
26	AIT2S-50205-3T(4T)		5×2	41	660(35)	80	515×680×870×145×847
27	AIT2S-50307-3T(4T)		7.5×2	61	660(53)		515×680×870×145×913
28	AIT2S-50407-3T(4T)		7.5×2	82	660(73)		515×680×870×145×958
29	AIT2S-50510-3T(4T)		10×2	102	660(90)		515×680×870×145×1056
30	AIT2S-50615-3T(4T)		15×2	123	660(110)		515×680×870×145×1101

※ Optimum head is 85% of the indicated Max. head
※ Three phase 220V & 440V : configure to order

※ Design and specification are subject to revise for quality improvement without notice
※ Pipe diameter below 50A is screw piping type

SPECIFICATION

AIT3S-TYPE

No.	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D×E
1	AIT3S-20401-3T(4T)	3T : Three phase 380 4T : Three phase 440	1×3	44	180(35)	50	780×852×630×130×622
2	AIT3S-20501-3T(4T)		1×3	55	180(43)		780×852×630×130×641
3	AIT3S-20601-3T(4T)		1.5×3	66	180(52)		780×852×630×130×672
4	AIT3S-20701-3T(4T)		1.5×3	77	180(60)		780×852×630×130×692
5	AIT3S-20802-3T(4T)		2×3	90	180(73)		780×852×630×130×717
6	AIT3S-20902-3T(4T)		2×3	101	180(83)		780×852×630×130×737
7	AIT3S-21003-3T(4T)		3×3	111	180(93)		780×852×630×130×767
8	AIT3S-21103-3T(4T)		3×3	121	180(100)		780×852×630×130×787
9	AIT3S-30301-3T(4T)		1×3	32	330(24)	65	740×852×660×130×609
10	AIT3S-30401-3T(4T)		1.5×3	43	330(32)		740×852×660×130×649
11	AIT3S-30502-3T(4T)		2×3	54	330(42)		740×852×660×130×677
12	AIT3S-30602-3T(4T)		2×3	65	330(51)		740×852×660×130×702
13	AIT3S-30703-3T(4T)		3×3	75	330(60)		740×852×660×130×742
14	AIT3S-30803-3T(4T)		3×3	87	330(68)		740×852×660×130×767
15	AIT3S-30903-3T(4T)		3×3	98	330(76)		740×852×660×130×792
16	AIT3S-31003-3T(4T)		3×3	109	330(85)		740×852×660×130×817
17	AIT3S-31105-3T(4T)		5×3	119	330(93)		740×852×660×130×917
18	AIT3S-40202-3T(4T)		2×3	34	600(26)	80	835×1000×770×135×713
19	AIT3S-40303-3T(4T)		3×3	51	600(39)		835×1000×770×135×761
20	AIT3S-40405-3T(4T)		5×3	68	600(52)		835×1000×770×135×892
21	AIT3S-40505-3T(4T)		5×3	86	600(65)		835×1000×770×135×924
22	AIT3S-40607-3T(4T)		7.5×3	102	600(78)		835×1000×770×135×978
23	AIT3S-40707-3T(4T)		7.5×3	121	600(100)		835×1000×770×135×1010
24	AIT3S-40807-3T(4T)		7.5×3	138	600(115)		835×1000×770×135×1042
25	AIT3S-40910-3T(4T)		10×3	156	600(130)		835×1000×770×135×1127
26	AIT3S-50205-3T(4T)		5×3	41	990(35)	100	835×1000×870×145×847
27	AIT3S-50307-3T(4T)		7.5×3	61	990(53)		835×1000×870×145×913
28	AIT3S-50407-3T(4T)		7.5×3	82	990(73)		835×1000×870×145×958
29	AIT3S-50510-3T(4T)		10×3	102	990(90)		835×1000×870×145×1056
30	AIT3S-50615-3T(4T)		15×3	123	990(110)		835×1000×870×145×1101

※ Optimum head is 85% of the indicated Max. head
※ Three phase 220V & 440V : configure to order
※ Design and specification are subject to revise for quality improvement without notice
※ Pipe diameter below 50A is screw piping type

SPECIFICATION

AIT4S-TYPE

No.	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D×E
1	AIT4S-30301-3T(4T)	3T : Three phase 380 4T : Three phase 440	1×4	32	440(24)	80	1545×1700×660×165×644
2	AIT4S-30401-3T(4T)		1.5×4	43	440(32)		1545×1700×660×165×684
3	AIT4S-30502-3T(4T)		2×4	54	440(42)		1545×1700×660×165×712
4	AIT4S-30602-3T(4T)		2×4	65	440(51)		1545×1700×660×165×737
5	AIT4S-30703-3T(4T)		3×4	75	440(60)		1545×1700×660×165×777
6	AIT4S-30803-3T(4T)		3×4	87	440(68)		1545×1700×660×165×802
7	AIT4S-30903-3T(4T)		3×4	98	440(76)		1545×1700×660×165×827
8	AIT4S-31003-3T(4T)		3×4	109	440(85)		1545×1700×660×165×852
9	AIT4S-31105-3T(4T)		5×4	119	440(93)		1545×1700×660×165×952
10	AIT4S-40202-3T(4T)		2×4	34	800(26)	100	1545×1700×770×170×748
11	AIT4S-40303-3T(4T)		3×4	51	800(39)		1545×1700×770×170×796
12	AIT4S-40405-3T(4T)		5×4	68	800(52)		1545×1700×770×170×927
13	AIT4S-40505-3T(4T)		5×4	86	800(65)		1545×1700×770×170×959
14	AIT4S-40607-3T(4T)		7.5×4	102	800(78)		1545×1700×770×170×1013
15	AIT4S-40707-3T(4T)		7.5×4	121	800(100)		1545×1700×770×170×1045
16	AIT4S-40807-3T(4T)		7.5×4	138	800(115)		1545×1700×770×170×1077
17	AIT4S-40910-3T(4T)		10×4	156	800(130)		1545×1700×770×170×1162
18	AIT4S-50205-3T(4T)		5×4	41	1320(35)	125	1545×1680×870×180×882
19	AIT4S-50307-3T(4T)		7.5×4	61	1320(53)		1545×1680×870×180×948
20	AIT4S-50407-3T(4T)		7.5×4	82	1320(73)		1545×1680×870×180×993
21	AIT4S-50510-3T(4T)		10×4	102	1320(90)		1545×1680×870×180×1091
22	AIT4S-50615-3T(4T)		15×4	123	1320(110)		1545×1680×870×180×1136

※ Optimum head is 85% of the indicated Max. head
※ Three phase 220V & 440V : configure to order
※ Design and specification are subject to revise for quality improvement without notice
※ Pipe diameter below 50A is screw piping type

High efficiency equipment

For water supply

Clear water pump

24 Hours Delivery Guarantee Only Domestic Sales (S. Korea)

Model selection guide

A	ABSOLUTE
I	INVERTER
E	EACH
1, 2, 3	THE NUMBER OF PUMP
S	STAINLESS STEEL
30502	PUMP MODEL
NONE -2T -3T -4T	SINGLE PHASE 220V THREE PHASE 220V THREE PHASE 380V THREE PHASE 440V

APPLICATION

Sauna

Apartment

Building

Shopping mall

School, Hospital

AIE1S-TYPE

AIE2S-TYPE

AIE3S-TYPE

FEATURE

LOW NOISE, LOW VIBRATION, CONSTANT PRESSURE

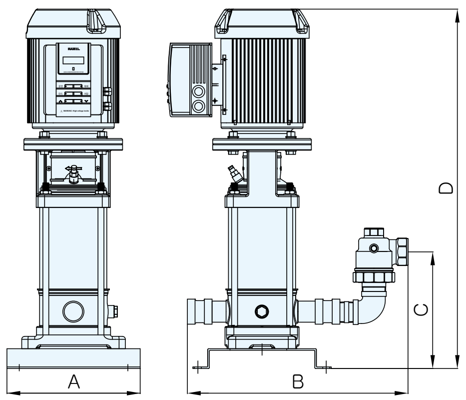
- Enable to use warm water up to 80℃
- Idling prevention, easy operation and set-up operation pressure
- High efficiency with individual inverter
- Constant water supply pressure by inverter control(Pressure deviation: Setting pressure ±0.2kg/cm²)
- Rust-proof stainless steel on water contact surface

Inverter Specification

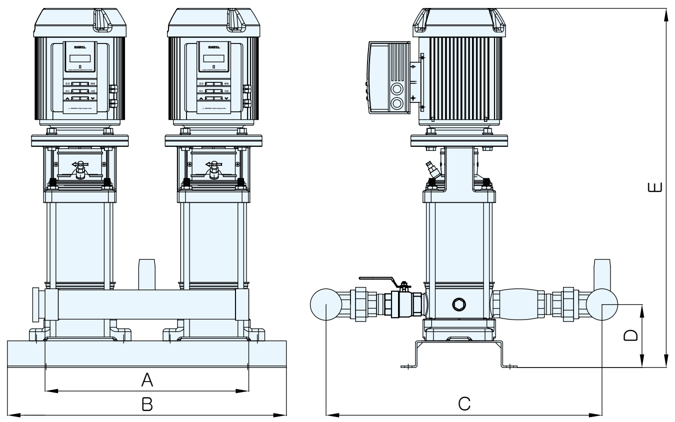
Category	Less than 5 Hp	7.5 ~ 15 Hp	Remark
Display function	FND	LCD	Convenient interface
	Abnormal situation : Show details with English code number	Abnormal situation : Show details in English	
	Show variety of parameter with English code number	Quick recognition : Show variety of parameter in English	
		Easy control : Show variety of info in English	
KEY	6KEY	9KEY	
	Complicated to switch the menu and setup the data	Easy to switch the menu and setup the data	
Key Lock	None	Prevent arbitrary control of data setting	Set point protect
Parameter function manager	None	Quick parameter-Include most frequently use parameter	quik accessibility
		Parameter by group-Include all the parameter	
		Parameter by number-Can be set when every user put the frequent use parameter	
IP Grade	no IP protection degree	IPX5(Water proof rating)	
Individual inverter	1ea~3ea interiocked operation	1ea~3ea interlocked operation	Variety of product line-up
Freeze protection system	None	Protect the pump with slow-operate motor under freeze protection temperature	Freeze protection for pump

AIE1S,2S,3S-TYPE

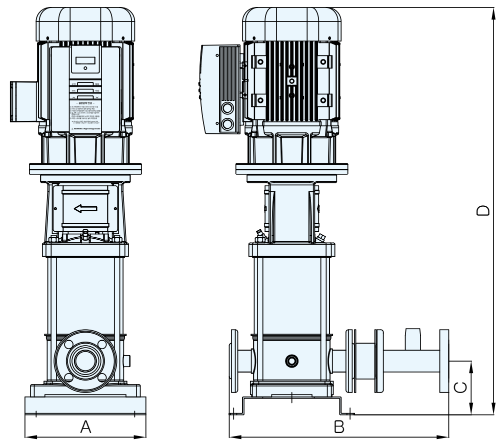
OUTSIDE VIEW



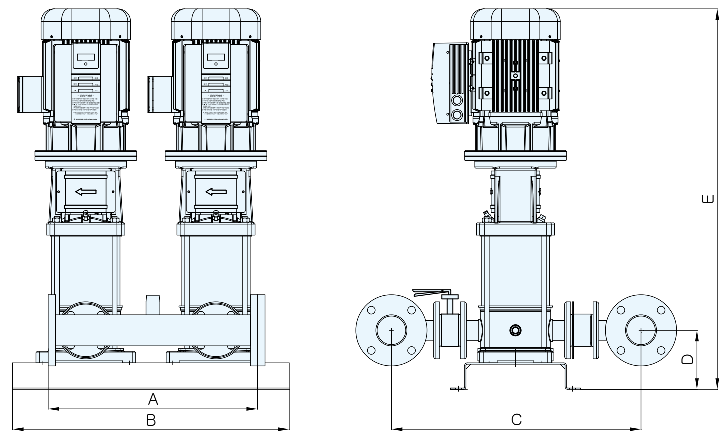
AIE1S-2, 3TYPE



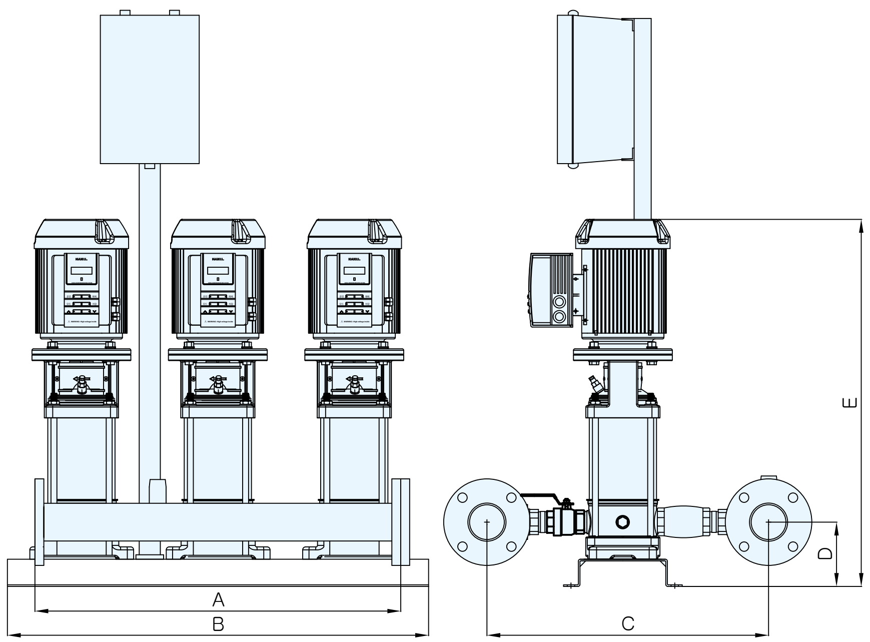
AIE2S-2, 3TYPE



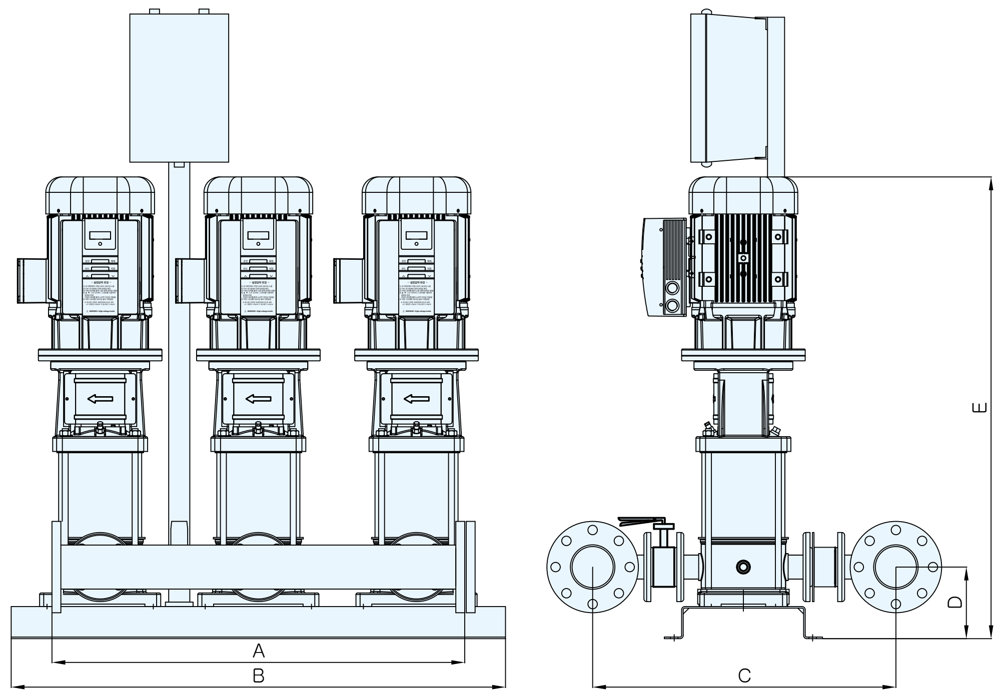
AIE1S-4, 5TYPE



AIE2S-4, 5TYPE



AIE3S-2, 3TYPE

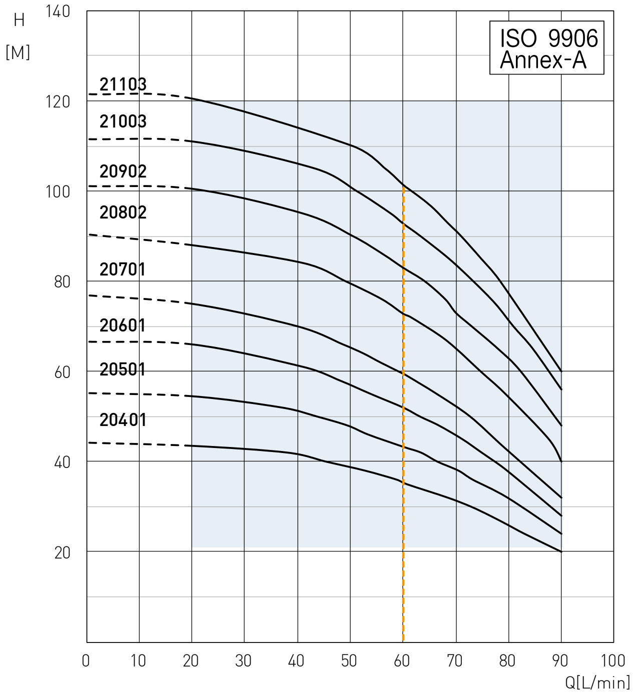


AIE3S-4, 5TYPE

AIE1S,2S,3S-TYPE

PERFORMANCE CURVE

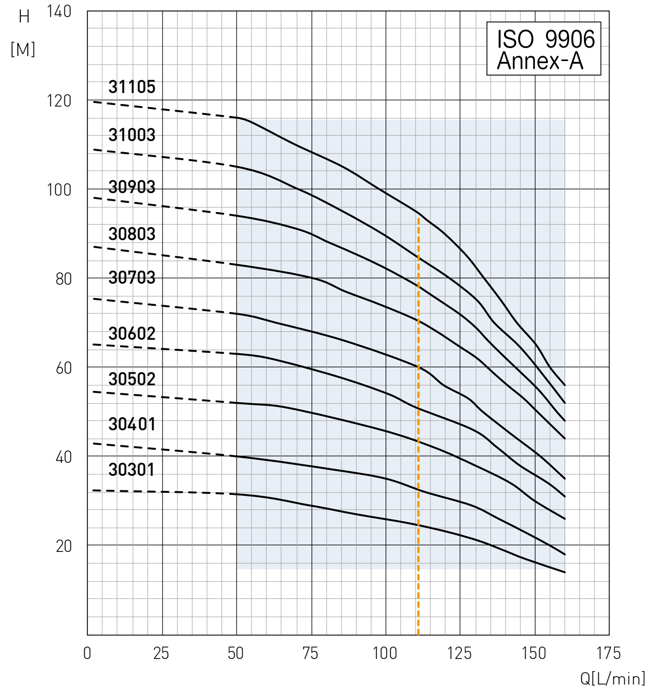
2TYPE



1PUMP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
2PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12
3PUMP	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18
4PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6	24

[m³/h]

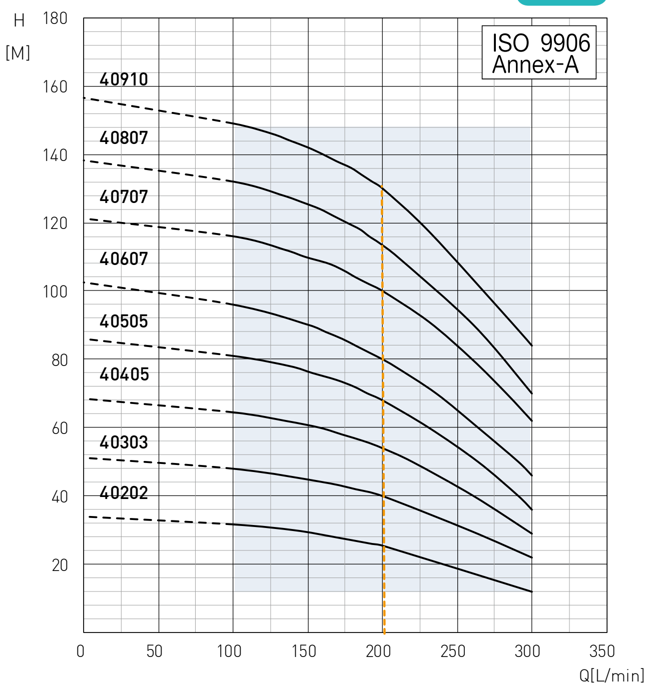
3TYPE



1PUMP	0	1.5	3	4.5	6	7.5	9	10.5
2PUMP	0	3	6	9	12	15	18	21
3PUMP	0	4.5	9	13.5	18	22.5	27	31.5
4PUMP	0	6	12	18	24	30	36	42

[m³/h]

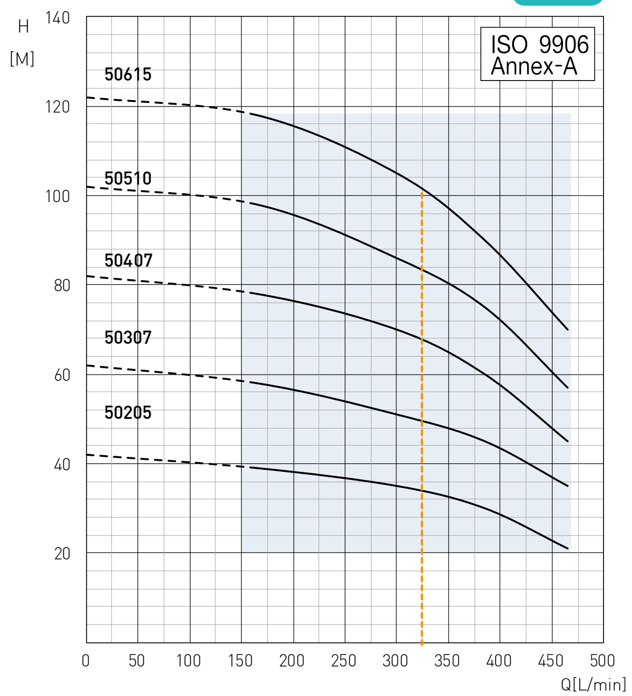
4TYPE



1PUMP	0	3	6	9	12	15	18	21
2PUMP	0	6	12	18	24	30	36	42
3PUMP	0	9	18	27	36	45	54	63
4PUMP	0	12	24	36	48	60	72	84

[m³/h]

5TYPE



1PUMP	0	3	6	9	12	15	18	21	24	27	30
2PUMP	0	6	12	18	24	30	36	42	48	54	60
3PUMP	0	9	18	27	36	45	54	63	72	81	90
4PUMP	0	12	24	36	48	60	72	84	96	108	120

[m³/h]

SPECIFICATION

AIE1S-TYPE

	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D
1	AIE1S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	44	60(35)	25	270×400×235×607
2	AIE1S-20501(-2T, 3T, 4T)		1	55	60(43)		270×400×235×627
3	AIE1S-20601(-2T, 3T, 4T)		1.5	66	60(52)		270×400×235×657
4	AIE1S-20701(-2T, 3T, 4T)		1.5	77	60(60)		270×400×235×677
5	AIE1S-20802(-2T, 3T, 4T)		2	90	60(73)		270×400×235×702
6	AIE1S-20902(-2T, 3T, 4T)		2	101	60(83)		270×400×235×722
7	AIE1S-21003-3T(4T)		3	111	60(93)		270×400×235×752
8	AIE1S-21103-3T(4T)		3	121	60(100)		270×400×235×772
9	AIE1S-30301(-2T, 3T, 4T)		1	32	110(24)	32	270×420×235×594
10	AIE1S-30401(-2T, 3T, 4T)		1.5	43	110(32)		270×420×235×634
11	AIE1S-30502(-2T, 3T, 4T)		2	54	110(42)		270×420×235×662
12	AIE1S-30602(-2T, 3T, 4T)		2	65	110(51)		270×420×235×687
13	AIE1S-30703-3T(4T)		3	75	110(60)		270×420×235×727
14	AIE1S-30803-3T(4T)		3	87	110(68)		270×420×235×752
15	AIE1S-30903-3T(4T)		3	98	110(76)		270×420×235×777
16	AIE1S-31003-3T(4T)		3	109	110(85)		270×420×235×802
17	AIE1S-31105-3T(4T)		5	119	110(93)		270×420×235×902
18	AIE1S-40202(-2T, 3T, 4T)		2	34	200(26)	40	270×475×120×698
19	AIE1S-40303-3T(4T)		3	51	200(39)		270×475×120×746
20	AIE1S-40405-3T(4T)		5	68	200(52)		270×475×120×877
21	AIE1S-40505-3T(4T)		5	86	200(65)		270×475×120×909
22	AIE1S-40607-3T(4T)		7.5	102	200(78)		270×475×120×963
23	AIE1S-40707-3T(4T)		7.5	121	200(100)		270×475×120×995
24	AIE1S-40807-3T(4T)		7.5	138	200(115)		270×475×120×1027
25	AIE1S-40910-3T(4T)		10	156	200(130)		270×475×120×1112
26	AIE1S-50205-3T(4T)		5	41	330(35)	50	270×475×130×832
27	AIE1S-50307-3T(4T)		5	61	330(53)		270×475×130×898
28	AIE1S-50407-3T(4T)		7.5	82	330(73)		270×475×130×943
29	AIE1S-50510-3T(4T)		10	102	330(90)		270×475×130×1041
30	AIE1S-50615-3T(4T)		15	123	330(110)		270×475×130×1086

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order

※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

AIE1S,2S,3S-TYPE

SPECIFICATION

AIE2S-TYPE

	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D×E
1	AIE2S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1×2	44	120(35)	40	400×576×630×130×622
2	AIE2S-20501(-2T, 3T, 4T)		1×2	55	120(43)		400×576×630×130×641
3	AIE2S-20601(-2T, 3T, 4T)		1.5×2	66	120(52)		400×576×630×130×672
4	AIE2S-20701(-2T, 3T, 4T)		1.5×2	77	120(60)		400×576×630×130×692
5	AIE2S-20802(-2T, 3T, 4T)		2×2	90	120(73)		400×576×630×130×717
6	AIE2S-20902(-2T, 3T, 4T)		2×2	101	120(83)		400×576×630×130×737
7	AIE2S-21003-3T(4T)		3×2	111	120(93)		400×576×630×130×767
8	AIE2S-21103-3T(4T)		3×2	121	120(100)		400×576×630×130×787
9	AIE2S-30301(-2T, 3T, 4T)		1×2	32	220(24)	50	405×576×660×130×609
10	AIE2S-30401(-2T, 3T, 4T)		1.5×2	43	220(32)		405×576×660×130×649
11	AIE2S-30502(-2T, 3T, 4T)		2×2	54	220(42)		405×576×660×130×677
12	AIE2S-30602(-2T, 3T, 4T)		2×2	65	220(51)		405×576×660×130×702
13	AIE2S-30703-3T(4T)		3×2	75	220(60)		405×576×660×130×742
14	AIE2S-30803-3T(4T)		3×2	87	220(68)		405×576×660×130×767
15	AIE2S-30903-3T(4T)		3×2	98	220(76)		405×576×660×130×792
16	AIE2S-31003-3T(4T)		3×2	109	220(85)		405×576×660×130×817
17	AIE2S-31105-3T(4T)		5×2	119	220(93)		405×576×660×130×917
18	AIE2S-40202(-2T, 3T, 4T)		2×2	34	400(26)	65	515×680×770×135×713
19	AIE2S-40303-3T(4T)		3×2	51	400(39)		515×680×770×135×761
20	AIE2S-40405-3T(4T)		5×2	68	400(52)		515×680×770×135×892
21	AIE2S-40505-3T(4T)		5×2	86	400(65)		515×680×770×135×924
22	AIE2S-40607-3T(4T)		7.5×2	102	400(78)		515×680×770×135×978
23	AIE2S-40707-3T(4T)		7.5×2	121	400(100)		515×680×770×135×1010
24	AIE2S-40807-3T(4T)		7.5×2	138	400(115)		515×680×770×135×1042
25	AIE2S-40910-3T(4T)		10×2	156	400(130)		515×680×770×135×1127
26	AIE2S-50205-3T(4T)		5×2	41	660(35)	80	515×680×870×145×847
27	AIE2S-50307-3T(4T)		7.5×2	61	660(53)		515×680×870×145×913
28	AIE2S-50407-3T(4T)		7.5×2	82	660(73)		515×680×870×145×958
29	AIE2S-50510-3T(4T)		10×2	102	660(90)		515×680×870×145×1056
30	AIE2S-50615-3T(4T)		15×2	123	660(110)		515×680×870×145×1101

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

SPECIFICATION

AIE1S-TYPE

	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D×E
1	AIE3S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1×3	44	180(35)	50	780×852×630×130×622
2	AIE3S-20501(-2T, 3T, 4T)		1×3	55	180(43)		780×852×630×130×641
3	AIE3S-20601(-2T, 3T, 4T)		1.5×3	66	180(52)		780×852×630×130×672
4	AIE3S-20701(-2T, 3T, 4T)		1.5×3	77	180(60)		780×852×630×130×692
5	AIE3S-20802(-2T, 3T, 4T)		2×3	90	180(73)		780×852×630×130×717
6	AIE3S-20902(-2T, 3T, 4T)		2×3	101	180(83)		780×852×630×130×737
7	AIE3S-21003-3T(4T)		3×3	111	180(93)		780×852×630×130×767
8	AIE3S-21103-3T(4T)		3×3	121	180(100)		780×852×630×130×787
9	AIE3S-30301(-2T, 3T, 4T)		1×3	32	330(24)	65	740×852×660×130×609
10	AIE3S-30401(-2T, 3T, 4T)		1.5×3	43	330(32)		740×852×660×130×649
11	AIE3S-30502(-2T, 3T, 4T)		2×3	54	330(42)		740×852×660×130×677
12	AIE3S-30602(-2T, 3T, 4T)		2×3	65	330(51)		740×852×660×130×702
13	AIE3S-30703-3T(4T)		3×3	75	330(60)		740×852×660×130×742
14	AIE3S-30803-3T(4T)		3×3	87	330(68)		740×852×660×130×767
15	AIE3S-30903-3T(4T)		3×3	98	330(76)		740×852×660×130×792
16	AIE3S-31003-3T(4T)		3×3	109	330(85)		740×852×660×130×817
17	AIE3S-31105-3T(4T)		5×3	119	330(93)		740×852×660×130×917
18	AIE3S-40202(-2T, 3T, 4T)		2×3	34	600(26)	80	835×1000×770×135×713
19	AIE3S-40303-3T(4T)		3×3	51	600(39)		835×1000×770×135×761
20	AIE3S-40405-3T(4T)		5×3	68	600(52)		835×1000×770×135×892
21	AIE3S-40505-3T(4T)		5×3	86	600(65)		835×1000×770×135×924
22	AIE3S-40607-3T(4T)		7.5×3	102	600(78)		835×1000×770×135×978
23	AIE3S-40707-3T(4T)		7.5×3	121	600(100)		835×1000×770×135×1010
24	AIE3S-40807-3T(4T)		7.5×3	138	600(115)		835×1000×770×135×1042
25	AIE3S-40910-3T(4T)		10×3	156	600(130)		835×1000×770×135×1127
26	AIE3S-50205-3T(4T)		5×3	41	990(35)	100	835×1000×870×145×847
27	AIE3S-50307-3T(4T)		7.5×3	61	990(53)		835×1000×870×145×913
28	AIE3S-50407-3T(4T)		7.5×3	82	990(73)		835×1000×870×145×958
29	AIE3S-50510-3T(4T)		10×3	102	990(90)		835×1000×870×145×1056
30	AIE3S-50615-3T(4T)		15×3	123	990(110)		835×1000×870×145×1101

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

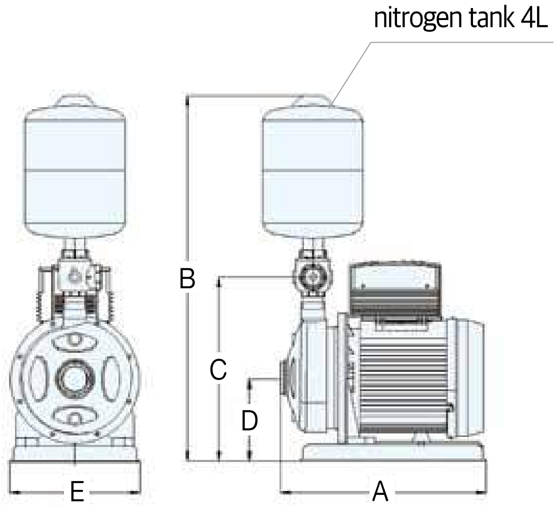
Model selection guide

H	HANIL
I	INVERTER
E	EACH
1	THE NUMBER OF PUMP
80/096	PUMP MODEL
P	PROGRESSIVE
NONE -3T -4T	SINGLE PHASE 220V THREE PHASE 380V THREE PHASE 440V

APPLICATION

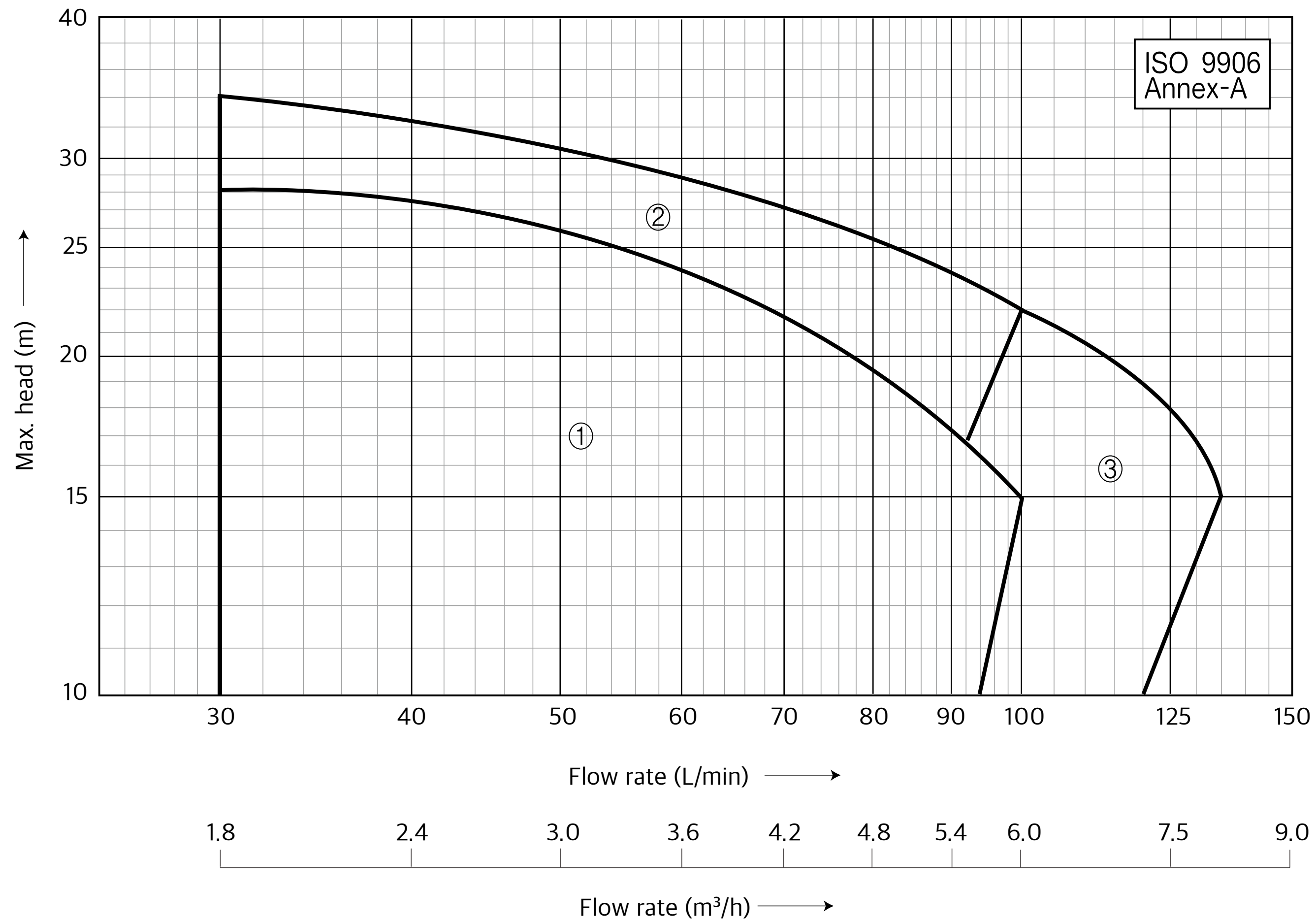
Home · Shopping mall, Building · Pressurizing warm water · Villa, Row houses · Pension, Motel · Circulating cooling water of boiler · Sprinkler in the green house

High efficiency Inverter Pumps(economic)



HIE1-80/096-P

PERFORMANCE CURVE



FEATURE

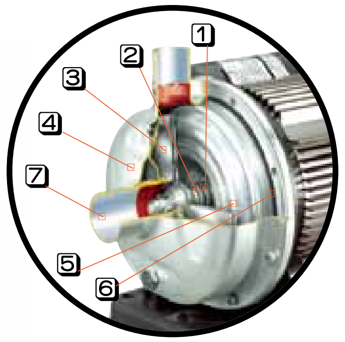
HIGH EFFICIENCY with built-in inverter

- Low pressure area requiring constant pressure
- 4 liters nitrogen tank
- Idling prevention
- Enable to use warm water up to 80℃
- High temperature mechanical seal
- Constant water supply pressure by inverter control
  (Pressure deviation : Setting pressure ±0.2kg/cm²)

SPECIFICATION

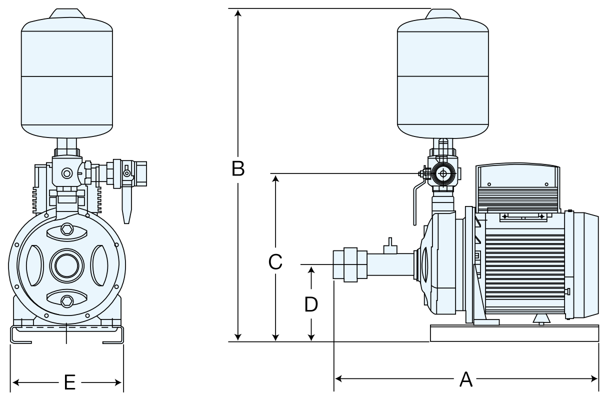
	Model / Inverter control	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D×E
①	HIE1-80/066-P	None : Single phase 220 3T : Three phase 380	0.8	26	3,900(21)	0	32	25	18	330×592×300×135×210
	HIE1-80/066-P-3T									
②	HIE1-80/096-P		1.2	33	2,700(30)				20.5	
	HIE1-80/096-P-3T									
③	HIE1-120/096-P		1.2	28	6,000(22)				20.5	
	HIE1-120/096-P-3T									

For water supply
Clear water pump

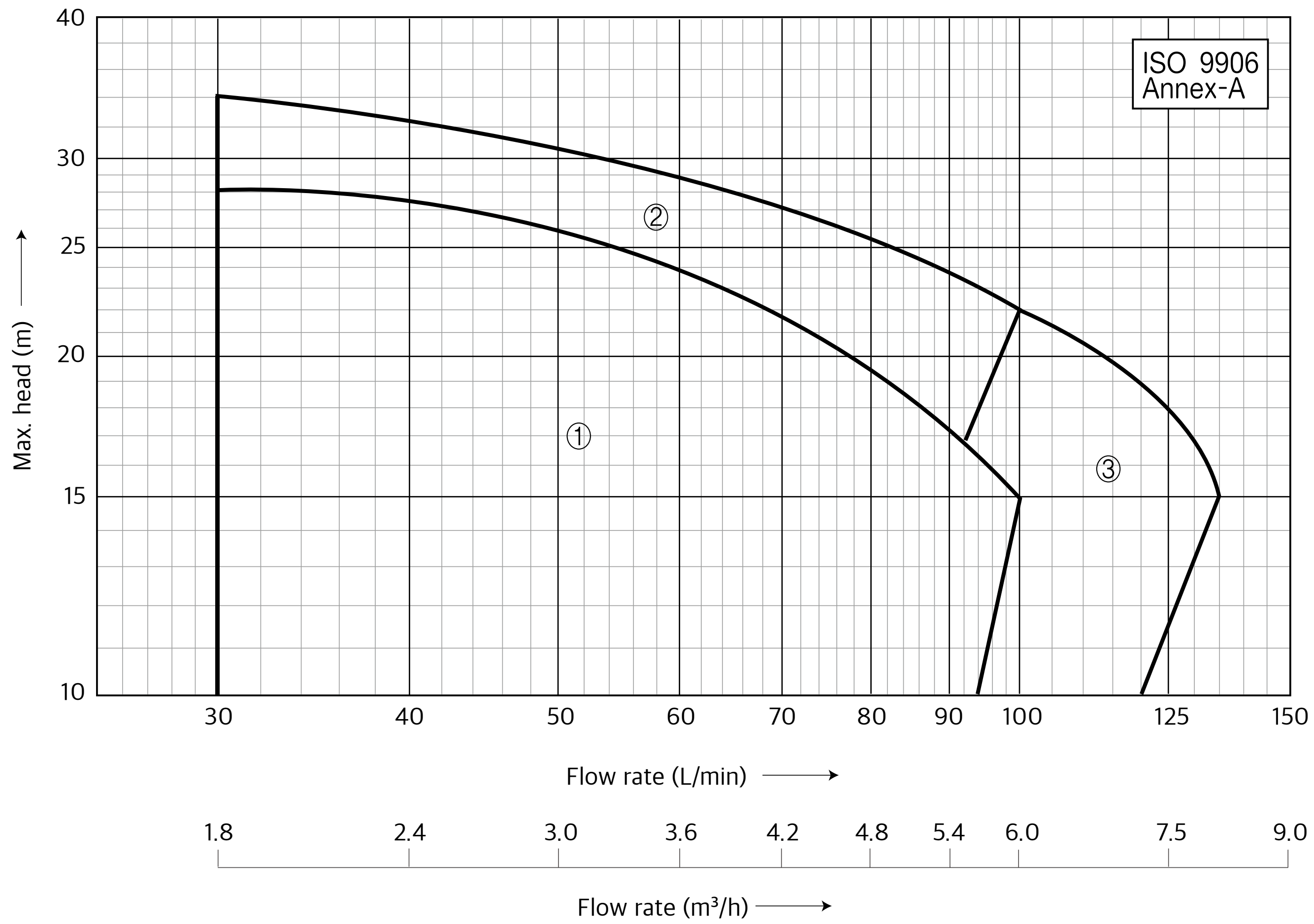


List of material	
Parts	Material
Mechanical seal	STS316+Carbon/SIO_2+High NBR
Shaft	Stainless steel(STS-316)
Impeller	Stainless steel(STS-304/316)
Casing	Stainless steel(STS-304/316)
Casing holder	
Casing packing	NBR
Pipe	Stainless steel(STS-304)

HIE1-80/066(-2T/3T/-4T)
HIE1-80/096(-2T/3T/-4T)
HIE1-120/096(-2T/3T/-4T)



PERFORMANCE CURVE



FEATURE

CONSTANT WATER SUPPLY PRESSURE
by inverter control

- Built-in individual inverter
- High temperature mechanical seal
- Idling prevention & easy operation
- Low noise, Low vibration, Constant pressure maintenance
- Constant water supply pressure by inverter control
  (Pressure deviation : Setting pressure ±0.2kg/cm²)

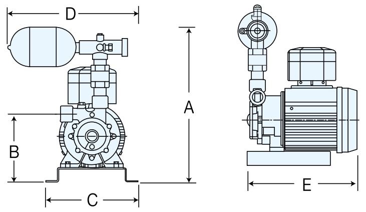
SPECIFICATION

	Model / Inverter control	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension (mm) A×B×C×D×E
①	HIE1-80/066(2T,3T,4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	0.8	26	3,900(21)	0	32	25	19	472×592×300×135×200
②	HIE1-80/096(2T,3T,4T)		1.2	33	2,700(30)				21.3	
③	HIE1-120/096(2T,3T,4T)		1.2	28	6,000(22)				21.3	

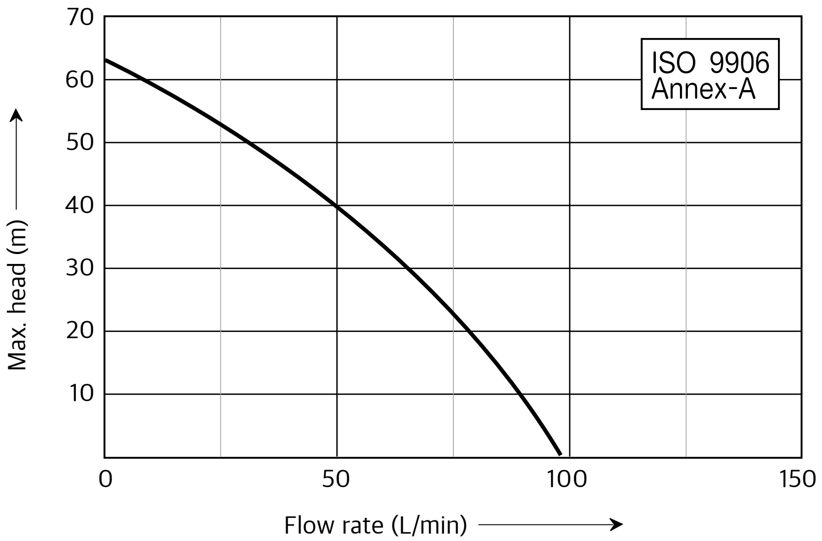
※ Three phase 440V : Configure to order

HIE1-1501-B

(Bronze casing, Brass impeller)

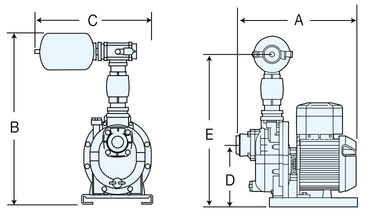


PERFORMANCE CURVE

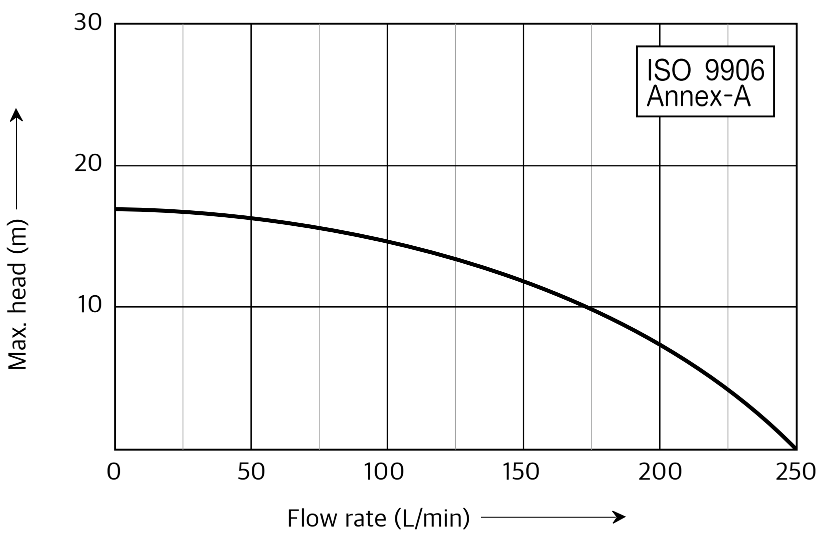


HIE1-770S

(Engineering plastic casing, Engineering plastic Impeller)



PERFORMANCE CURVE

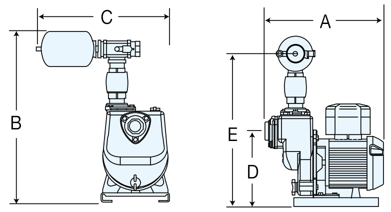


SPECIFICATION

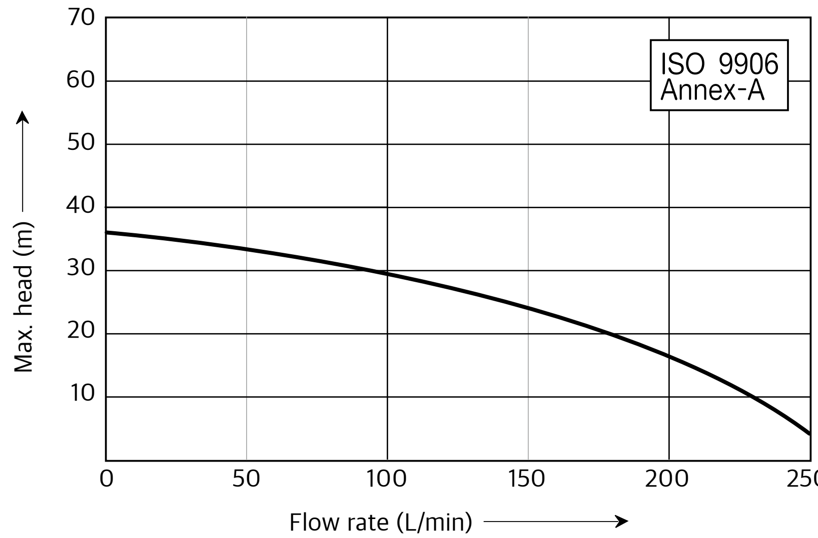
Model / Inverter control	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D×E
① HIE1-1501-B (2T,3T,4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	2	60	5,770(0.5)	0	25		22	320×197×268×334×320
② HIE1-770S (2T,3T,4T)		1	18	15,000(5)		50	40	25.3	411×567×370×209×505

HIE1-950

(Casting casing, Stainless steel impeller)

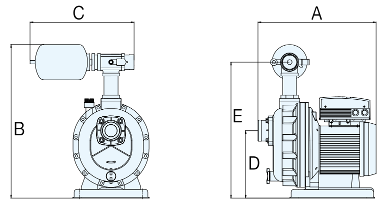


PERFORMANCE CURVE

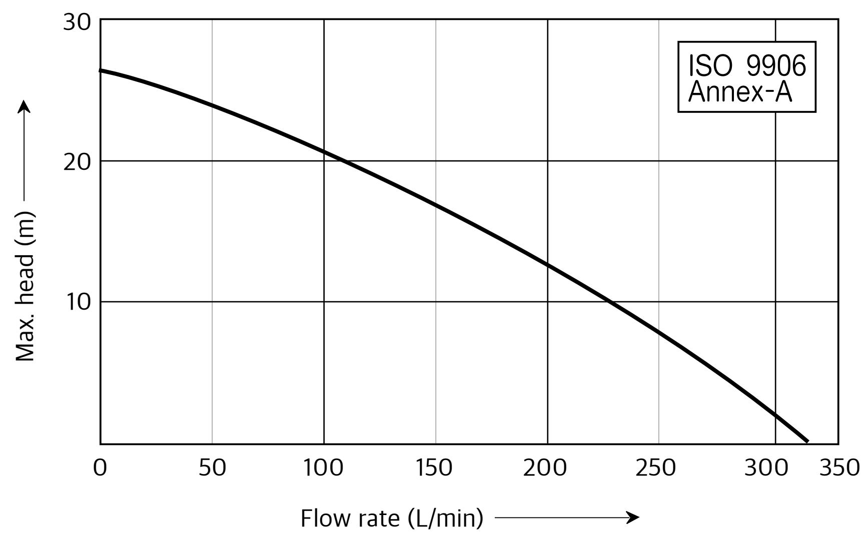


HIE1-1000SS

(Standard type : Engineering plastic casing, SSC14 Impeller)



PERFORMANCE CURVE



SPECIFICATION

Model / Inverter control	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D×E
① HIE1-950 (2T,3T,4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	30	14,100(5)	0	50	40	39	406×590×470×265×527
② HIE1-1000SS	Single phase 220	1.2	24	20,000(0.5)	6	50	40	32	410×551×450×237×478

INDIVIDUAL INVERTER BUILT-IN BOOSTER PUMPS (HORIZONTAL)

AHIE1S
AHIE2S

For water supply
Clear water pump

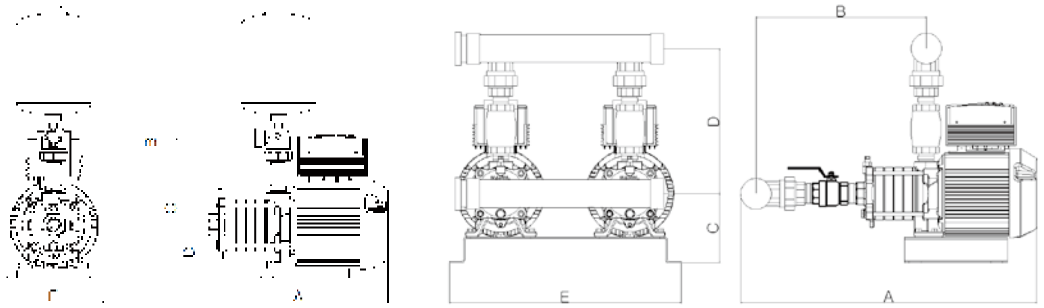
Model selection guide

A	ABSOLUTE
H	HORIZONTAL
I	INVERTER
E	EACH
1 / 2	THE NUMBER OF PUMP
S	STAINLESS STEEL
2	PIPE(2-25A, 3-32A, 4-40A)
06	IMPELLER STAGE
01	MOTOR OUTPUT(HP)
NONE	SINGLE PHASE 220V
-2T	THREE PHASE 220V
-3T	THREE PHASE 380V
-4T	THREE PHASE 440V

APPLICATION

Home
Shopping mall, Building
Pressurizing warm water
Villa, Row houses
Pension, Motel
Circulating cooling water of boiler
Sprinkler in the green house

AHIE1S-20601 AHIE2S-20601



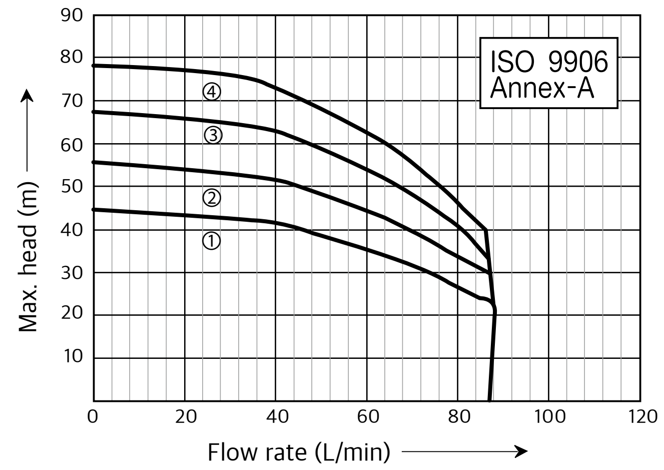
FEATURE

HIGH EFFICIENCY BUILT-IN INDIVIDUAL INVERTER

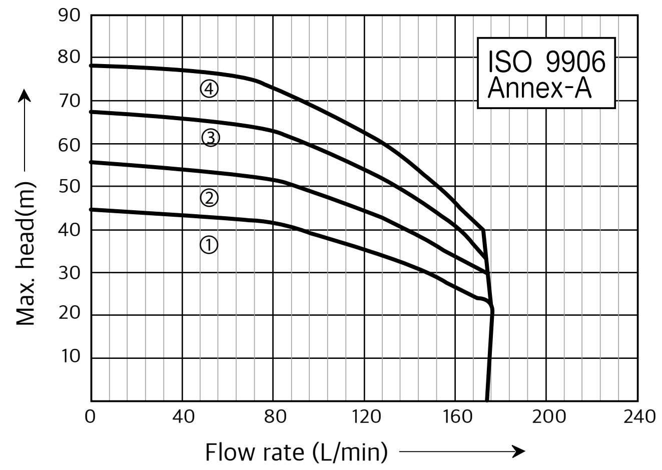
- Enable to use warm water up to 80℃
- Easy to control and set-up working pressure
- Constant water supply pressure by inverter control (Pressure deviation : Setting pressure ±0.2kg/cm²)
- Rust-proof stainless steel on water contact surface
- Flexible Union piping for various installation directions

PERFORMANCE CURVE

AHIE1S-2TYPE



AHIE2S-2TYPE



SPECIFICATION

AHIE1S-2TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Weight (kg)	Dimension(mm) A×B×C×D×E
①	AHIE1S-20401 (-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	43	6,000(0.5)	43	25	20	387×578×298×113×190×220
②	AHIE1S-20501 (-2T,-3T,-4T)			54		54		20.5	407.5×578×298×113×190×220
③	AHIE1S-20601 (-2T,-3T,-4T)		1.5	65		65		22	438×578×298×113×190×220
④	AHIE1S-20701 (-2T,-3T,-4T)			75		75		22.5	458.5×578×298×113×190×220

AHIE2S-2TYPE

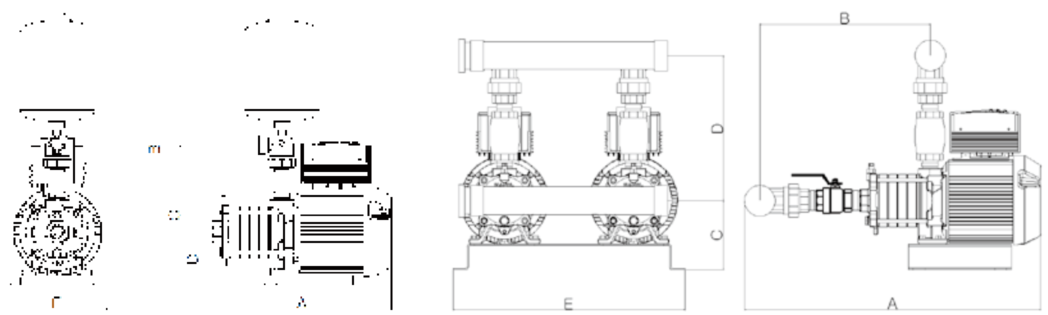
	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Weight (kg)	Dimension(mm) A×B×C×D×E
①	AHIE2S-20401 (-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	43	12,000(0.5)	43	25	42	601×364×148×310×496
②	AHIE2S-20501 (-2T,-3T,-4T)			54		54		43	622×364×148×310×496
③	AHIE2S-20601 (-2T,-3T,-4T)		1.5	65		65		46	652×364×148×310×496
④	AHIE2S-20701 (-2T,-3T,-4T)			75		75		47	673×364×148×310×496

※ Pipe diameter below 50A is screw piping type.
※ Three phase 440V : Configure to order.
※ Design and specification are subject to revise for quality improvement without notice.

INDIVIDUAL INVERTER BUILT-IN BOOSTER PUMPS (HORIZONTAL)

AHIE1S
AHIE2S

AHIE1S-30401 AHIE2S-30401



Model selection guide

A	ABSOLUTE
H	HORIZONTAL
I	INVERTER
E	EACH
1 / 2	THE NUMBER OF PUMP
S	STAINLESS STEEL
3	PIPE(2-25A, 3-32A, 4-40A)
04	IMPELLER STAGE
01	MOTOR OUTPUT(HP)
NONE	SINGLE PHASE 220V
-2T	THREE PHASE 220V
-3T	THREE PHASE 380V
-4T	THREE PHASE 440V

APPLICATION

Home
Shopping mall, Building
Pressurizing warm water
Villa, Row houses
Pension, Motel
Circulating cooling water of boiler
Sprinkler in the green house

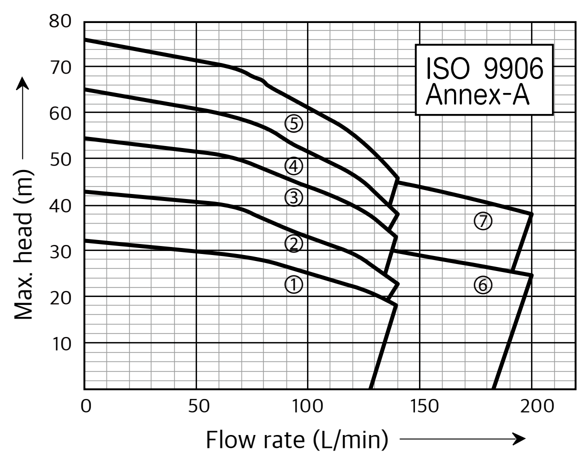
FEATURE

HIGH EFFICIENCY BUILT-IN INDIVIDUAL INVERTER

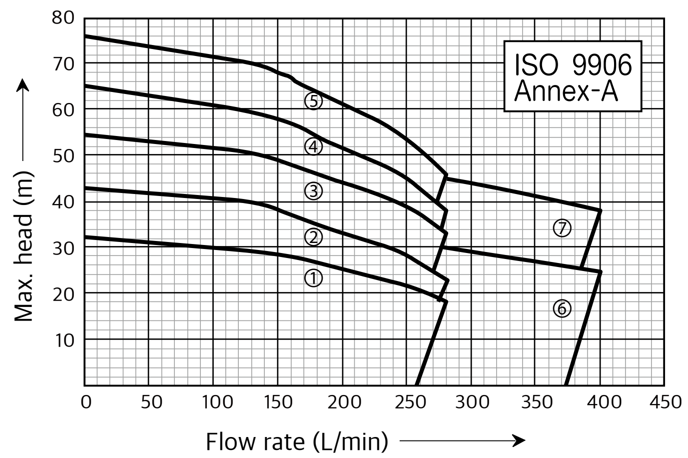
- Enable to use warm water up to 80℃
- Easy to control and set-up working pressure
- Constant water supply pressure by inverter control (Pressure deviation : Setting pressure ±0.2kg/cm²)
- Rust-proof stainless steel on water contact surface
- Flexible Union piping for various installation directions

PERFORMANCE CURVE

AHIE1S-3TYPE



AHIE2S-3TYPE



SPECIFICATION

AHIE1S-3TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Pipe (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D×E
①	AHIE1S-30301(-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	32	12,000(0.5)	32	0	32	21	382×579×299×113×220
②	AHIE1S-30401(-2T,-3T,-4T)		1.5	42				42	21.5	417×579×299×113×220
③	AHIE1S-30502(-2T,-3T,-4T)		2	53				53	24.5	447×579×299×113×220
④	AHIE1S-30602(-2T,-3T,-4T)			64				64	25	473×579×299×113×220
⑤	AHIE1S-30703-3T(-4T)		3	75				75	26.5	509×579×299×113×220

AHIE2S-3TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Pipe (A)	Suction lift (m)	Discharge head (m)	Dimension(mm) A×B×C×D×E
①	AHIE2S-30301(-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	32	24,000(0.5)	50	0	32	632×359×148×311×496
②	AHIE2S-30401(-2T,-3T,-4T)		1.5	42				42	667×385×148×311×496
③	AHIE2S-30502(-2T,-3T,-4T)		2	53				53	697×411×148×311×496
④	AHIE2S-30602(-2T,-3T,-4T)			64				64	723×437×148×311×496
⑤	AHIE2S-30703-3T(-4T)		3	75				75	759x×463×148×311×496

※ Pipe diameter below 50A is screw piping type.
※ Three phase 440V : Configure to order.

※ Design and specification are subject to revise for quality improvement without notice.

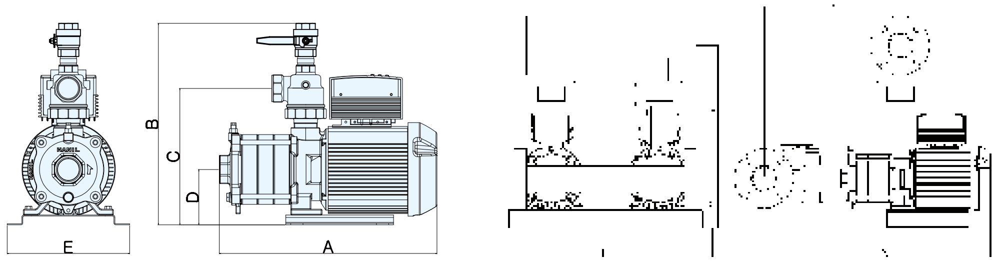
INDIVIDUAL INVERTER BUILT-IN BOOSTER PUMPS (HORIZONTAL)

AHIE1S
AHIE2S

For water supply
Clear water pump

AHIE1S-40202

AHIE2S-40202



Model selection guide

A	ABSOLUTE
H	HORIZONTAL
I	INVERTER
E	EACH
1 / 2	THE NUMBER OF PUMP
S	STAINLESS STEEL
4	PIPE(2-25A, 3-32A, 4-40A)
02	IMPELLER STAGE
02	MOTOR OUTPUT(HP)
NONE	SINGLE PHASE 220V
-2T	THREE PHASE 220V
-3T	THREE PHASE 380V
-4T	THREE PHASE 440V

APPLICATION

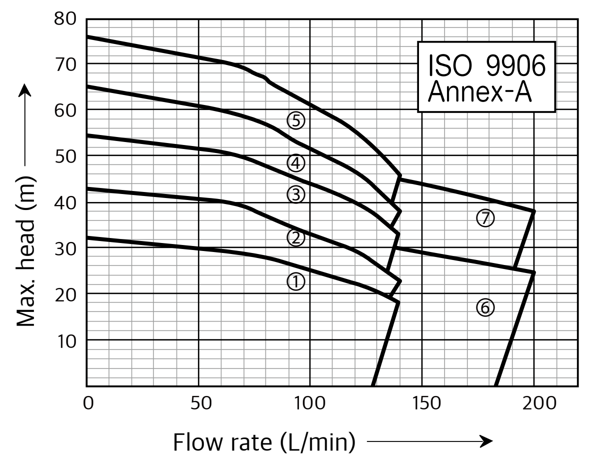
FEATURE

HIGH EFFICIENCY BUILT-IN INDIVIDUAL INVERTER

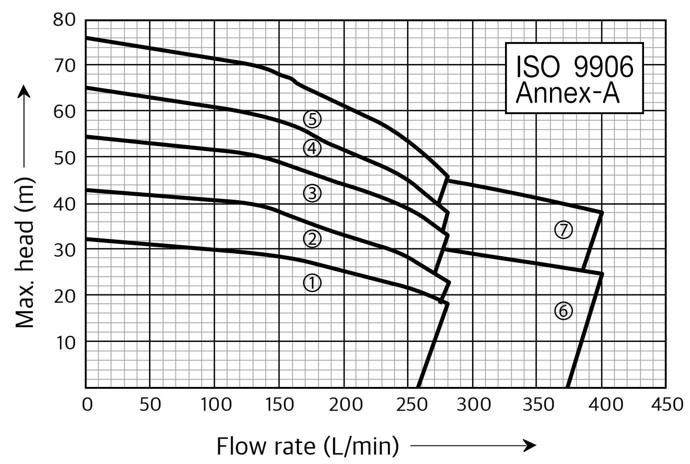
- Enable to use warm water up to 80℃
- Easy to control and set-up working pressure
- Constant water supply pressure by inverter control (Pressure deviation : Setting pressure ±0.2kg/cm²)
- Rust-proof stainless steel on water contact surface
- Flexible Union piping for various installation directions

PERFORMANCE CURVE

AHIE1S-4TYPE



AHIE2S-4TYPE



SPECIFICATION

AHIE1S-4TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Pipe (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D×E
⑥	AHIE1S-40202 (-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	2	32	18,000(0.5)	40	0	32	24	402×412×279×113×250
⑦	AHIE1S-40303-3T (-4T)		3	50				50	26	445×412×279×113×250

AHIE2S-4TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Pipe (A)	Suction lift (m)	Discharge head (m)	Dimension(mm) A×B×C×D×E
⑥	AHIE2S-40202 (-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	2	32	36,000(0.5)	65	0	32	759×404×148×393×635
⑦	AHIE2S-40303-3T (-4T)		3	50				50	759×404×148×393×635

※ Pipe diameter below 50A is screw piping type.
※ Three phase 440V : Configure to order

※ Design and specification are subject to revise for quality improvement without notice.

INDIVIDUAL INVERTER BUILT-IN BOOSTER PUMPS (HORIZONTAL)

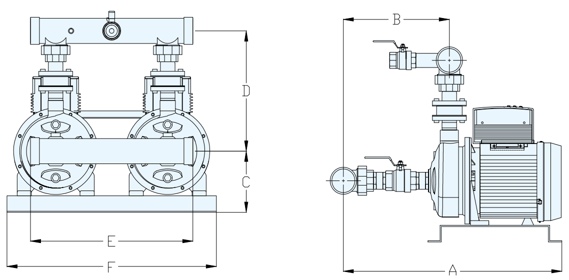
HIE2

Model selection guide

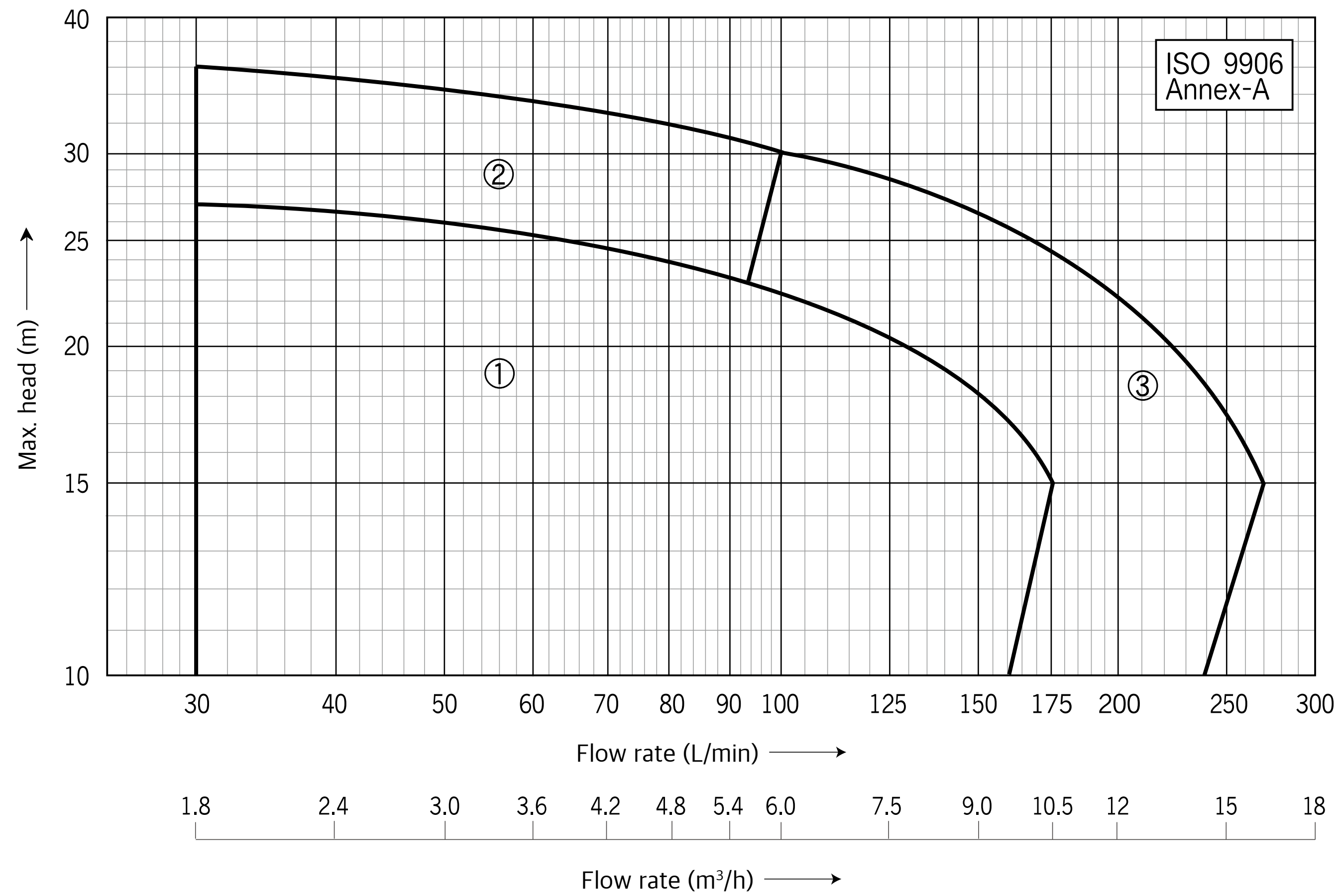
H	HANIL
I	INVERTER
E	EACH
2	THE NUMBER OF PUMP
80/096	PUMP MODEL
NONE -2T -3T -4T	SINGLE PHASE 220V THREE PHASE 220V THREE PHASE 380V THREE PHASE 440V

INVERTER BOOSTER SYSTEM

HIE2-80/066(-2T/-3T/-4T)
HIE2-80/096(-2T/-3T/-4T)
HIE2-120/096(-2T/-3T/-4T)



PERFORMANCE CURVE



APPLICATION

Home
Shopping mall, Building
Pressurizing warm water
Villa, Row houses
Pension, Motel
Circulating cooling water of boiler
Sprinkler in the green house

FEATURE

RUST-PROOF STAINLESS STEEL ON
water contact surface

- Built-in individual inverter
- Mechanical seal(STS-316)
- Idling prevention, easy to control
- Low noise, Low vibration, Constant pressure
- Constant water supply pressure by inverter control
  (Pressure deviation : Setting pressure ±0.2kg/cm²)

SPECIFICATION

	Model / Inverter control	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D×E×F
①	HIE2-80/066 (2T,3T,4T)	None : Single phase 220	0.8×2	26	7,800(21)	0	50	72.5	540×260×148×280×400×516
②	HIE2-80/096 (2T,3T,4T)	2T : Three phase 220 3T : Three phase 380	1.2×2	33	5,400(30)			77.3	540×260×148×280×400×516
③	HIE2-120/096 (2T,3T,4T)	4T : Three phase 440	1.2×2	28	12,000(22)			77.3	540×260×148×280×400×516

※ Please install socket(circuit breaker) respectively to each pump.

SENSOR CONTROL SYSTEM PUMPS

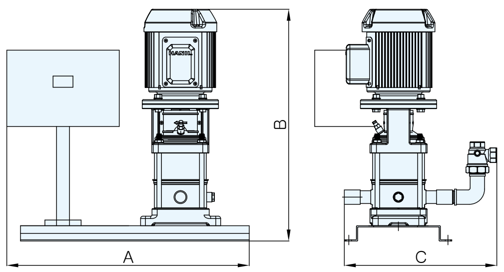
ACS1S,2S,3S TYPE

High efficiency equipment
For water supply
Clear water pump

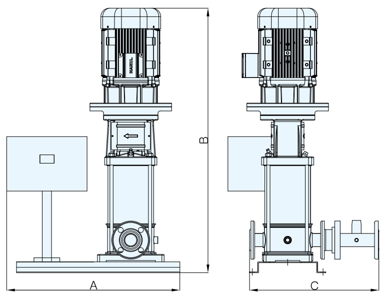
Model selection guide

A	ABSOLUTE
C	SENSOR CONTROL
S	
1, 2, 3	THE NUMBER OF PUMP
S	STAINLESS STEEL
30502	PUMP MODEL
-3T -4T	THREE PHASE 380V THREE PHASE 440V

ACS1S-TYPE

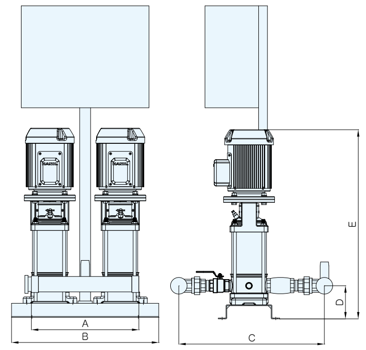


ACS1S-2, 3TYPE

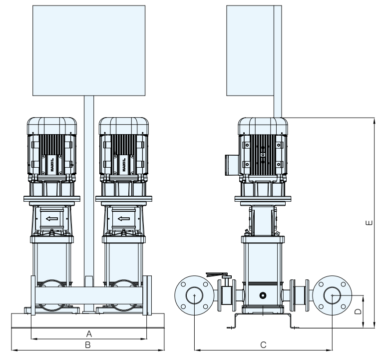


ACS1S-4, 5TYPE

ACS2S-TYPE

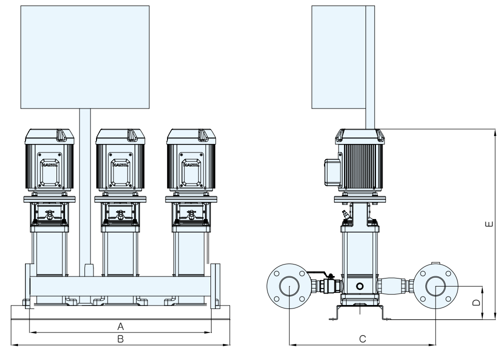


ACS2S-2, 3TYPE

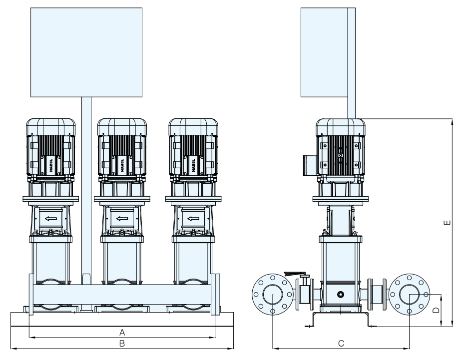


ACS2S-4, 5TYPE

ACS3S-TYPE



ACS3S-2, 3TYPE



ACS3S-4, 5TYPE

APPLICATION

Villa, Row houses
Shopping mall
Hospital
Building water supply
Construction site
Sauna

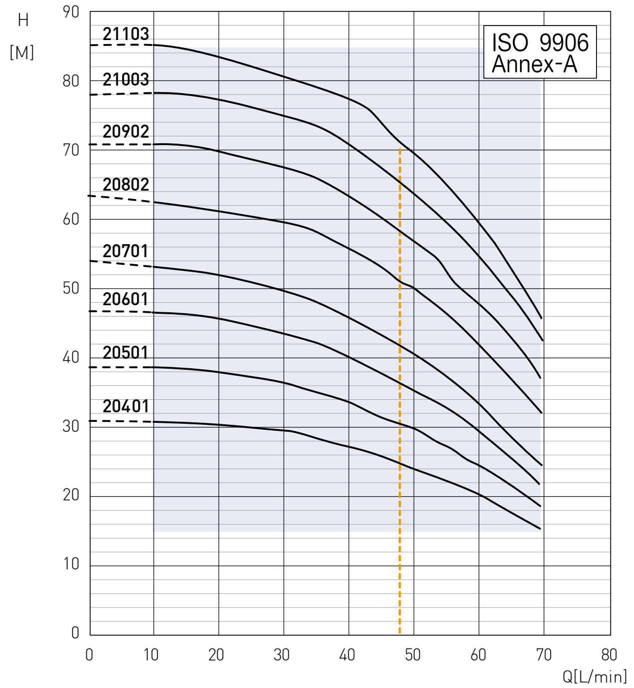
FEATURE

OPERATING NUMBER CONTROL PUMP SYSTEM

- Excellent water supply to the higher stories / Constant pressure & flow rate at each household
- Sanitary and safe by sealing up stainless steel piping system

PERFORMANCE CURVE

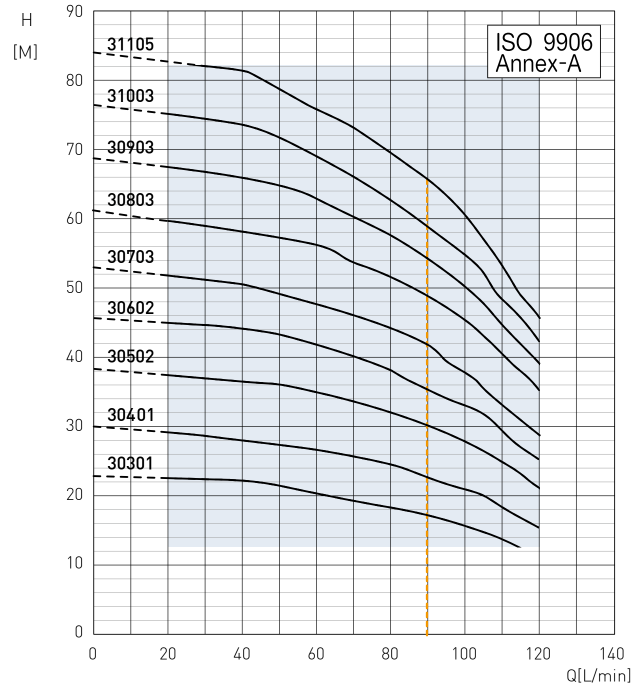
2TYPE



1PUMP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
2PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
3PUMP	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
4PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2

[m³/h]

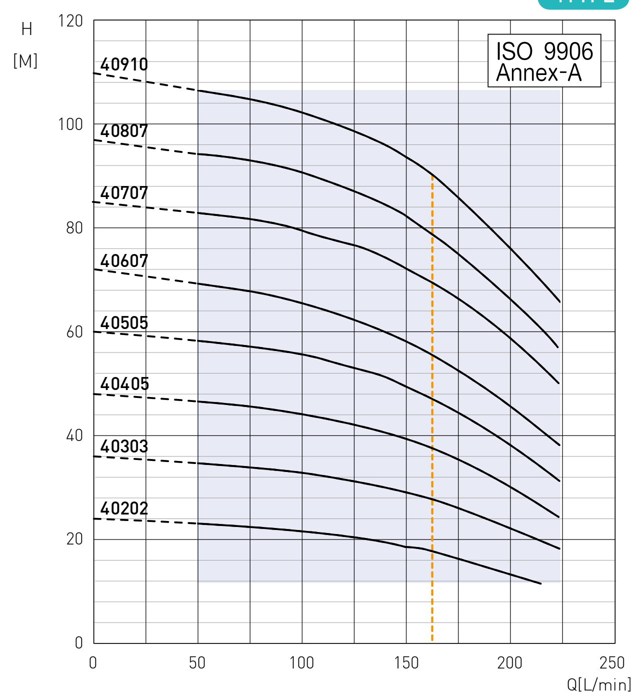
3TYPE



1PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4
2PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8
3PUMP	0	3.6	7.2	10.8	14.4	18	21.6	25.2
4PUMP	0	4.8	9.6	14.4	19.2	24	28.8	33.6

[m³/h]

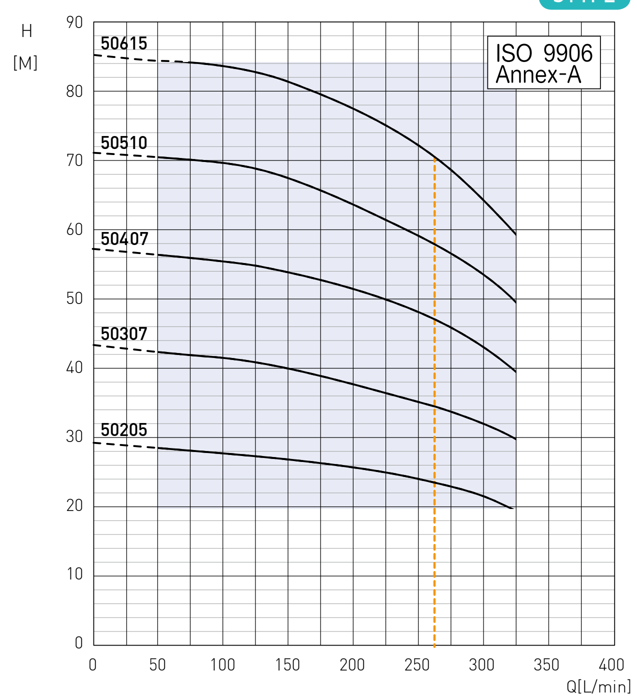
4TYPE



1PUMP	0	3	6	9	12	15
2PUMP	0	6	12	18	24	30
3PUMP	0	9	18	27	36	45
4PUMP	0	12	24	36	48	60

[m³/h]

5TYPE



1PUMP	0	3	6	9	12	15	18	21	24
2PUMP	0	6	12	18	24	30	36	42	48
3PUMP	0	9	18	27	36	45	54	63	72
4PUMP	0	12	24	36	48	60	72	84	96

[m³/h]

SPECIFICATION ACS1S-TYPE

	Model / Sensor control system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C
1	ACS1S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	31	48(25)	25	610×607×400
2	ACS1S-20501(-2T, 3T, 4T)		1	39	48(30)		610×627×400
3	ACS1S-20601(-2T, 3T, 4T)		1.5	46	48(36)		610×657×400
4	ACS1S-20701(-2T, 3T, 4T)		1.5	54	48(42)		610×677×400
5	ACS1S-20802(-2T, 3T, 4T)		2	63	48(51)		710×702×400
6	ACS1S-20902(-2T, 3T, 4T)		2	71	48(58)		710×722×400
7	ACS1S-21003-3T(4T)		3	78	48(65)		710×752×400
8	ACS1S-21103-3T(4T)		3	85	48(70)		710×772×400
9	ACS1S-30301(-2T, 3T, 4T)		1	22	88(17)	32	610×594×420
10	ACS1S-30401(-2T, 3T, 4T)		1.5	30	88(22)		610×634×420
11	ACS1S-30502(-2T, 3T, 4T)		2	38	88(29)		710×662×420
12	ACS1S-30602(-2T, 3T, 4T)		2	46	88(36)		710×687×420
13	ACS1S-30703-3T(4T)		3	53	88(42)		710×727×420
14	ACS1S-30803-3T(4T)		3	61	88(48)		710×752×420
15	ACS1S-30903-3T(4T)		3	69	88(53)		710×777×420
16	ACS1S-31003-3T(4T)		3	76	88(60)		710×802×420
17	ACS1S-31105-3T(4T)		5	83	88(65)		800×902×420
18	ACS1S-40202(-2T, 3T, 4T)		2	24	160(18)	40	710×698×475
19	ACS1S-40303-3T(4T)		3	36	160(27)		710×746×475
20	ACS1S-40405-3T(4T)		5	48	160(36)		800×877×475
21	ACS1S-40505-3T(4T)		5	60	160(46)		800×909×475
22	ACS1S-40607-3T(4T)		7.5	71	160(55)		800×963×475
23	ACS1S-40707-3T(4T)		7.5	85	160(70)		800×995×475
24	ACS1S-40807-3T(4T)		7.5	97	160(81)		800×1027×475
25	ACS1S-40910-3T(4T)		10	109	160(91)		800×1112×475
26	ACS1S-50205-3T(4T)		5	29	264(25)	50	710×832×495
27	ACS1S-50307-3T(4T)		7.5	45	264(37)		710×898×495
28	ACS1S-50407-3T(4T)		7.5	57	264(51)		710 x 943×495
29	ACS1S-50510-3T(4T)		10	71	264(63)		800×1041×495
30	ACS1S-50615-3T(4T)		15	86	264(77)		800×1086×495

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order.
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

ACS1S,2S,3S-TYPE

SPECIFICATION ACS2S-TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm)
	Sensor control system						A×B×C×D×E
1	ACS2S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1×2	31	96(25)	40	400×576×630×130×622
2	ACS2S-20501(-2T, 3T, 4T)		1×2	39	96(30)		400×576×630×130×641
3	ACS2S-20601(-2T, 3T, 4T)		1.5×2	46	96(36)		400×576×630×130×672
4	ACS2S-20701(-2T, 3T, 4T)		1.5×2	54	96(42)		400×576×630×130×692
5	ACS2S-20802(-2T, 3T, 4T)		2×2	63	96(51)		400×576×630×130×717
6	ACS2S-20902(-2T, 3T, 4T)		2×2	71	96(58)		400×576×630×130×737
7	ACS2S-21003-3T(4T)		3×2	78	96(65)		400×576×630×130×767
8	ACS2S-21103-3T(4T)		3×2	85	96(70)		400×576×630×130×787
9	ACS2S-30301(-2T, 3T, 4T)		1×2	22	176(17)	50	405×576×660×130×609
10	ACS2S-30401(-2T, 3T, 4T)		1.5×2	30	176(22)		405×576×660×130×649
11	ACS2S-30502(-2T, 3T, 4T)		2×2	38	176(29)		405×576×660×130×677
12	ACS2S-30602(-2T, 3T, 4T)		2×2	46	176(36)		405×576×660×130×702
13	ACS2S-30703-3T(4T)		3×2	53	176(42)		405×576×660×130×742
14	ACS2S-30803-3T(4T)		3×2	61	176(48)		405×576×660×130×767
15	ACS2S-30903-3T(4T)		3×2	69	176(53)		405×576×660×130×792
16	ACS2S-31003-3T(4T)		3×2	76	176(60)		405×576×660×130×817
17	ACS2S-31105-3T(4T)		5×2	83	176(65)		405×576×660×130×917
18	ACS2S-40202(-2T, 3T, 4T)		2×2	24	320(18)	65	515×680×770×135×713
19	ACS2S-40303-3T(4T)		3×2	36	320(27)		515×680×770×135×761
20	ACS2S-40405-3T(4T)		5×2	48	320(36)		515×680×770×135×892
21	ACS2S-40505-3T(4T)		5×2	60	320(46)		515×680×770×135×924
22	ACS2S-40607-3T(4T)		7.5×2	71	320(55)		515×680×770×135×978
23	ACS2S-40707-3T(4T)		7.5×2	85	320(70)		515×680×770×135×1010
24	ACS2S-40807-3T(4T)		7.5×2	97	320(81)		515×680×770×135×1042
25	ACS2S-40910-3T(4T)		10×2	109	320(91)		515×680×770×135×1127
26	ACS2S-50205-3T(4T)		5×2	29	528(25)	80	515×680×870×145×847
27	ACS2S-50307-3T(4T)		7.5×2	45	528(37)		515×680×870×145×913
28	ACS2S-50407-3T(4T)		7.5×2	57	528(51)		515×680×870×145×958
29	ACS2S-50510-3T(4T)		10×2	71	528(63)		515×680×870×145×1056
30	ACS2S-50615-3T(4T)		15×2	86	528(77)		515×680×870×145×1101

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order.
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

SPECIFICATION ACS3S-TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm)
	Sensor control system						A×B×C×D×E
1	ACS3S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1×3	31	144(25)	50	780×852×630×130×622
2	ACS3S-20501(-2T, 3T, 4T)		1×3	39	144(30)		780×852×630×130×641
3	ACS3S-20601(-2T, 3T, 4T)		1.5×3	46	144(36)		780×852×630×130×672
4	ACS3S-20701(-2T, 3T, 4T)		1.5×3	54	144(42)		780×852×630×130×692
5	ACS3S-20802(-2T, 3T, 4T)		2×3	63	144(51)		780×852×630×130×717
6	ACS3S-20902(-2T, 3T, 4T)		2×3	71	144(58)		780×852×630×130×737
7	ACS3S-21003-3T(4T)		3×3	78	144(65)		780×852×630×130×767
8	ACS3S-21103-3T(4T)		3×3	85	144(70)		780×852×630×130×787
9	ACS3S-30301(-2T, 3T, 4T)		1×3	22	264(17)	65	740×852×660×130×609
10	ACS3S-30401(-2T, 3T, 4T)		1.5×3	30	264(22)		740×852×660×130×649
11	ACS3S-30502(-2T, 3T, 4T)		2×3	38	264(29)		740×852×660×130×677
12	ACS3S-30602(-2T, 3T, 4T)		2×3	46	264(36)		740×852×660×130×702
13	ACS3S-30703-3T(4T)		3×3	53	264(42)		740×852×660×130×742
14	ACS3S-30803-3T(4T)		3×3	61	264(48)		740×852×660×130×767
15	ACS3S-30903-3T(4T)		3×3	69	264(53)		740×852×660×130×792
16	ACS3S-31003-3T(4T)		3×3	76	264(60)		740×852×660×130×817
17	ACS3S-31105-3T(4T)		5×3	83	264(65)		740×852×660×130×917
18	ACS3S-40202(-2T, 3T, 4T)		2×3	24	480(18)	80	835×1000×770×135×713
19	ACS3S-40303-3T(4T)		3×3	36	480(27)		835×1000×770×135×761
20	ACS3S-40405-3T(4T)		5×3	48	480(36)		835×1000×770×135×892
21	ACS3S-40505-3T(4T)		5×3	60	480(46)		835×1000×770×135×924
22	ACS3S-40607-3T(4T)		7.5×3	71	480(55)		835×1000×770×135×978
23	ACS3S-40707-3T(4T)		7.5×3	85	480(70)		835×1000×770×135×1010
24	ACS3S-40807-3T(4T)		7.5×3	97	480(81)		835×1000×770×135×1042
25	ACS3S-40910-3T(4T)		10×3	109	480(91)		835×1000×770×135×1127
26	ACS3S-50205-3T(4T)		5×3	29	792(25)	100	835×1000×870×145×847
27	ACS3S-50307-3T(4T)		7.5×3	45	792(37)		835×1000×870×145×913
28	ACS3S-50407-3T(4T)		7.5×3	57	792(51)		835×1000×870×145×958
29	ACS3S-50510-3T(4T)		10×3	71	792(63)		835×1000×870×145×1056
30	ACS3S-50615-3T(4T)		15×3	86	792(77)		835×1000×870×145×1101

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order.
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

BOOSTER PUMPS

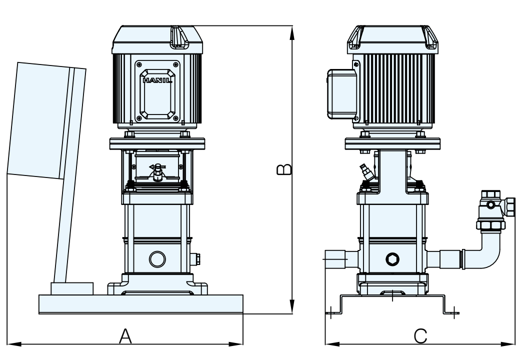
AC1S

For water supply
Clear water pump

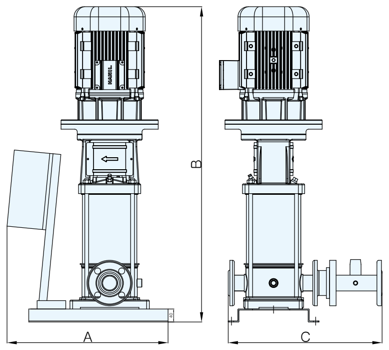
Model selection guide

A	ABSOLUTE
C	CONTROL
1	THE NUMBER OF PUMP
S	STAINLESS STEEL
30502	PUMP MODEL
-3T -4T	THREE PHASE 380V THREE PHASE 440V

AC1S-TYPE



AC1S-2, 3TYPE



AC1S-4, 5TYPE

APPLICATION

Villa, Row houses
Shopping mall
Industrial water
Car wash
Construction site
Sauna

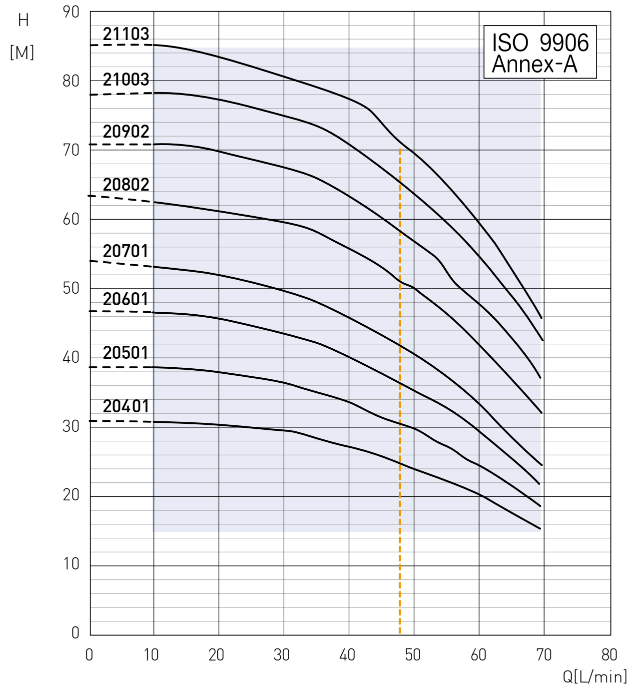
FEATURE

SELECTABLE AUTOMATIC/MANUAL OPERATION

- Built-in motor protective device & thermal protective device
- Pressure deviation : Designated pressure ±1.0kg/cm²(Pressure switch)

PERFORMANCE CURVE

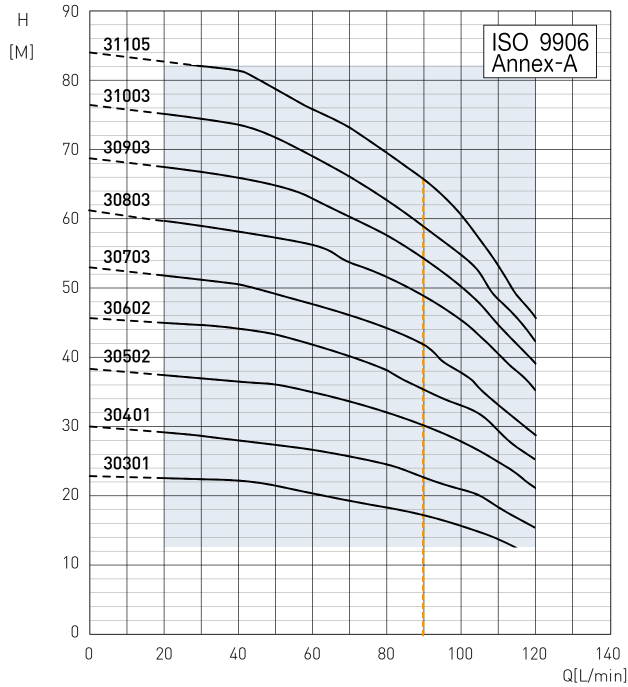
2TYPE



Q[L/min]	0	10	20	30	40	50	60	70	80
1PUMP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
2PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
3PUMP	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
4PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2

[m³/h]

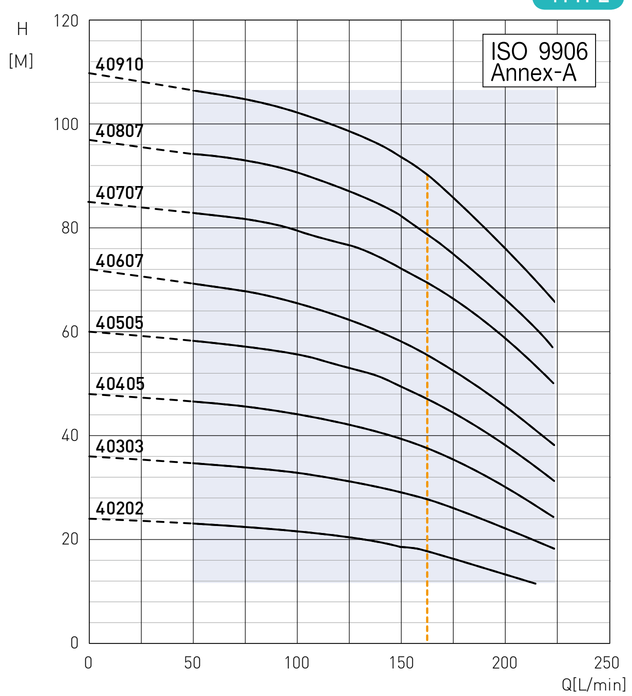
3TYPE



Q[L/min]	0	20	40	60	80	100	120	140
1PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4
2PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8
3PUMP	0	3.6	7.2	10.8	14.4	18	21.6	25.2
4PUMP	0	4.8	9.6	14.4	19.2	24	28.8	33.6

[m³/h]

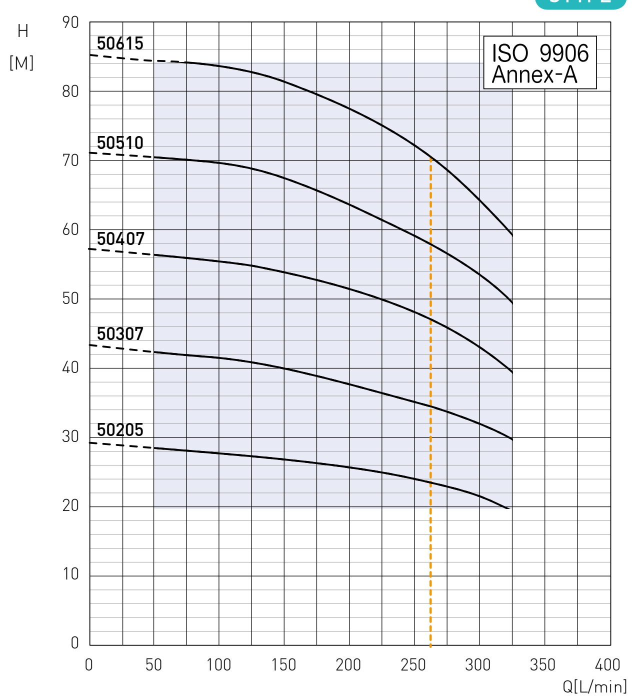
4TYPE



Q[L/min]	0	50	100	150	200	250
1PUMP	0	3	6	9	12	15
2PUMP	0	6	12	18	24	30
3PUMP	0	9	18	27	36	45
4PUMP	0	12	24	36	48	60

[m³/h]

5TYPE



Q[L/min]	0	50	100	150	200	250	300	350	400
1PUMP	0	3	6	9	12	15	18	21	24
2PUMP	0	6	12	18	24	30	36	42	48
3PUMP	0	9	18	27	36	45	54	63	72
4PUMP	0	12	24	36	48	60	72	84	96

[m³/h]

AC1S

SPECIFICATION

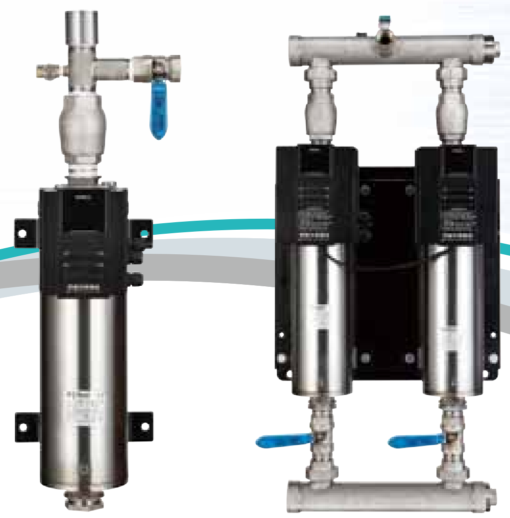
	Model Control system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C
1	AC1S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	31	48(25)	25	610×607×400
2	AC1S-20501(-2T, 3T, 4T)		1	39	48(30)		610×627×400
3	AC1S-20601(-2T, 3T, 4T)		1.5	46	48(36)		610×657×400
4	AC1S-20701(-2T, 3T, 4T)		1.5	54	48(42)		610×677×400
5	AC1S-20802(-2T, 3T, 4T)		2	63	48(51)		710×702×400
6	AC1S-20902(-2T, 3T, 4T)		2	71	48(58)		710×722×400
7	AC1S-21003-3T(4T)		3	78	48(65)		710×752×400
8	AC1S-21103-3T(4T)		3	85	48(70)		710×772×400
9	AC1S-30301(-2T, 3T, 4T)		1	22	88(17)	32	610×594×420
10	AC1S-30401(-2T, 3T, 4T)		1.5	30	88(22)		610×634×420
11	AC1S-30502(-2T, 3T, 4T)		2	38	88(29)		710×662×420
12	AC1S-30602(-2T, 3T, 4T)		2	46	88(36)		710×687×420
13	AC1S-30703-3T(4T)		3	53	88(42)		710×727×420
14	AC1S-30803-3T(4T)		3	61	88(48)		710×752×420
15	AC1S-30903-3T(4T)		3	69	88(53)		710×777×420
16	AC1S-31003-3T(4T)		3	76	88(60)		710×802×420
17	AC1S-31105-3T(4T)		5	83	88(65)		800×902×420
18	AC1S-40202(-2T, 3T, 4T)		2	24	160(18)	40	710×698×475
19	AC1S-40303-3T(4T)		3	36	160(27)		710×746×475
20	AC1S-40405-3T(4T)		5	48	160(36)		800×877×475
21	AC1S-40505-3T(4T)		5	60	160(46)		800×909×475
22	AC1S-40607-3T(4T)		7.5	71	160(55)		800×963×475
23	AC1S-40707-3T(4T)		7.5	85	160(70)		800×995×475
24	AC1S-40807-3T(4T)		7.5	97	160(81)		800×1027×475
25	AC1S-40910-3T(4T)		10	109	160(91)		800×1112×475
26	AC1S-50205-3T(4T)		5	29	264(25)	50	710×832×495
27	AC1S-50307-3T(4T)		7.5	45	264(37)		710×898×495
28	AC1S-50407-3T(4T)		7.5	57	264(51)		710×943×495
29	AC1S-50510-3T(4T)		10	71	264(63)		800×1041×495
30	AC1S-50615-3T(4T)		15	86	264(77)		800×1086×495

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

Hanil

INVERTER BOOSTER SYSTEM

For water supply KC Clear water pump



Individual Inverter Built-in Line Pumps

VLIE1S, VLIE2S

- ◇ Save up installation space
- ◇ Rust-proof and sanitary water by all stainless steel
- ◇ Perfect motor protection by dual mechanical seal structure
- ◇ Easy to replace plug type of power-line and switch
- ◇ Automatic cooling(Water cooling type) and low noise operation

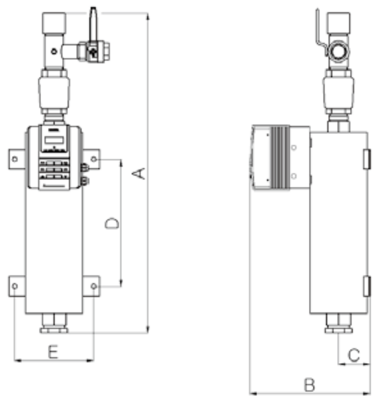
INDIVIDUAL INVERTER BUILT-IN LINE PUMPS

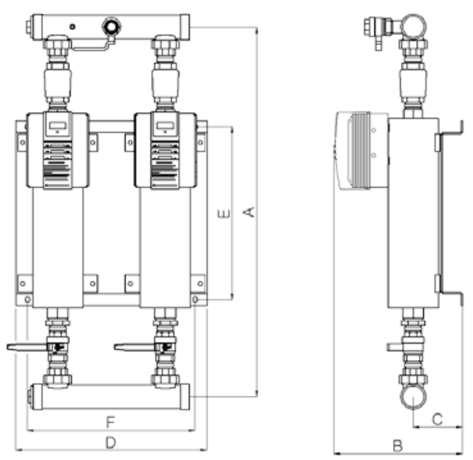
VLIE1S
VLIE2S

VLIE1S, VLIE2S

Model selection guide

VL	VL-TYPE PUMP
I	INVERTER
E	EACH
1, 2	THE NUMBER OF PUMP
S	STAINLESS STEEL
5	FLOW RATE(5TON)
4	STAGE





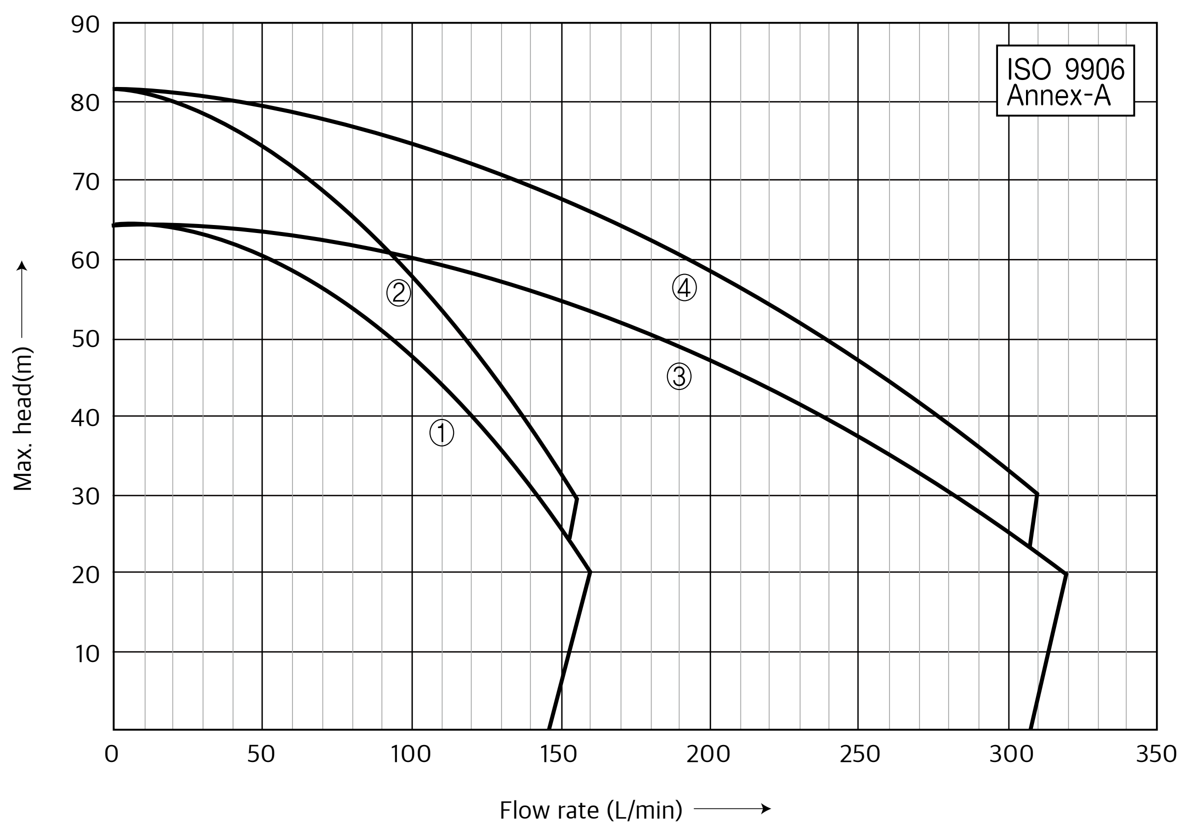
APPLICATION

Pressurizing water
Water supply
Waste water & Sprinkler
Fountain

FEATURE

- Save up installation space
- Rust-proof and sanitary water by all stainless steel
- Perfect motor protection by dual mechanical seal structure
- Easy to replace plug type of power-line and switch
- Automatic cooling(Water cooling type) and low noise operation

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Suction lift (m)	Discharge head (m)	Dimension(mm) A×B×C×D×E×F
①	VLIE1S-5/4(-3T)	None : Single phase 220V -3T : Three phase 380V	1.5	65	6,000(45)	32	0	65	730×275×70×290×180
②	VLIE1S-5/5-3T		2	82	6,000(55)		0	82	805×275×70×290×180
③	VLIE2S-5/4(-3T)		1.5	65	12,000(45)	50	0	65	875×330×125×490×370×430
④	VLIE2S-5/5-3T		2	82	12,000(55)		0	82	950×330×125×490×445×430

※ Design and specification are subject to revise for quality improvement without notice.

BOOSTER SYSTEM

High Efficiency Booster Pumps(Vertical)

AVS / AVG

- ◇ High efficiency
- ◇ Mechanical seal for high pressure
- ◇ Stainless steel impeller(None of pressure loss at high temperature & pressure)
- ◇ Rust-proof stainless steel on water contact surface
- ◇ Easy to disassemble and install pump by cartridge seal type(Only for 4,5 type)

HIGH EFFICIENCY BOOSTER PUMPS (VERTICAL)

AVS
AVG

High efficiency equipment

For water supply
Clear water pump

24 Hours
Delivery Guarantee Only Domestic Sales (S. Korea)

Model selection guide

A	ABSOLUTE
V	VERTICAL
S(G)	STAINLESS STEEL (GRAY CAST IRON)
3	SUCTION & DISCHARGE DIAMETER
07	IMPELLER STAGE
03	MOTOR OUTPUT(HP)
NONE -T -4T	SINGLE PHASE 220V THREE PHASE 220V/380V THREE PHASE 440V

APPLICATION

Waste water
Manufacturing machine
Cooling tower water supply
Building equipment
Cleaning machine
Agriculture & Livestock industry

Rust-proof stainless steel

AVS-40505-T

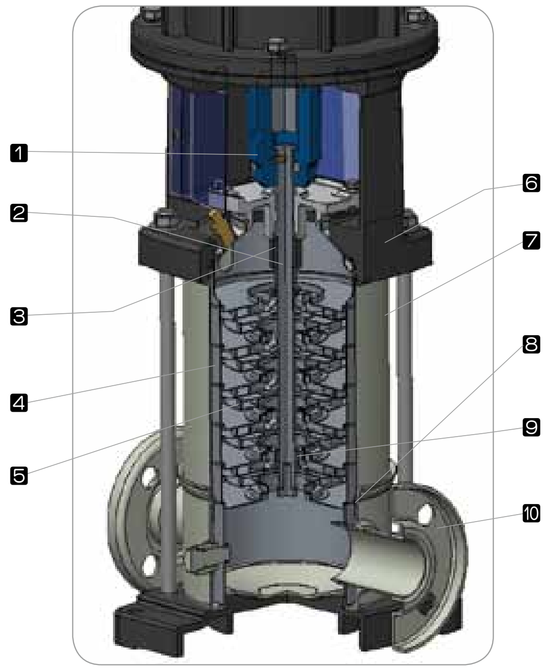
Light weight / Compact
(All stainless steel)

- Motor Protection Class : IP55(over 5HP)
- Water temperature for pump : below 40℃
- High quality and efficiency by precision manufacture for parts

Low noise / Low vibration

- Enable to assembly and disassembly the pump without dismantling the pipe

Main parts



List of material	
Parts	Material
1 Coupling	SM45C
2 Shaft	Stainless steel (STS-316)
3 Mechanical seal	Carbon + SiC
4 Guide vane	Stainless steel (STS-304)
5 Impeller	Stainless steel (STS-304)
6 Holder	Gray cast iron
7 Pump case	Stainless steel (STS-304)
8 Pump case oring	Rubber(NBR)
9 Bearing	Hard metal
10 Casing	Stainless steel (STS-304)

※ AVG-Type : Casting casing + oval flange

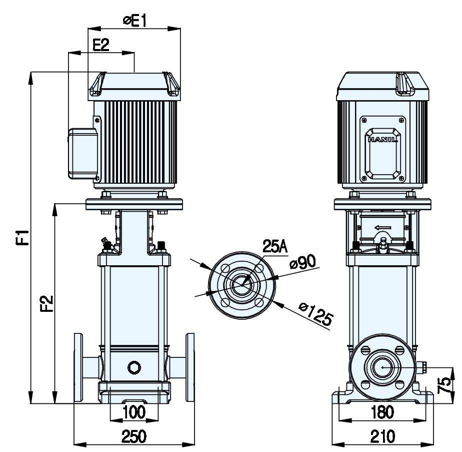
FEATURE

HIGH EFFICIENCY

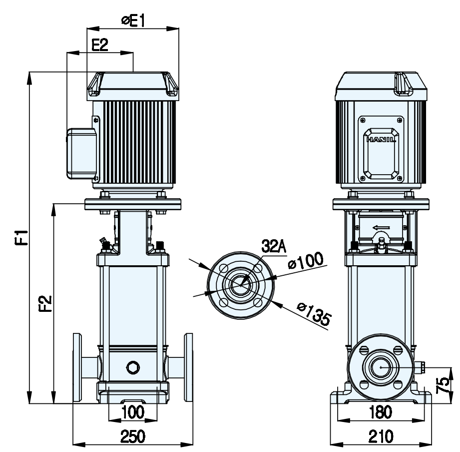
- Rust-proof stainless steel on water contact surface
- Mechanical seal for high pressure
- Stainless steel impeller

OUTSIDE VIEW

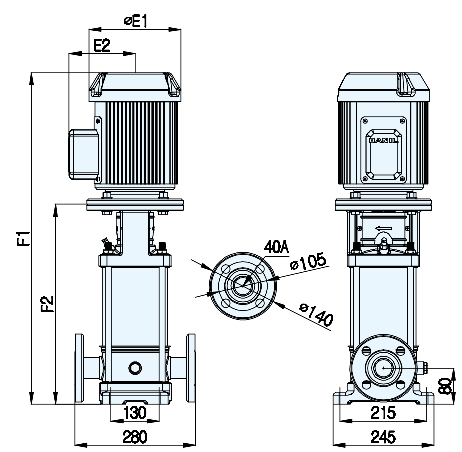
AVS-2TYPE



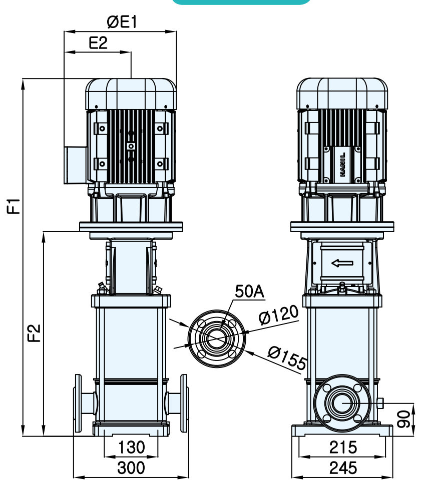
AVS-3TYPE



AVS-4TYPE



AVS-5TYPE

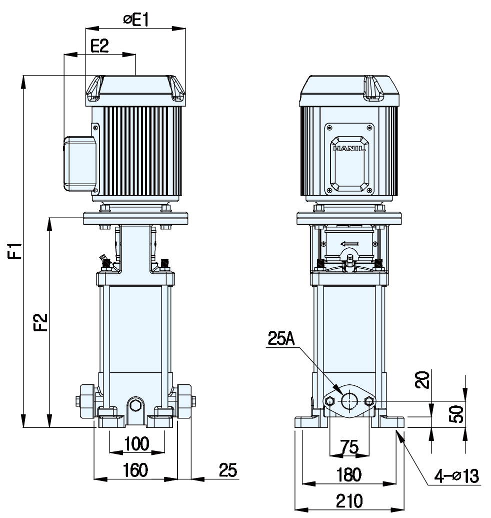


FEATURE

- Stainless steel impeller
- Cartridge seal type(Only for 4,5 type)
- Mechanical seal for high pressure

OUTSIDE VIEW

AVG-2TYPE



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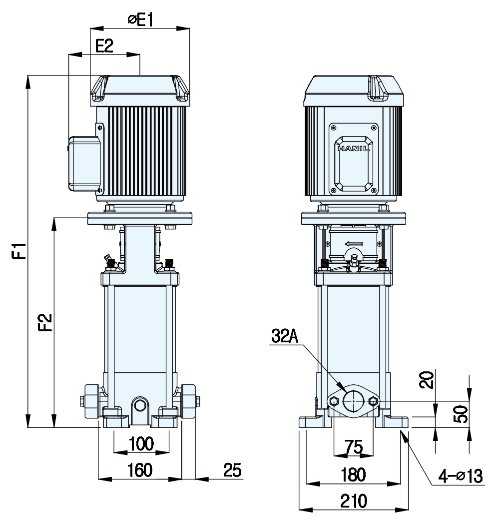
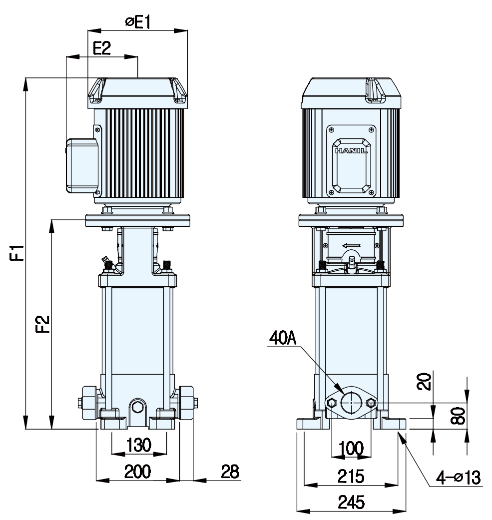
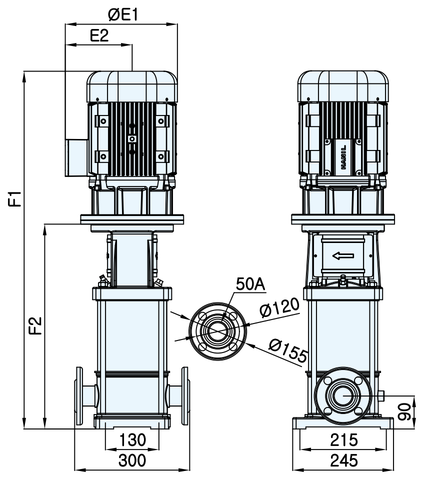


AVG-4TYPE

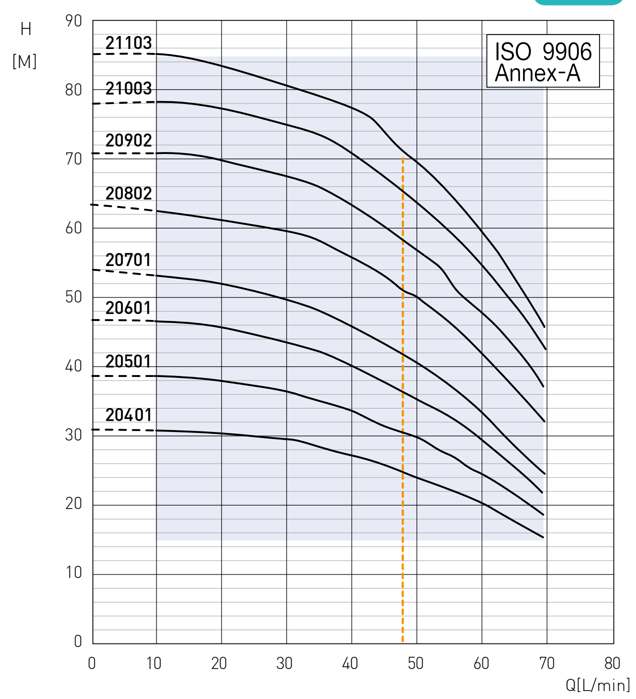


AVG-5TYPE



PERFORMANCE CURVE

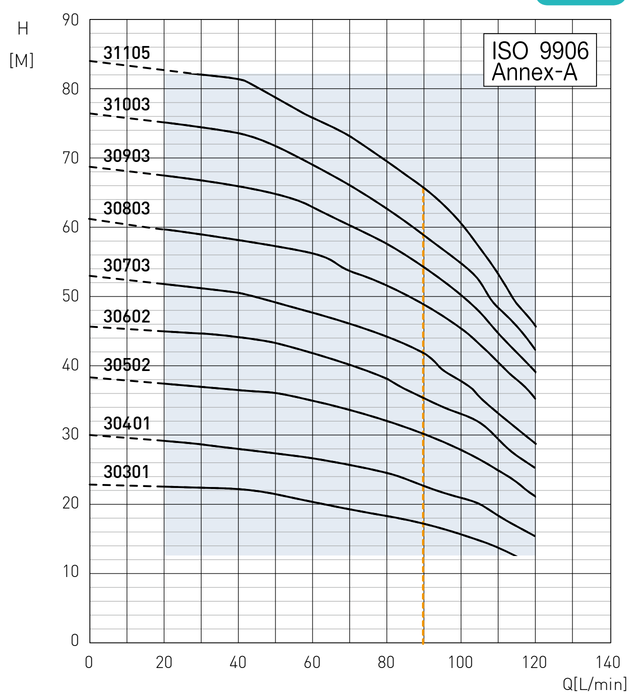
2TYPE



1PUMP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
2PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
3PUMP	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
4PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2

[m^3/h]

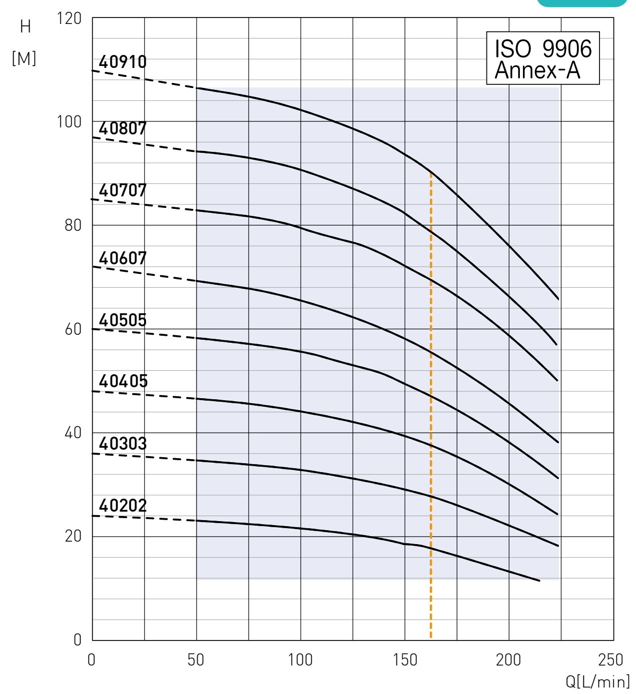
3TYPE



1PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4
2PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8
3PUMP	0	3.6	7.2	10.8	14.4	18	21.6	25.2
4PUMP	0	4.8	9.6	14.4	19.2	24	28.8	33.6

[m^3/h]

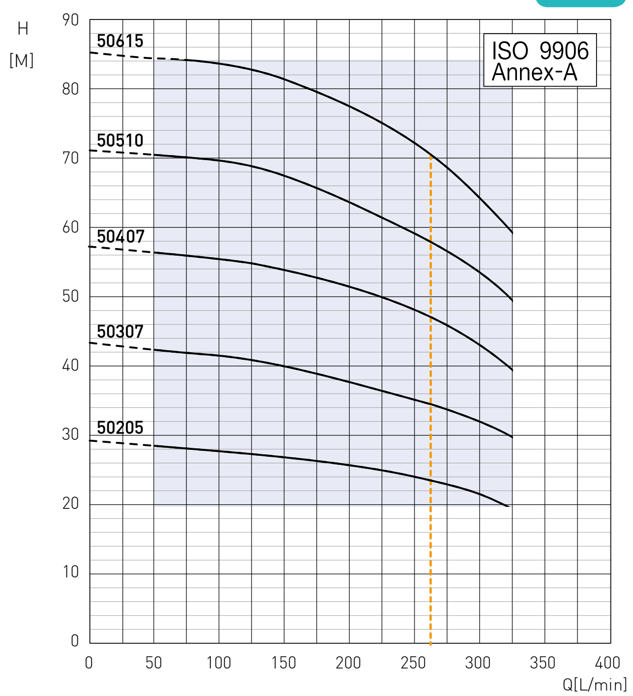
4TYPE



1PUMP	0	3	6	9	12	15
2PUMP	0	6	12	18	24	30
3PUMP	0	9	18	27	36	45
4PUMP	0	12	24	36	48	60

[m^3/h]

5TYPE



1PUMP	0	3	6	9	12	15	18	21	24
2PUMP	0	6	12	18	24	30	36	42	48
3PUMP	0	9	18	27	36	45	54	63	72
4PUMP	0	12	24	36	48	60	72	84	96

[m^3/h]

SPECIFICATION

AVS-2TYPE

Model		Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	Dimension(mm) F1	F2	E1	E2
①	AVS-20401	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	1	31	4,800(2)	4	25	39	559.5	320	190	137
	AVS-20401-T								567.5			
	AVS-20401-4T											
②	AVS-20501			39		5		39.5	579.5	340		
	AVS-20501-T								587.5			
	AVS-20501-4T											
③	AVS-20601		1.5	46		6		42.5	614.5	360		
	AVS-20601-T							41.5	617.5			
	AVS-20601-4T											
④	AVS-20701			54		7		43	634.5	380		
	AVS-20701-T							42	637.5			
	AVS-20701-4T											
⑤	AVS-20802		2	63		8		45.5	672.5	400		
	AVS-20802-T							45	662.5			
	AVS-20802-4T											
⑥	AVS-20902			71		9		46	692.5	420		
	AVS-20902-T							45.5	682.5			
	AVS-20902-4T											
⑦	AVS-21003-T		3	78		10		49	712.5	440		
	AVS-21003-4T											
⑧	AVS-21103-T			85		11		49.5	732.5	460		
	AVS-21103-4T											

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVS-3TYPE

Model		Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	Dimension(mm) F1	F2	E1	E2
①	AVS-30301	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	1	22	9,600(2)	3	32	39	554.5	315	190	137
	AVS-30301-T								562.5			
	AVS-30301-4T											
②	AVS-30401		1.5	30		4		42.5	594.5	340		
	AVS-30401-T							41.5	597.5			
	AVS-30401-4T											
③	AVS-30502		2	38		5		45	637.5	365		
	AVS-30502-T							44.5	627.5			
	AVS-30502-4T											
④	AVS-30602			46		6		45.5	662.5	390		
	AVS-30602-T							45	652.5			
	AVS-30602-4T											
⑤	AVS-30703-T		3	53		7		47	687.5	415		
	AVS-30703-4T											
⑥	AVS-30803-T			61		8		49	712.5	440		
	AVS-30803-4T											
⑦	AVS-30903-T			69		9		49.5	737.5	465		
	AVS-30903-4T											
⑧	AVS-31003-T			76		10		50	762.5	490		
	AVS-31003-4T											
⑨	AVS-31105-T		5	83		11		63.5	862	490	220	170
	AVS-31105-4T											

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVS-4TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	Dimension(mm) F1	F2	E1	E2
①	AVS-40202	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	2	24	17,600(2)	2	40	56	658	401	190	137
	AVS-40202-T							55.5	668			
	AVS-40202-4T											
②	AVS-40303-T		3	36		3		58	706	433		
	AVS-40303-4T											
③	AVS-40405-T		5	48		4		72	838	465	220	170
	AVS-40405-4T											
④	AVS-40505-T			60		5		72.5	870	497		
	AVS-40505-4T											
⑤	AVS-40607-T		7.5	71		6		74	922	529		
	AVS-40607-4T											
⑥	AVS-40707-T			85		7		97	955	561		
	AVS-40707-4T											
⑦	AVS-40807-T			97		8		97.5	987	594		
	AVS-40807-4T											
⑧	AVS-40910-T		10	109		9		102.5	1072	627	300	205
	AVS-40910-4T											

AVS-5TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	F1	F2	E1	E2
①	AVS-50205-T	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	5	29	25,600(2)	2	50	73	792	460	220	170
	AVS-50205-4T											
②	AVS-50307-T		7.5	45		3		97	858	505		
	AVS-50307-4T											
③	AVS-50407-T			57		4		98	903	550		
	AVS-50407-4T											
④	AVS-50510-T		10	71		5		99	1001	595	300	205
	AVS-50510-4T											
⑤	AVS-50615-T		15	86		6		100	1046	640	350	280
	AVS-50615-4T											

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVG-2TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	Dimension(mm) F1	F2	E1	E2
①	AVG-20401	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	1	31	4,800(2)	4	25	43.5	546.5	307	190	137
	AVG-20401-T								554.5			
	AVG-20401-4T											
②	AVG-20501			39		5		44	566.5	327		
	AVG-20501-T								574.5			
	AVG-20501-4T											
③	AVG-20601		1.5	46		6		47	601.5	347		
	AVG-20601-T							46	604.5			
	AVG-20601-4T											
④	AVG-20701			54		7		47.5	621.5	367		
	AVG-20701-T							46.5	624.5			
	AVG-20701-4T											
⑤	AVG-20802		2	63		8		50	659.5	387		
	AVG-20802-T							49.5	649.5			
	AVG-20802-4T											
⑥	AVG-20902			71		9		50.5	679.5	407		
	AVG-20902-T							50	669.5			
	AVG-20902-4T											
⑦	AVG-21003-T		3	78		10		53.5	699.5	423		
	AVG-21003-4T											
⑧	AVG-21103-T			85		11		54	719.5	447		
	AVG-21103-4T											

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVG-3TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	Dimension(mm)			
									F1	F2	E1	E2
①	AVG-30301	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	1	22	9,600(2)	3	32	43.5	541.5	302	190	137
	AVG-30301-T								549.5			
	AVG-30301-4T											
②	AVG-30401		1.5	30		4		47	581.5	327		
	AVG-30401-T							46	584.5			
	AVG-30401-4T											
③	AVG-30502		2	38		5		49.5	624.5	352		
	AVG-30502-T							49	614.5			
	AVG-30502-4T											
④	AVG-30602			46		6		50	649.5	377		
	AVG-30602-T							49.5	639.5			
	AVG-30602-4T											
⑤	AVG-30703-T		3	53		7		51.5	674.5	402		
	AVG-30703-4T											
⑥	AVG-30803-T			61		8		53.5	699.5	427		
	AVG-30803-4T											
⑦	AVG-30903-T			69		9		54	724.5	452		
	AVG-30903-4T											
⑧	AVG-31003-T			76		10		54.5	749.5	477		
	AVG-31003-4T											
⑨	AVG-31105-T		5	83		11		68	849	477	220	170
	AVG-31105-4T											

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVG-4TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	Dimension(mm)			
									F1	F2	E1	E2
①	AVG-40202	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	2	24	17,600(2)	2	40	66	663	406	190	137
	AVG-40202-T							65.5	673			
	AVG-40202-4T											
②	AVG-40303-T		3	36		3		68	711	438		
	AVG-40303-4T											
③	AVG-40405-T		5	48		4		82	843	470	220	170
	AVG-40405-4T											
④	AVG-40505-T			60		5		82.5	875	502		
	AVG-40505-4T											
⑤	AVG-40607-T		7.5	71		6		84	927	534		
	AVG-40607-4T											
⑥	AVG-40707-T			85		7		107	960	566		
	AVG-40707-4T											
⑦	AVG-40807-T			97		8		107.5	992	599		
	AVG-40807-4T											
⑧	AVG-40910-T		10	109		9		112.5	1,077	632	300	205
	AVG-40910-4T											

AVG-5TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Stage	Diameter (A)	Weight (kg)	F1	F2	E1	E2
①	AVG-50205-T	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	5	29	25,600(2)	2	50	73	792	460	220	170
	AVG-50205-4T											
②	AVG-50307-T		7.5	45		3		97	858	505		
	AVG-50307-4T											
③	AVG-50407-T			57		4		98	903	550		
	AVG-50407-4T											
④	AVG-50510-T		10	71		5		99	1001	595	300	205
	AVG-50510-4T											
⑤	AVG-50615-T		15	86		6		100	1046	640	350	280
	AVG-50615-4T											

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

Large Diameter type Vertical Booster Pumps

AVS 6/8/10

For water supply
Clear water pump

24 Hours
Delivery Guarantee Only Domestic Sales (S. Korea)

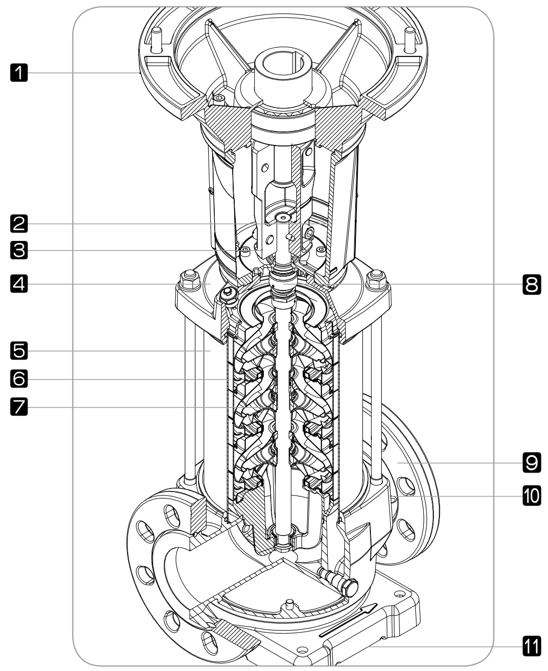
Model selection guide

A	ABSOLUTE
V	VERTICAL
S	STAINLESS STEEL
6	DISCHARGE DIAMETER
08	IMPELLER STAGE
50	MOTOR OUTPUT(HP)
-T -3T -4T	THREE PHASE 220V/380V THREE PHASE 380V THREE PHASE 440V
-316	WATER CONTACT SURFACE STS-316

APPLICATION

Waste water
Manufacturing machine
Cooling tower water supply
Building equipment
Cleaning machine
Agriculture & Livestock industry

Main parts



List of material	
Parts	Material
1 Motor adaptor	Gray cast iron
2 Motor bracket	
3 Coupling	
4 Upper flange	Stainless steel (SSC-14)
5 Pump case	Stainless steel (STS-316)
6 Guide vane assembly	
7 Impeller assembly	
8 Mechanical seal	Carbon/SiC
9 Casing flange	Gray cast iron
10 Casing	Stainless steel (SSC-14)
11 Lower casing	Gray cast iron

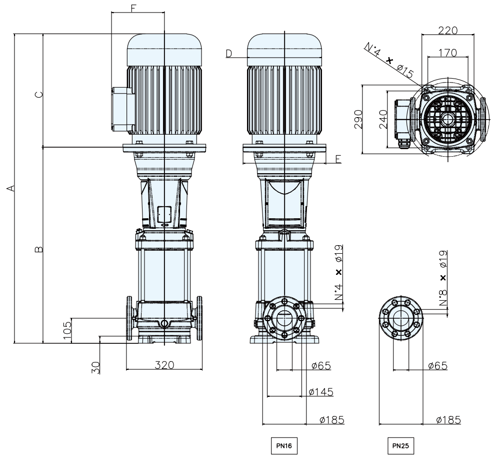
FEATURE

Applied SSC14(STS316)

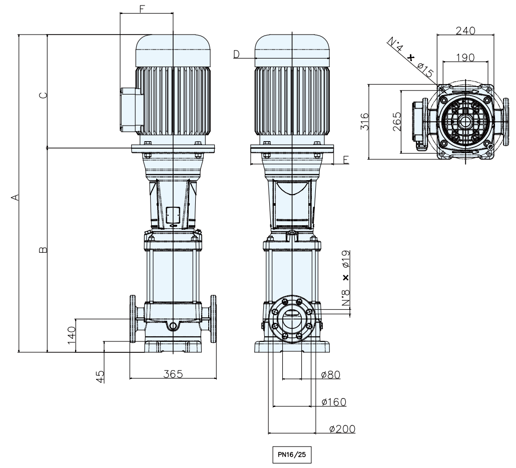
- Mechanical seal cartridge type
- JIS type flange

OUTSIDE VIEW

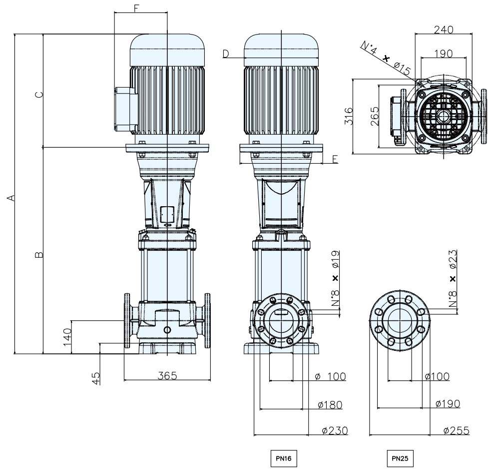
AVS-6TYPE



AVS-8TYPE



AVS-10TYPE



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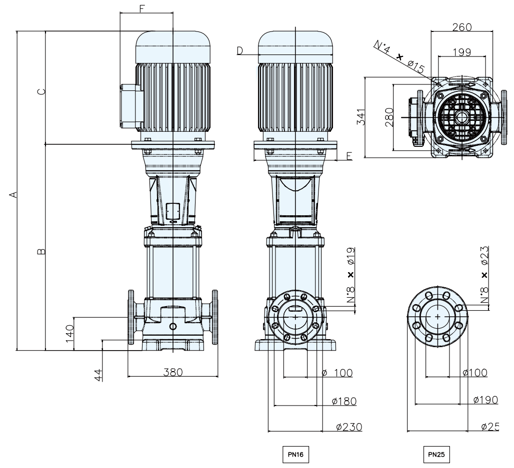
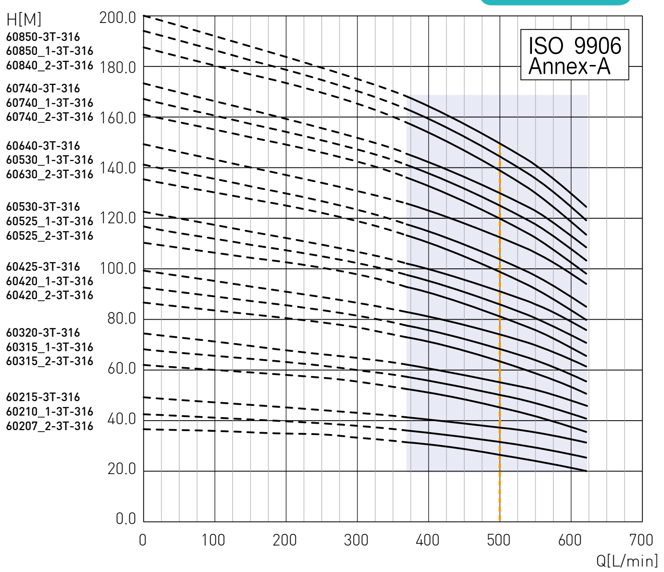


PERFORMANCE CURVE

AVS-6TYPE



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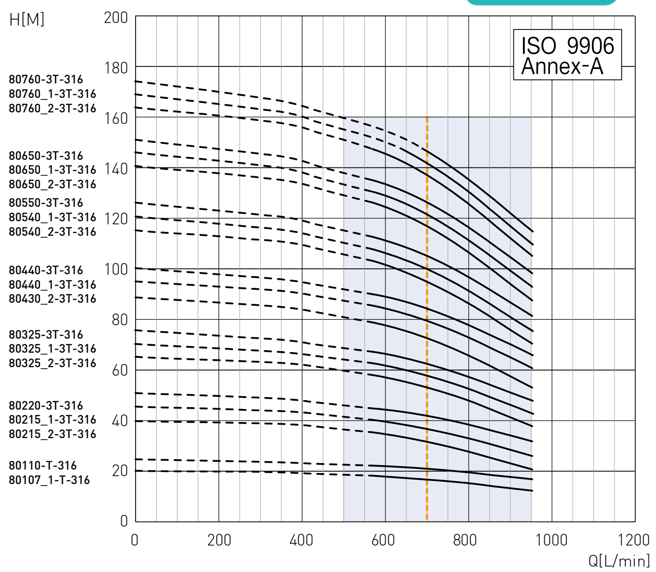
2PUMP	0	12	24	36	48	60	72	84
3PUMP	0	18	36	54	72	90	108	126
4PUMP	0	24	48	72	96	120	144	168
5PUMP	0	30	60	90	120	150	180	210
6PUMP	0	36	72	108	144	180	216	252
7PUMP	0	42	84	126	168	210	252	294
8PUMP	0	48	86	144	192	240	288	336

[m³/h]

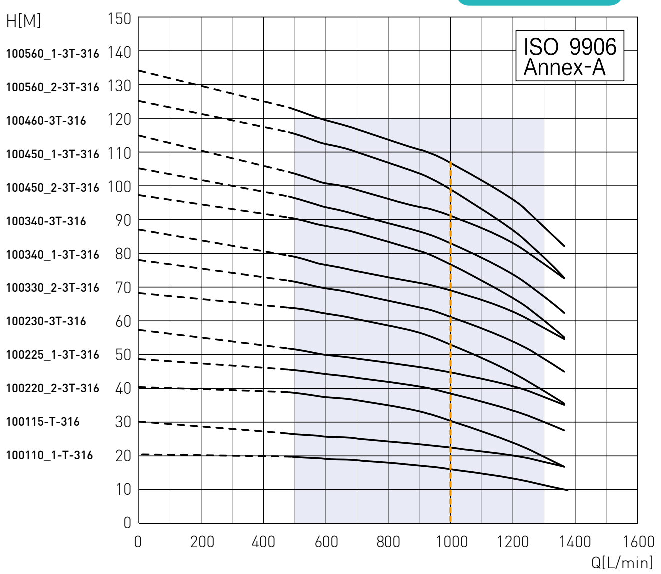
AVS-8TYPE



1PUMP	0	12	24	36	48	60	72
2PUMP	0	24	48	72	96	120	144
3PUMP	0	36	72	108	144	180	216
4PUMP	0	48	96	144	192	240	288
5PUMP	0	60	120	180	240	300	360
6PUMP	0	72	144	216	288	360	432
7PUMP	0	84	168	252	336	420	504
8PUMP	0	96	192	288	384	480	576

[m³/h]

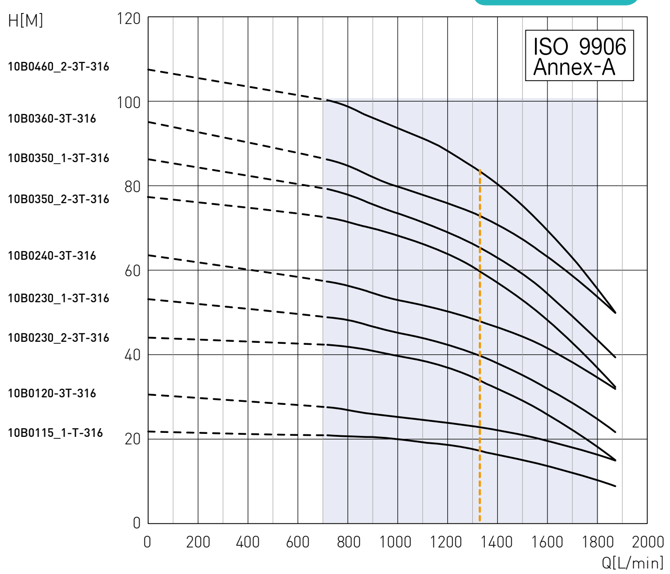
AVS-10TYPE



1PUMP	0	12	24	36	48	60	72	84	96
2PUMP	0	24	48	72	96	120	144	168	192
3PUMP	0	36	72	108	144	180	216	252	288
4PUMP	0	48	96	144	192	240	288	336	384
5PUMP	0	60	120	180	240	300	360	420	480
6PUMP	0	72	144	216	288	360	432	504	576
7PUMP	0	84	168	252	336	420	504	588	672
8PUMP	0	96	192	288	384	480	576	672	768

[m³/h]

AVS-10BTYPE



1PUMP	0	12	24	36	48	60	72	84	96	108	120
2PUMP	0	24	48	72	96	120	144	168	192	216	240
3PUMP	0	36	72	108	144	180	216	252	288	324	360
4PUMP	0	48	96	144	192	240	288	336	384	432	480
5PUMP	0	60	120	180	240	300	360	420	480	540	600
6PUMP	0	72	144	216	288	360	432	504	576	648	720
7PUMP	0	84	168	252	336	420	504	588	672	756	840
8PUMP	0	108	216	324	432	540	648	756	864	972	1080

[m³/h]

SPECIFICATION

AVS-6TYPE

	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Flow rate(L/h)		Stage	Pipe (A)	Weight(kg)			Dimension(mm)					
					(L/h)	(m)			Motor	Pump	Gross weight	A	B	C	D	E	F
①	AVS-60207_2-T-316	T : Three phase 220/380 3T : Three phase 380 4T : Three phase 440	7.5	36	38,400	19	2	65	38	74.5	112.5	1117	724	393	220	300	170
②	AVS-60210_1-T-316		10	43		25	2		86	74.5	160.5	1142	724	418	274	300	220
③	AVS-60215-T-316		15	50		31	2		110	77.5	187.5	1229	744	485	317	350	265
④	AVS-60315_2-T-316		15	62		35	3		110	81.5	191.5	1311	826	485	317	350	265
⑤	AVS-60315_1-T-316		15	68		40	3		110	81.5	191.5	1311	826	485	317	350	265
⑥	AVS-60320-3T-316		20	74		46	3		128	81.5	209.5	1311	826	485	317	350	265
⑦	AVS-60420_2-3T-316		20	86		50	4		128	85.5	213.5	1393	908	485	317	350	265
⑧	AVS-60420_1-3T-316		20	92		55	4		128	85.5	213.5	1393	908	485	317	350	265
⑨	AVS-60425-3T-316		25	99		61	4		140	85.5	225.5	1437	908	529	317	350	265
⑩	AVS-60525_2-3T-316		25	111		65	5		140	89.5	229.5	1519	990	529	317	350	265
⑪	AVS-60525_1-3T-316		25	117		70	5		140	89.5	229.5	1519	990	529	317	350	265
⑫	AVS-60530-3T-316		30	123		75	5		200	89.5	289.5	1568	990	578	365	350	300
⑬	AVS-60630_2-3T-316		30	135		79	6		200	93.5	293.5	1650	1072	578	365	350	300
⑭	AVS-60630_1-3T-316		30	141		84	6		200	93.5	293.5	1650	1072	578	365	350	300
⑮	AVS-60640-3T-316		40	149		93	6		210	96.5	306.5	1684	1077	607	365	350	300
⑯	AVS-60740_2-3T-316		40	161		98	7		210	100.5	310.5	1766	1159	607	365	350	300
⑰	AVS-60740_1-3T-316		40	168		103	7		210	100.5	310.5	766	159	607	365	350	300
⑱	AVS-60740-3T-316		40	174		109	7		210	100.5	310.5	1766	1159	607	365	350	300
⑲	AVS-60840_2-3T-316		40	186		113	8		210	104.5	314.5	1848	1241	607	365	350	300
⑳	AVS-60850_1-3T-316		50	193		119	8		290	104.5	394.5	1951	1241	710	418	450	335
㉑	AVS-60850-3T-316		50	199		124	8		290	104.5	394.5	1951	1241	710	418	450	335

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVS-8TYPE

No.	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h)		Stage	Pipe (A)	Weight(kg)			Dimension(mm)					
					(L/h)	(m)			Motor	Pump	Gross weight	A	B	C	D	E	F
①	AVS-80107_1-T-316	T : Three phase 220/380 3T : Three phase 380 4T : Three phase 440	7.5	28	72,000	15	1	80	86	76.5	162.5	1070	677	393	220	300	170
②	AVS-80110-T-316		10	35.5		22.5	1		86	76.5	162.5	1095	677	418	274	300	220
③	AVS-80215_2-T-316		15	56		31	2		110	83.5	193.5	1264	779	485	317	350	265
④	AVS-80215_1-T-316		15	63.5		38	2		110	83.5	193.5	1264	779	485	317	350	265
⑤	AVS-80220-3T-316		20	70.5		45.5	2		128	83.5	211.5	1264	779	485	317	350	265
⑥	AVS-80325_2-3T-316		25	91.5		53.5	2		140	87.5	227.5	1390	861	529	317	350	265
⑦	AVS-80325_1-3T-316		25	98.5		60.5	3		140	87.5	227.5	1390	861	529	317	350	265
⑧	AVS-80325-3T-316		25	106		67.5	3		140	87.5	227.5	1390	861	529	317	350	265
⑨	AVS-80430_2-3T-316		30	126		75	3		200	91	291	1521	943	578	365	350	300
⑩	AVS-80440_1-3T-316		40	135		86	4		210	94	304	1555	948	607	365	350	300
⑪	AVS-80440-3T-316		40	142.5		93.5	4		210	94	304	1555	948	607	365	350	300
⑫	AVS-80540_2-3T-316		40	163		101.5	4		210	98	308	1637	1030	607	365	350	300
⑬	AVS-80540_1-3T-316		40	170.5		108.5	5		210	98	308	1637	1030	607	365	350	300
⑭	AVS-80540-3T-316		50	178		116.5	5		210	98	308	1637	1030	607	365	350	300
⑮	AVS-80650_2-3T-316		50	198.5		124	5		290	102	392	1822	1112	710	418	450	335
⑯	AVS-80650_1-3T-316		50	206		131.5	6		290	102	392	1822	1112	710	418	450	335
⑰	AVS-80650-3T-316		50	213		139	6		290	102	392	1822	1112	710	418	450	335
⑱	AVS-80760_2-3T-316		60	234		148	6		330	109	439	2004	1194	810	418	450	335
⑲	AVS-80760_1-3T-316		60	241.5		155	7		330	109	439	2004	1194	810	418	450	335
⑳	AVS-80760-3T-316		60	249		162.5	7		330	109	439	2004	1194	810	418	450	335

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

SPECIFICATION

AVS-10TYPE

No.	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Flow rate(L/h)		Stage	Pipe (A)	Weight(kg)			Dimension(mm)					
					(L/h)	(m)			Motor	Pump	Gross weight	A	B	C	D	E	F
①	AVS-100110_1-T-316	T : Three phase 220/380 3T : Three phase 380 4T : Three phase 440	10	20	74,400	20	1	100	86	81	167	1155	737	418	274	300	220
②	AVS-100115-T-316		15	29		29	1		110	84	194	1242	757	485	317	350	265
③	AVS-100220_2-3T-316		20	40		40	2		128	88.5	216.5	1334	849	485	317	350	265
④	AVS-100225_1-3T-316		25	48		48	2		140	88.5	228.5	1378	849	529	317	350	265
⑤	AVS-100230-3T-316		30	57		57	2		200	89	289	1427	849	578	365	350	300
⑥	AVS-100330_2-3T-316		30	68		68	3		200	93.5	293.5	1519	941	578	365	350	300
⑦	AVS-100340_1-3T-316		40	78		78	3		210	96.5	306.5	1553	946	607	365	350	300
⑧	AVS-100340-3T-316		40	86		86	3		210	96.5	306.5	1553	946	607	365	350	300
⑨	AVS-100450_2-3T-316		50	98		98	4		290	101	391	1748	1038	710	418	450	335
⑩	AVS-100450_1-3T-316		50	106		106	4		290	101	391	1748	1038	710	418	450	335
⑪	AVS-100460-3T-316		60	1172		1172	4		330	104	434	1848	1038	810	418	450	335
⑫	AVS-100560_2-3T-316		60	126		126	5		330	108.5	438.5	1940	1130	810	418	450	335
⑬	AVS-100560_1-3T-316		60	135		135	5		330	108.5	438.5	1940	1130	810	418	450	335

AVS-10BTYPE

No.	Model	Voltage (v.ac)	Output (HP)	Max. head (m)	Flow rate (L/h)	Flow rate (m)	Stage	Pipe (A)	Motor	Pump	Gross weight	A	B	C	D	E	F
①	AVS-10B0115_1-T-316	T : Three phase 220/380 3T : Three phase 380 4T : Three phase 440	15	23	112,800	23	1	100	110	82.5	192.5	1222	737	485	317	350	265
②	AVS-10B0120-T-316		20	32		32	1		128	85.5	213.5	1242	757	485	317	350	265
③	AVS-10B0225_2-3T-316		25	45		45	2		140	89	229	1378	849	529	317	350	265
④	AVS-10B0230_1-3T-316		30	54		54	2		200	89.5	289.5	1427	849	578	365	350	300
⑤	AVS-10B0240-3T-316		40	63		63	2		210	92.5	302.5	1461	854	607	365	350	300
⑥	AVS-10B0350_2-3T-316		50	77		77	3		290	96.5	386.5	1656	946	710	418	450	335
⑦	AVS-10B0350_1-3T-316		50	86		86	3		290	96.5	386.5	1656	946	710	418	450	335
⑧	AVS-10B0360-3T-316		60	95		95	3		330	99.5	429.5	1756	946	810	418	450	335
⑨	AVS-10B0460_2-3T-316		60	109		109	4		330	103	433	1848	1038	810	418	450	335

※ Optimum head is 85% of the indicated Max. head.
※ Design and specification are subject to revise for quality improvement without notice.
※ Three phase 440V : Configure to order.

ELECTRONIC CONTROL BOOSTER PUMPS (VERTICAL)

AVSC1S,2S TYPE

High efficiency equipment

For water supply
Clear water pump
S type only

24 Hours
Delivery Guarantee Only Domestic Sales (S. Korea)

Model selection guide

A	ABSOLUTE
V	VERTICAL
S	SENSOR
C	CONTROL
1,2	THE NUMBER OF PUMP
S	STAINLESS
30502	PUMP MODEL
NONE	SINGLE PHASE 220V
-2T	THREE PHASE 220V
-3T	THREE PHASE 380V
-4T	THREE PHASE 440V

AVSC1S-TYPE

AVSC2S-TYPE

APPLICATION

Sauna
Apartment
Building
Shopping mall
School, Hospital

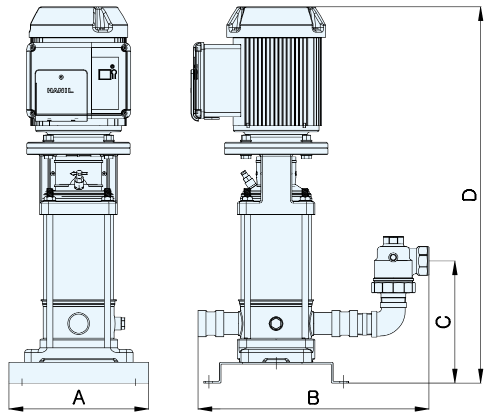
FEATURE

HIGH EFFICIENCY

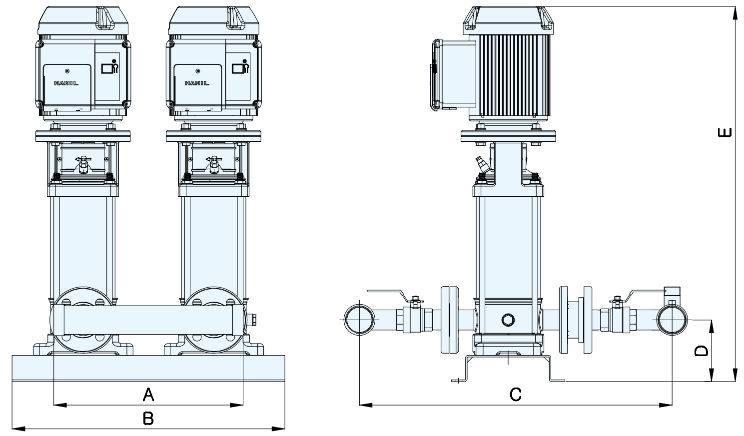
- Enable to use warm water up to 80℃
- MEMS(Micro Electro-Mechanical systems) sensor with low noise
- MCU(Micro Controller Unit)
- Rust-proof stainless steel on water contact surface
- Nitrogen Tank 4 Liters

OUTSIDE VIEW

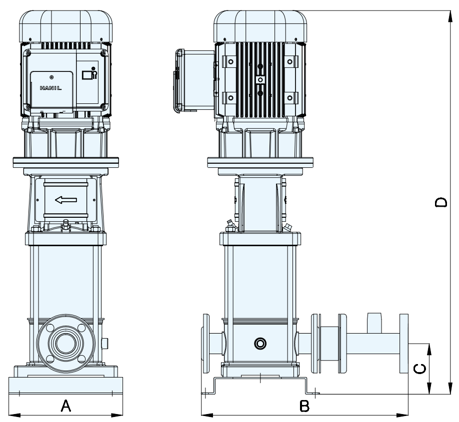
AVSC1S-2,3TYPE



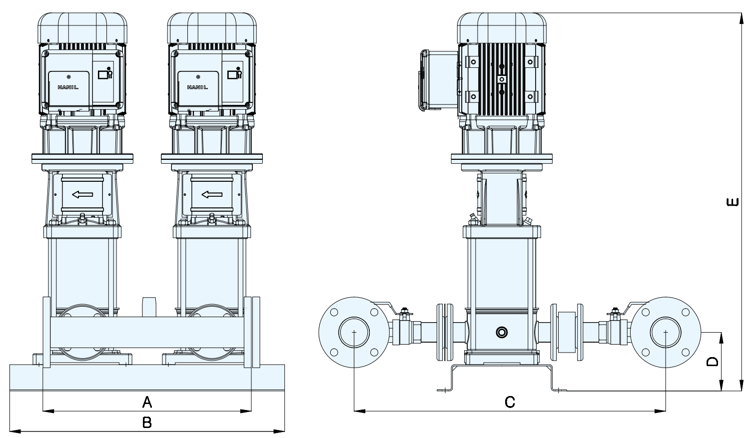
AVSC2S-2,3TYPE



AVSC1S-4,5TYPE

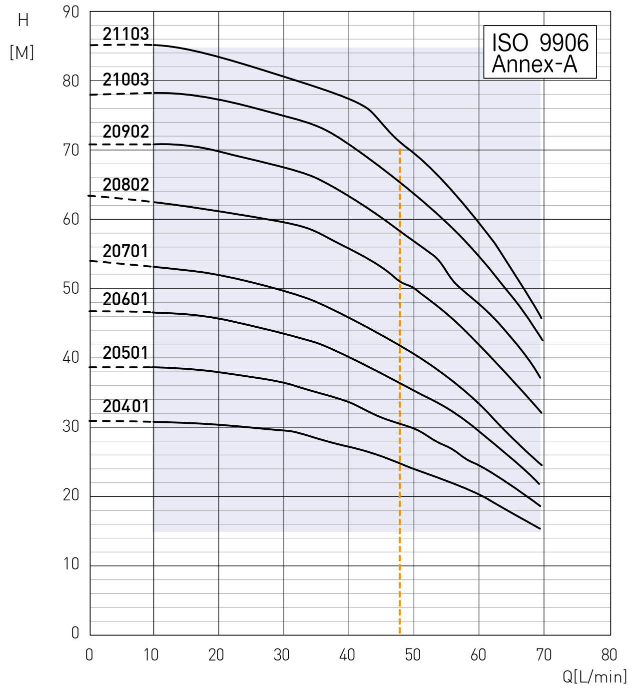


AVSC2S-4.5TYPE



PERFORMANCE CURVE

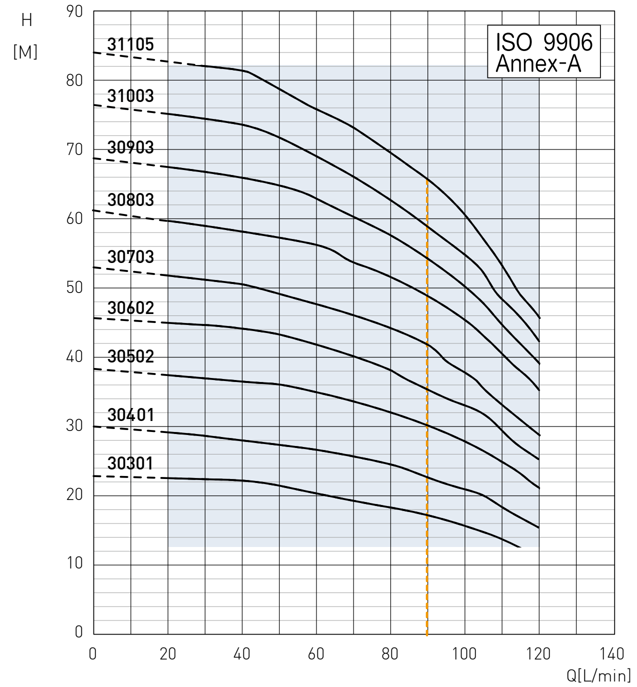
2TYPE



1PUMP	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
2PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
3PUMP	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
4PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2

[m³/h]

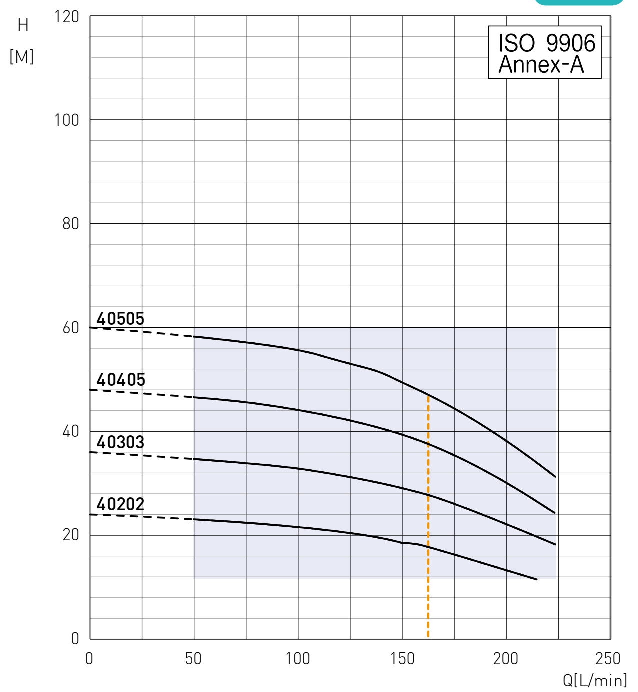
3TYPE



1PUMP	0	1.2	2.4	3.6	4.8	6	7.2	8.4
2PUMP	0	2.4	4.8	7.2	9.6	12	14.4	16.8
3PUMP	0	3.6	7.2	10.8	14.4	18	21.6	25.2
4PUMP	0	4.8	9.6	14.4	19.2	24	28.8	33.6

[m³/h]

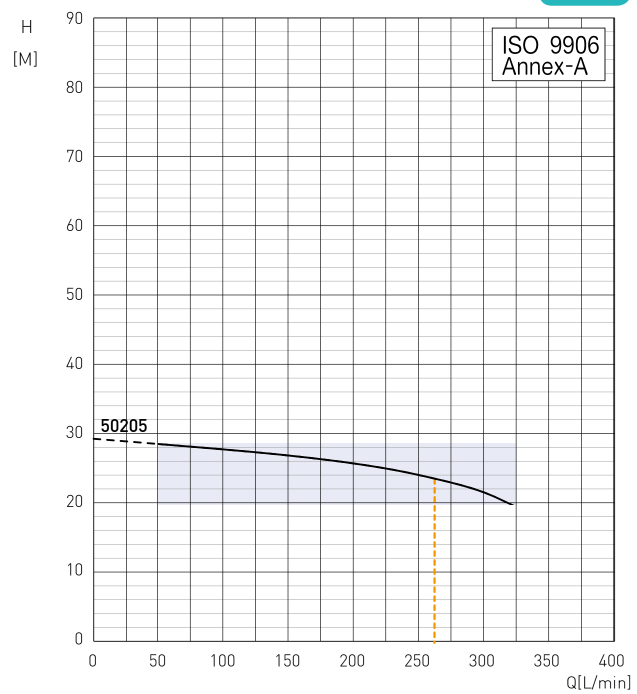
4TYPE



1PUMP	0	3	6	9	12	15
2PUMP	0	6	12	18	24	30
3PUMP	0	9	18	27	36	45
4PUMP	0	12	24	36	48	60

[m³/h]

5TYPE



1PUMP	0	3	6	9	12	15	18	21	24
2PUMP	0	6	12	18	24	30	36	42	48
3PUMP	0	9	18	27	36	45	54	63	72
4PUMP	0	12	24	36	48	60	72	84	96

[m³/h]

SPECIFICATION

AVSC1S-TYPE

	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D
1	AVSC1S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	31	48(25)	25	270×400×235×607
2	AVSC1S-20501(-2T, 3T, 4T)		1	39	48(30)		270×400×235×627
3	AVSC1S-20601(-2T, 3T, 4T)		1.5	46	48(36)		270×400×235×657
4	AVSC1S-20701(-2T, 3T, 4T)		1.5	54	48(42)		270×400×235×677
5	AVSC1S-20802(-2T, 3T, 4T)		2	63	48(51)		270×400×235×702
6	AVSC1S-20902(-2T, 3T, 4T)		2	71	48(58)		270×400×235×722
7	AVSC1S-21003-3T(4T)		3	78	48(65)		270×400×235×752
8	AVSC1S-21103-3T(4T)		3	85	48(70)		270×400×235×772
9	AVSC1S-30301(-2T, 3T, 4T)		1	22	88(17)	32	270×420×235×594
10	AVSC1S-30401(-2T, 3T, 4T)		1.5	30	88(22)		270×420×235×634
11	AVSC1S-30502(-2T, 3T, 4T)		2	38	88(29)		270×420×235×662
12	AVSC1S-30602(-2T, 3T, 4T)		2	46	88(36)		270×420×235×687
13	AVSC1S-30703-3T(4T)		3	53	88(42)		270×420×235×727
14	AVSC1S-30803-3T(4T)		3	61	88(48)		270×420×235×752
15	AVSC1S-30903-3T(4T)		3	69	88(53)		270×420×235×777
16	AVSC1S-31003-3T(4T)		3	76	88(60)		270×420×235×802
17	AVSC1S-31105-3T(4T)		5	83	88(65)		270×420×235×902
18	AVSC1S-40202(-2T, 3T, 4T)		2	24	160(18)	40	270×475×120×698
19	AVSC1S-40303-3T(4T)		3	36	160(27)		270×475×120×746
20	AVSC1S-40405-3T(4T)		5	48	160(36)		270×475×120×877
21	AVSC1S-40505-3T(4T)		5	60	160(46)		270×475×120×909
22	AVSC1S-50205-3T(4T)		5	29	264(25)	50	270×475×130×832

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order.
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

AVSC1S,2S-TYPE

SPECIFICATION

AVSC2S-TYPE

No.	Model / Inverter system	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/m) at Ht(m)	Pipe (A)	Dimension(mm) A×B×C×D×E
1	AVSC2S-20401(-2T, 3T, 4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1×2	44	120(35)	40	400×576×630×130×622
2	AVSC2S-20501(-2T, 3T, 4T)		1×2	55	120(43)		400×576×630×130×641
3	AVSC2S-20601(-2T, 3T, 4T)		1.5×2	66	120(52)		400×576×630×130×672
4	AVSC2S-20701(-2T, 3T, 4T)		1.5×2	77	120(60)		400×576×630×130×692
5	AVSC2S-20802(-2T, 3T, 4T)		2×2	90	120(73)		400×576×630×130×717
6	AVSC2S-20902(-2T, 3T, 4T)		2×2	101	120(83)		400×576×630×130×737
7	AVSC2S-21003-3T(4T)		3×2	111	120(93)		400×576×630×130×767
8	AVSC2S-21103-3T(4T)		3×2	121	120(100)		400×576×630×130×787
9	AVSC2S-30301(-2T, 3T, 4T)		1×2	32	220(24)	50	405×576×660×130×609
10	AVSC2S-30401(-2T, 3T, 4T)		1.5×2	43	220(32)		405×576×660×130×649
11	AVSC2S-30502(-2T, 3T, 4T)		2×2	54	220(42)		405×576×660×130×677
12	AVSC2S-30602(-2T, 3T, 4T)		2×2	65	220(51)		405×576×660×130×702
13	AVSC2S-30703-3T(4T)		3×2	75	220(60)		405×576×660×130×742
14	AVSC2S-30803-3T(4T)		3×2	87	220(68)		405×576×660×130×767
15	AVSC2S-30903-3T(4T)		3×2	98	220(76)		405×576×660×130×792
16	AVSC2S-31003-3T(4T)		3×2	109	220(85)		405×576×660×130×817
17	AVSC2S-31105-3T(4T)		5×2	119	220(93)		405×576×660×130×917
18	AVSC2S-40202(-2T, 3T, 4T)		2×2	34	400(26)	65	515×680×770×135×713
19	AVSC2S-40303-3T(4T)		3×2	51	400(39)		515×680×770×135×761
20	AVSC2S-40405-3T(4T)		5×2	68	400(52)		515×680×770×135×892
21	AVSC2S-40505-3T(4T)		5×2	86	400(65)		515×680×770×135×924
22	AVSC2S-50205-3T(4T)		5×2	41	660(35)	80	515×680×870×145×847

※ Optimum head is 85% of the indicated Max. head.
※ Three phase 220V & 440V : configure to order.
※ Design and specification are subject to revise for quality improvement without notice.
※ Pipe diameter below 50A is screw piping type.

Hanil

HANIL All Stainless Pump

GOOD DESIGN Nominated by Ministry of Trade, Industry and Energy

KSA ISO 9001 CERTIFIED

MADE BY HANIL

Link to Hanil's website

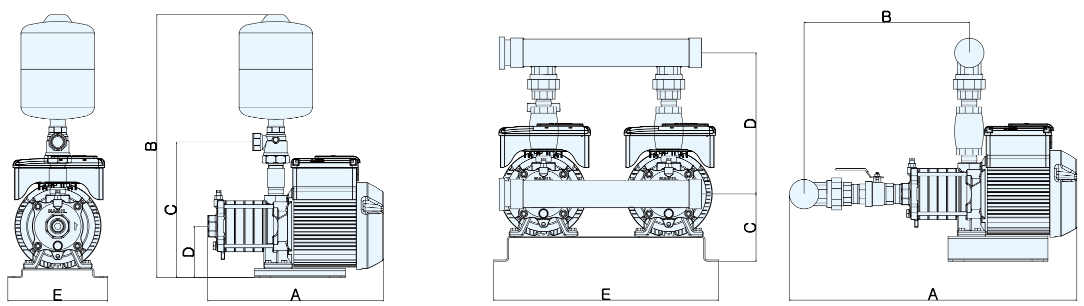
ELECTRONIC AUTO-CONTROL BOOSTER (HORIZONTAL)

AHSC1S AHSC2S

For water supply
Clear water pump

AHSC1S-20401

AHSC2S-20401



Model selection guide

A	ABSOLUTE
H	HORIZONTAL
S	SENSOR
C	CONTROL
1,2	THE NUMBER OF PUMP
S	STAINLESS
20401	PUMP MODEL
NONE -2T -3T -4T	SINGLE PHASE 220V THREE PHASE 220V THREE PHASE 380V THREE PHASE 440V

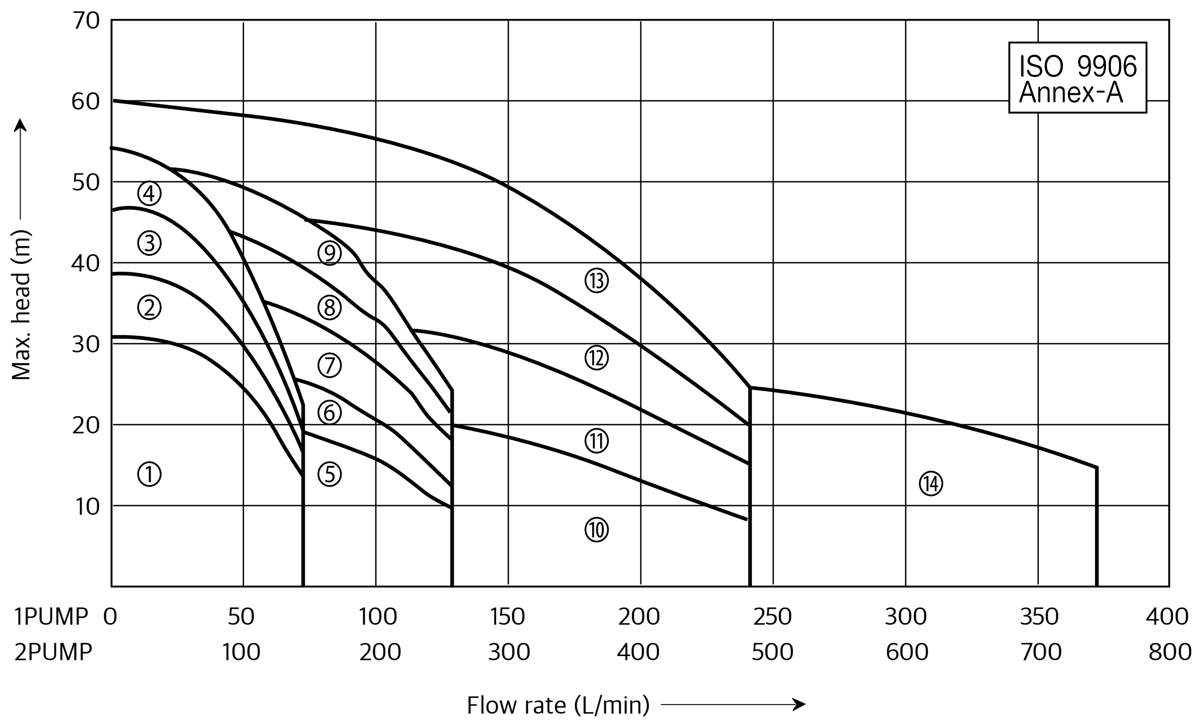
APPLICATION

FEATURE

HIGH EFFICIENCY

- Enable to use warm water up to 80℃
- MEMS(Micro Electro-Mechanical systems) sensor with low noise
- MCU(Micro Controller Unit)
- Rust-proof stainless steel on water contact surface
- Flexible Union piping for various installation directions

PERFORMANCE CURVE



SPECIFICATION

AHSC1S-2TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Weight (kg)	Dimension(mm) A×B×C×D×E
①	AHSC1S-20401(-2T,-3T,-4T)	None : Single phase 220	1	31	4,800(0.2)	31	25	20	387×578×298×113×220
②	AHSC1S-20501(-2T,-3T,-4T)	2T : Three phase 220		39		39		20.5	407.5×578×298×113×220
③	AHSC1S-20601(-2T,-3T,-4T)	3T : Three phase 380	1.5	46		46		22	438×578×298×113×220
④	AHSC1S-20701(-2T,-3T,-4T)	4T : Three phase 440		54		54		22.5	458.5×578×298×113×220

AHSC2S-2TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Weight (kg)	Dimension(mm) A×B×C×D×E
①	AHSC2S-20401(-2T,-3T,-4T)	None : Single phase 220	1×2	31	9,600(0.2)	31	40	42	601×364×148×310×496
②	AHSC2S-20501(-2T,-3T,-4T)	2T : Three phase 220		39		39		43	622×364×148×310×496
③	AHSC2S-20601(-2T,-3T,-4T)	3T : Three phase 380	1.5×2	46		46		46	652×364×148×310×496
④	AHSC2S-20701(-2T,-3T,-4T)	4T : Three phase 440		54		54		47	673×364×148×310×496

※ Pipe diameter below 50A is screw piping type.
※ Three phase 440V : Configure to order.
※ Design and specification are subject to revise for quality improvement without notice.

ELECTRONIC AUTO-CONTROL BOOSTER (HORIZONTAL)

AHSC1S
AHSC2S

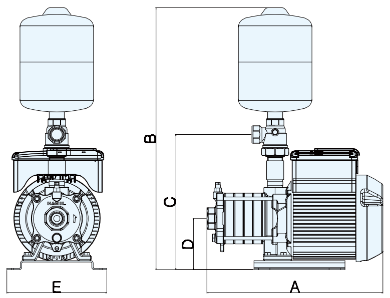
For water supply
Clear water pump

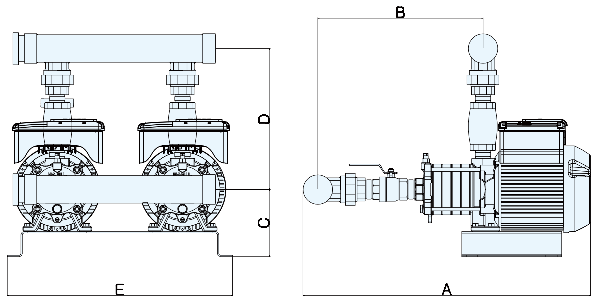
Model selection guide

A	ABSOLUTE
H	HORIZONTAL
S	SENSOR
C	CONTROL
1,2	THE NUMBER OF PUMP
S	STAINLESS
30502	PUMP MODEL
NONE -2T -3T -4T	SINGLE PHASE 220V THREE PHASE 220V THREE PHASE 380V THREE PHASE 440V

AHSC1S-30502

AHSC2S-30502





APPLICATION

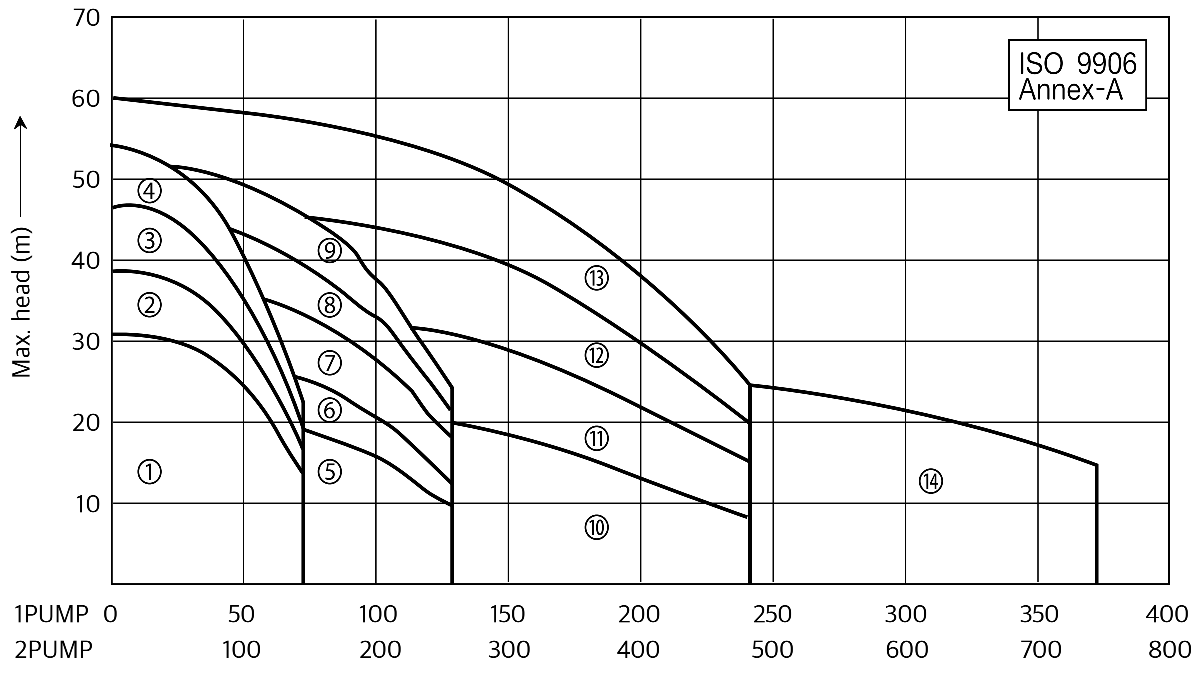
- Home
- Shopping mall, Building
- Pressurizing warm water
- Villa, Row houses
- Pension, Motel
- Circulating cooling water of boiler
- Sprinkler in the green house

FEATURE

HIGH EFFICIENCY

- Enable to use warm water up to 80℃
- MEMS(Micro Electro-Mechanical systems) sensor with low noise
- MCU(Micro Controller Unit)
- Rust-proof stainless steel on water contact surface
- Flexible Union piping for various installation directions

PERFORMANCE CURVE



SPECIFICATION

AHSC1S-3TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Weight (kg)	Dimension(mm) A×B×C×D×E
⑤	AHSC1S-30301(-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1	22	9,600(0.2)	22	32	18	382×579×299×113×220
⑥	AHSC1S-30401(-2T,-3T,-4T)		1.5	30		30		18.5	417×579×299×113×220
⑦	AHSC1S-30502(-2T,-3T,-4T)		2	38		38		21.5	447×579×299×113×220
⑧	AHSC1S-30602(-2T,-3T,-4T)		2	46		46		22	473×579×299×113×220
⑨	AHSC1S-30703-3T(-2T,-4T)		3	53		53		23.5	509×579×299×113×220

AHSC2S-3TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Dimension(mm) A×B×C×D×E
⑤	AHSC2S-30301(-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	1×2	22	16,800(0.2)	22	50	632×359×148×311×496
⑥	AHSC2S-30401(-2T,-3T,-4T)		1.5×2	30		30		667×385×148×311×496
⑦	AHSC2S-30502(-2T,-3T,-4T)		2×2	38		38		697×411×148×311×496
⑧	AHSC2S-30602(-2T,-3T,-4T)		2×2	46		46		723×437×148×311×496
⑨	AHSC2S-30703-3T(-2T,-4T)		3×2	53		53		759×463×148×311×496

※ Pipe diameter below 50A is screw piping type.
※ Three phase 440V : Configure to order.

※ Design and specification are subject to revise for quality improvement without notice.

ELECTRONIC AUTO-CONTROL BOOSTER (HORIZONTAL)

AHSC1S AHSC2S

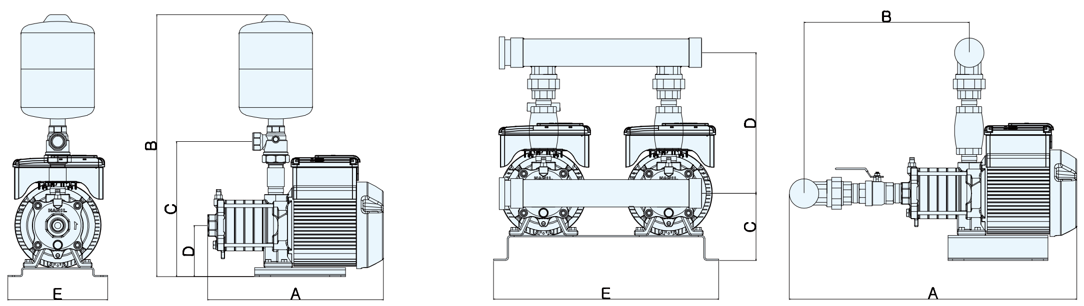
For water supply
Clear water pump

Model selection guide

A	ABSOLUTE
H	HORIZONTAL
S	SENSOR
C	CONTROL
1,2	THE NUMBER OF PUMP
S	STAINLESS
40202	PUMP MODEL
NONE -2T -3T -4T	SINGLE PHASE 220V THREE PHASE 220V THREE PHASE 380V THREE PHASE 440V


AHSC1S-40202


AHSC2S-40202



APPLICATION

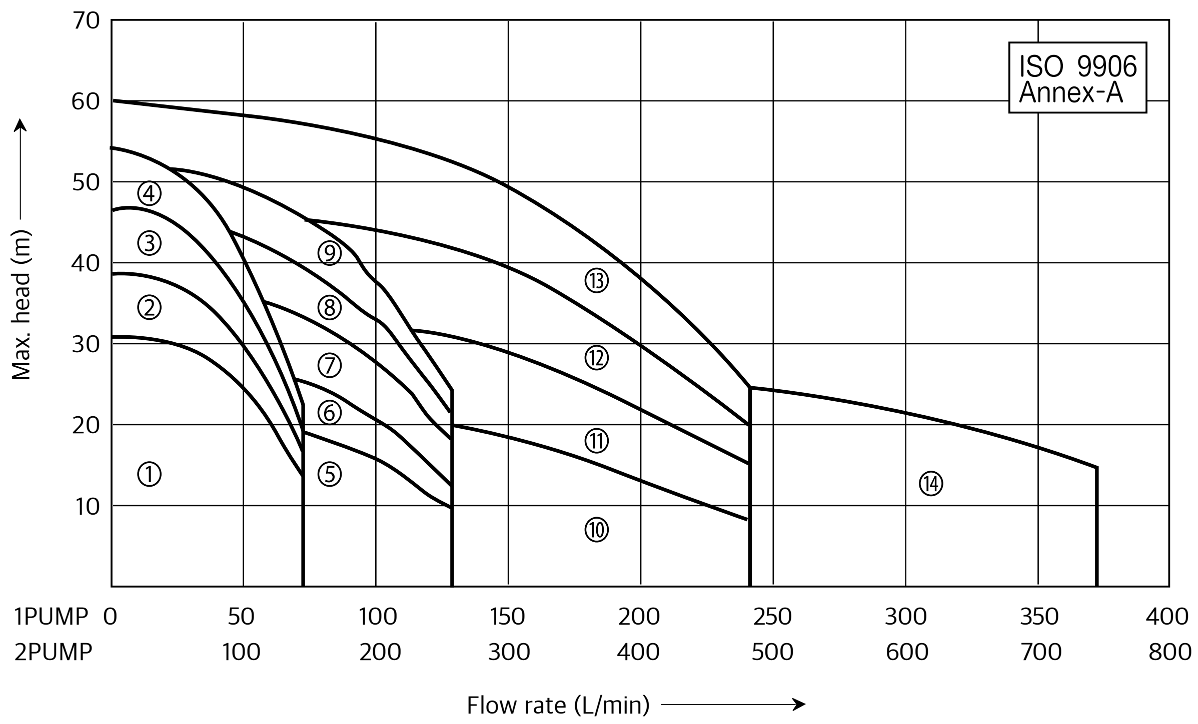
Home
Shopping mall, Building
Pressurizing warm water
Villa, Row houses
Pension, Motel
Circulating cooling water of boiler
Sprinkler in the green house

FEATURE

HIGH EFFICIENCY

- Enable to use warm water up to 80℃
- MEMS(Micro Electro-Mechanical systems) sensor with low noise
- MCU(Micro Controller Unit)
- Rust-proof stainless steel on water contact surface
- Flexible Union piping for various installation directions

PERFORMANCE CURVE



SPECIFICATION

AHSC1S-4,5TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Dimension(mm) A×B×C×D×E
⑩	AHSC1S-40202(-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	2	24	17,600(2)	24	40	402×412×279×113×250
⑪	AHSC1S-40303-3T(-2T,-4T)		3	36		36		445×412×279×113×250
⑫	AHSC1S-40405-3T(-2T,-4T)		5	48		48		532×460×327×152×370
⑬	AHSC1S-40505-3T(-2T,-4T)		5	60		60		564×460×327×152×370
⑭	AHSC1S-50205-3T(-2T,-4T)		5	29	25,600(2)	29	50/40	533×439×406×152×370

AHSC2S-4,5TYPE

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Pipe (A)	Dimension(mm) A×B×C×D×E
⑩	AHSC2S-40202(-2T,-3T,-4T)	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	2×2	24	35,200(2)	24	65	759×404×148×393×635
⑪	AHSC2S-40303-3T(-2T,-4T)		3×2	36		36		791×436×148×393×635
⑫	AHSC2S-40405-3T(-2T,-4T)		5×2	48		48		846×436×167×403×636
⑬	AHSC2S-40505-3T(-2T,-4T)		5×2	60		60		878×468×167×403×636
⑭	AHSC2S-50205-3T(-2T,-4T)		5×2	29	51,200(2)	29	80	853×401×167×409×636

※ Pipe diameter below 50A is screw piping type.
※ Three phase 440V : Configure to order.
※ Design and specification are subject to revise for quality improvement without notice.

ELECTRONIC AUTO-CONTROL BOOSTER

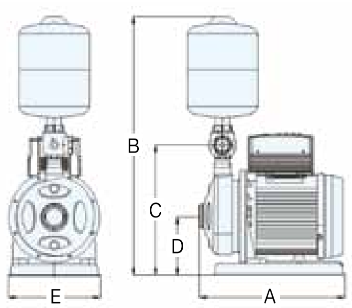
SC1S SC2S

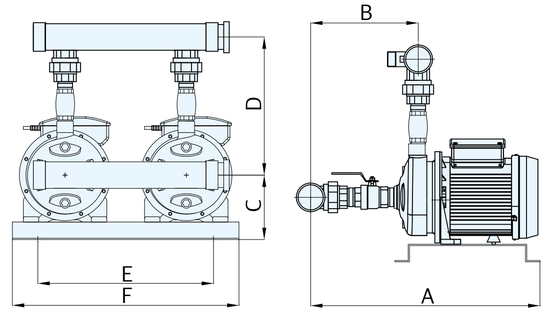
For water supply
Clear water pump

Model selection guide

S	SENSOR
C	CONTROL
1,2	THE NUMBER OF PUMP
S	STAINLESS
80/096	PUMP MODEL
NONE	SINGLE PHASE 220V
-2T	THREE PHASE 220V
-3T	THREE PHASE 380V
-4T	THREE PHASE 440V

SC1S-TYPE



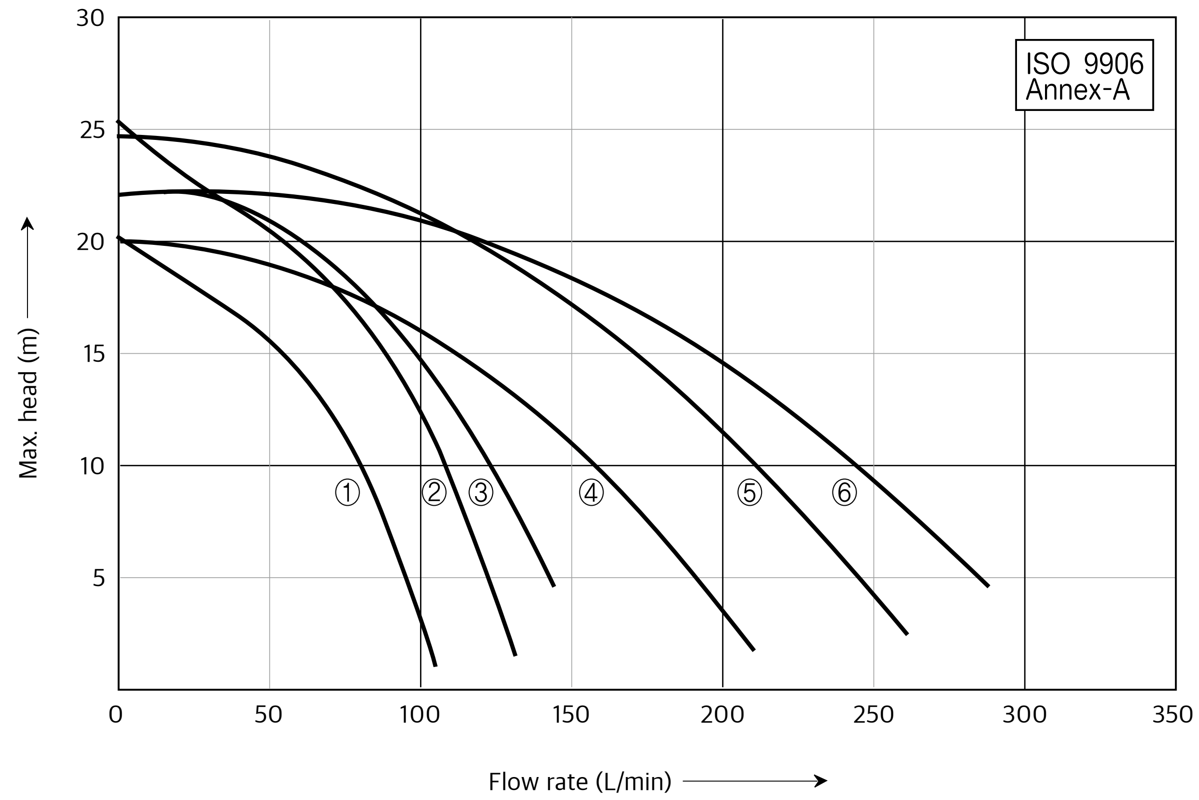


APPLICATION

FEATURE

- All stainless steel on the water contact surface
- MCU(Micro Controller Unit)
- MEMS(Micro Electro-Mechanical systems) sensor with low noise
- Compact design

PERFORMANCE CURVE

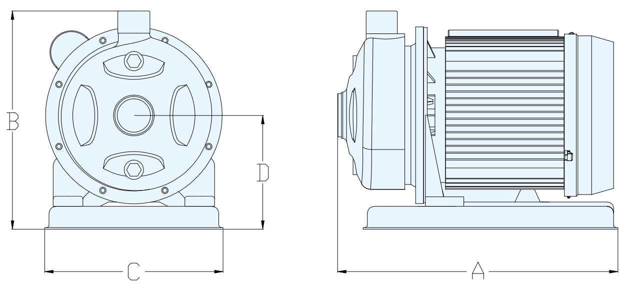


SPECIFICATION

Model / Sensor Control		Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Dimension(mm) A×B×C×D×E×F
①	SC1S-80/066	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	0.8	18	3,120(15)	32/25	330×592×300×135×210
②	SC1S-80/096		1.2	25	2,160(21)		
③	SC1S-120/096		1.2	20	4,800(15)		
④	SC2S-80/066		0.8×2	18	6,240(15)	50/50	540×260×148×280×400×516
⑤	SC2S-80/096		1.2×2	25	4,320(21)		
⑥	SC2S-120/096		1.2×2	20	9,600(15)		

Made in Korea

PSS 80-066

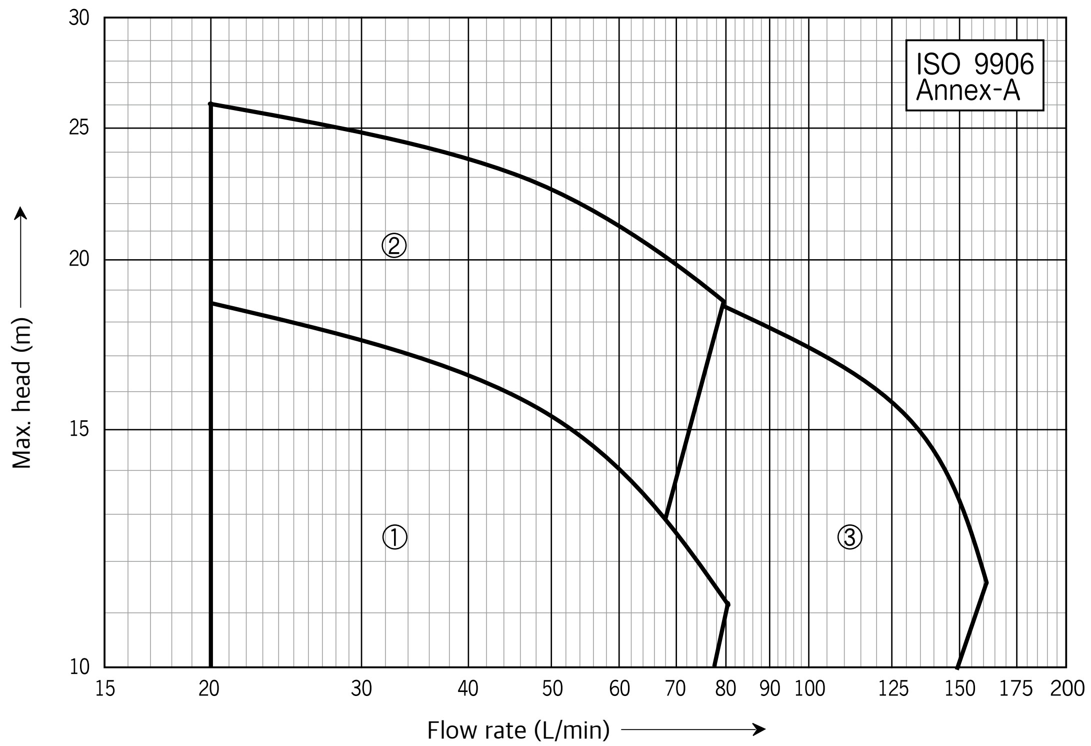


For water supply
Clear water pump

Model selection guide

P	PUMP
S	STAINLESS STEEL
S	STEEL
80/066	PUMP MODEL
NONE -T -4T	SINGLE PHASE 220V THREE PHASE 220/380V THREE PHASE 440V

PERFORMANCE CURVE



APPLICATION

Industrial water
Waste water
Villa, Row houses
Shopping mall
Car wash
Construction site
Sauna

FEATURE

WARM WATER BOOSTER SYSTEM
by stainless steel pumps

- Rust-proof stainless steel
- Max. head up to 25m with Special design
- Available suction lift(2m) with foot valve at the bottom of suction pipe
- Useable warm water at 80'C
- Low noise, Low vibration
- Enhance durability and wear resistance with the Shaft made of STS-316

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
①	PSS 80/066	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	0.8	18	6,160(2)	18	14.3	330×260×210×135
	PSS 80/066-T						13.8	
	PSS 80/066-4T							
②	PSS 80/096		1.2	25	8,160(2)	25	16.7	330×260×210×135
	PSS 80/096-T						16.2	
	PSS 80/096-4T							
③	PSS 120/096		1.2	20	9,400(2)	20	16.7	330×260×210×135
	PSS 120/096-T						16.2	
	PSS 120/096-4T							

※ Available suction lift(2m) when using Foot valve at the bottom of suction pipe

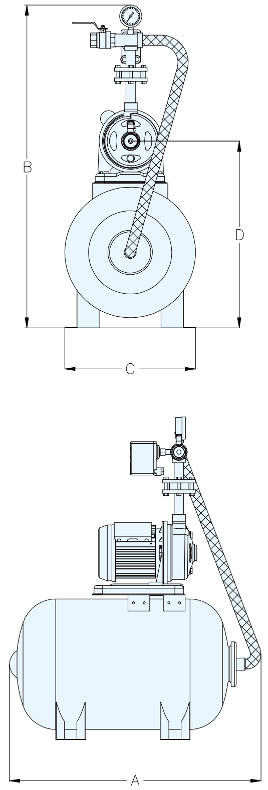
For water supply

Clear water pump

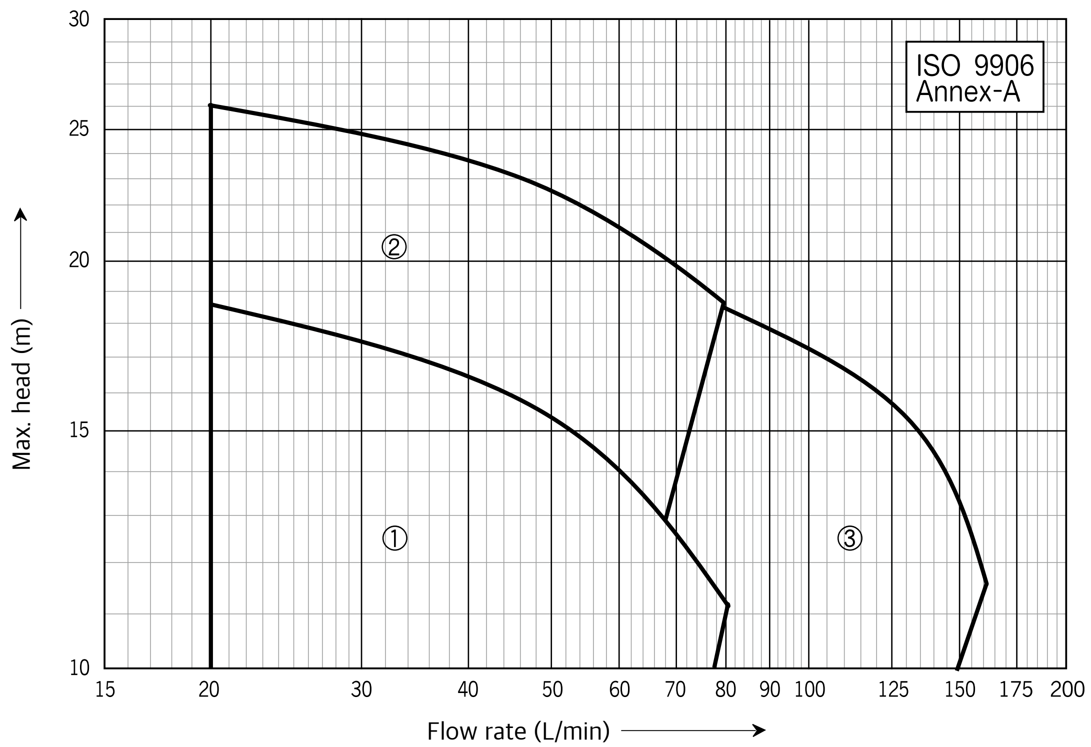
Model selection guide

P	PUMP
S	STAINLESS STEEL
S	STEEL
80/096	PUMP MODEL
KV	NITROGEN TANK HORIZONTAL TYPE
NONE -3T	SINGLE PHASE 220V THREE PHASE 380V

PSS 80-096KV(-3T)



PERFORMANCE CURVE



APPLICATION

FEATURE

WARM WATER BOOSTER SYSTEM

in the multiplex houses, midium-sized building and complex shopping center

- Large capacity and strong corrosion resistance nitrogen tank (KV : 60L)
- Enable to use warm water up to 80℃
- Long-life and quiet operation

SPECIFICATION

Model		Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
①	PSS 80-066KV	None : Single phase 220 3T : Three phase 380	0.8	11	5,120(2)	11	33.6	730×890×380×590
	PSS 80-066KV-3T							
②	PSS 80-096KV		1.2	18	7,200(2)	18	36	
	PSS 80-096KV-3T							
③	PSS 120-096KV		1.2	12	10,700(2)	12	36	
	PSS 120/096KV-3T							

STAINLESS STEEL BOOSTER PUMPS (HORIZONTAL)

HC1

For water supply
Clear water pump

Model selection guide

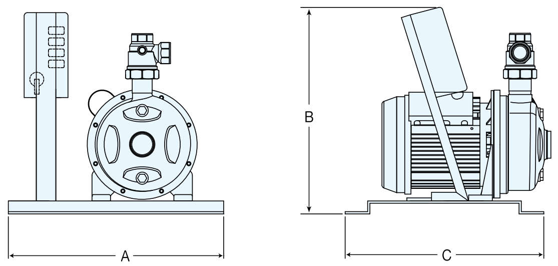
H	HANIL
C	CONTROL
1	THE NUMBER OF PUMP
80/066	PUMP MODEL
-2T -3T -4T	THREE PHASE 220V THREE PHASE 380V THREE PHASE 440V

APPLICATION

Villa, Row houses
Shopping mall
Industrial water
Car wash
Construction site
Sauna

BOOSTER SYSTEM

HC1-80/066

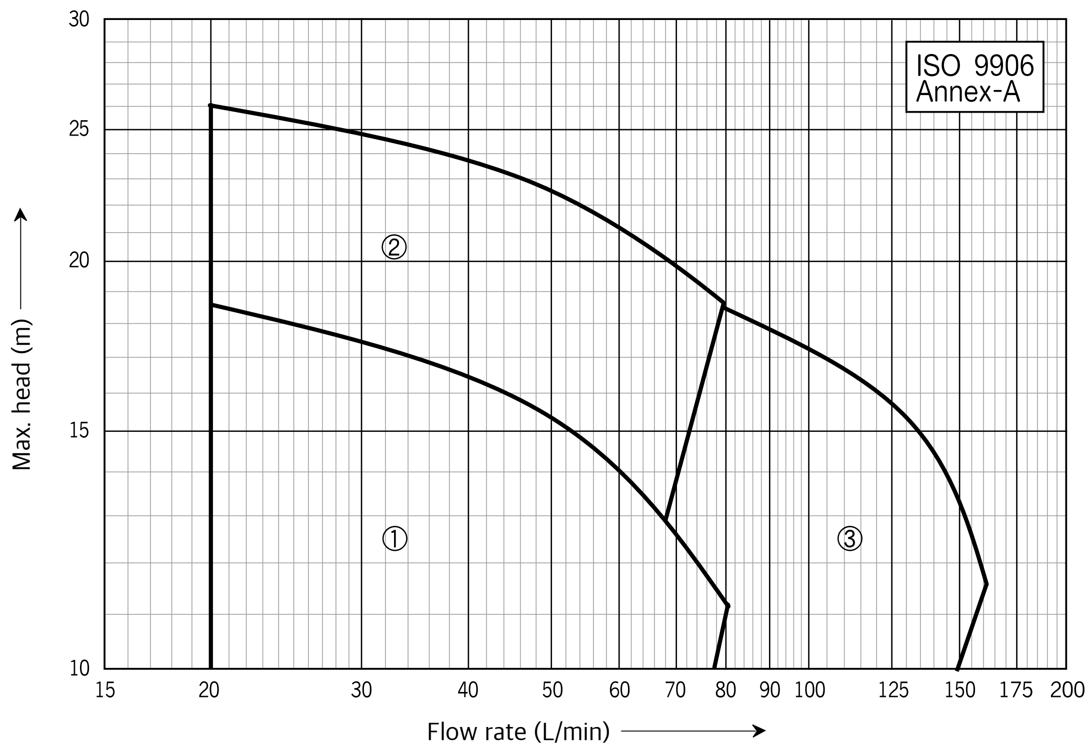


FEATURE

HIGH EFFICIENCY

- Automatic selection either alternative operation or parallel operation depending on water demands
- Pressure sensor type(Pressure+Step operating mode)
- Sanitary by sealing up piping system
- Constant water supply pressure & flow rate
- The earth leakage circuit breaker
- Monitoring working conditioin by LED display
- Water level sensor
- Digital pressure control on/off

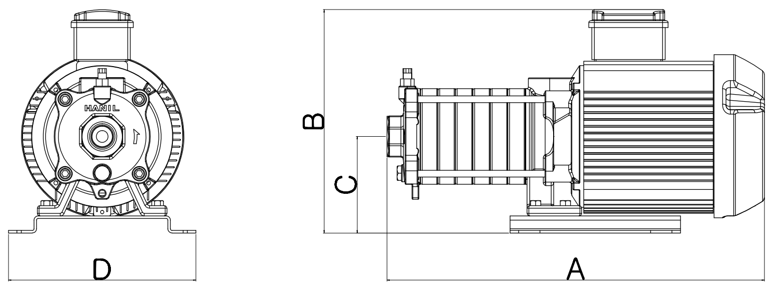
PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C
①	HC1-80/066	None : Single phase 220 2T : Three phase 220 3T : Three phase 380 4T : Three phase 440	0.8	18	2,640(12)	32	25	45	500×600×600
	HC1-80/066-2T								
	HC1-80/066-3T								
	HC1-80/066-4T								
②	HC1-80/096		1.2	25	2,640(20)			47.4	
	HC1-80/096-2T								
	HC1-80/096-3T								
	HC1-80/096-4T								
③	HC1-120/096		1.2	20	5,760(14)			47.4	
	HC1-120/096-2T								
	HC1-120/096-3T								
	HC1-120/096-4T								

AHS-20601(-T/-4T)　　AHG-20601(-T/-4T)



Model selection guide

A	ABSOLUTE
H	HORIZONTAL
G	GRAY CAST IRON
2	25A
06	STAGE
01	1.5HP
-T	NONE : SINGLE PHASE 220V -T : THREE PHASE 220V/380V -4T : THREE PHASE 440V

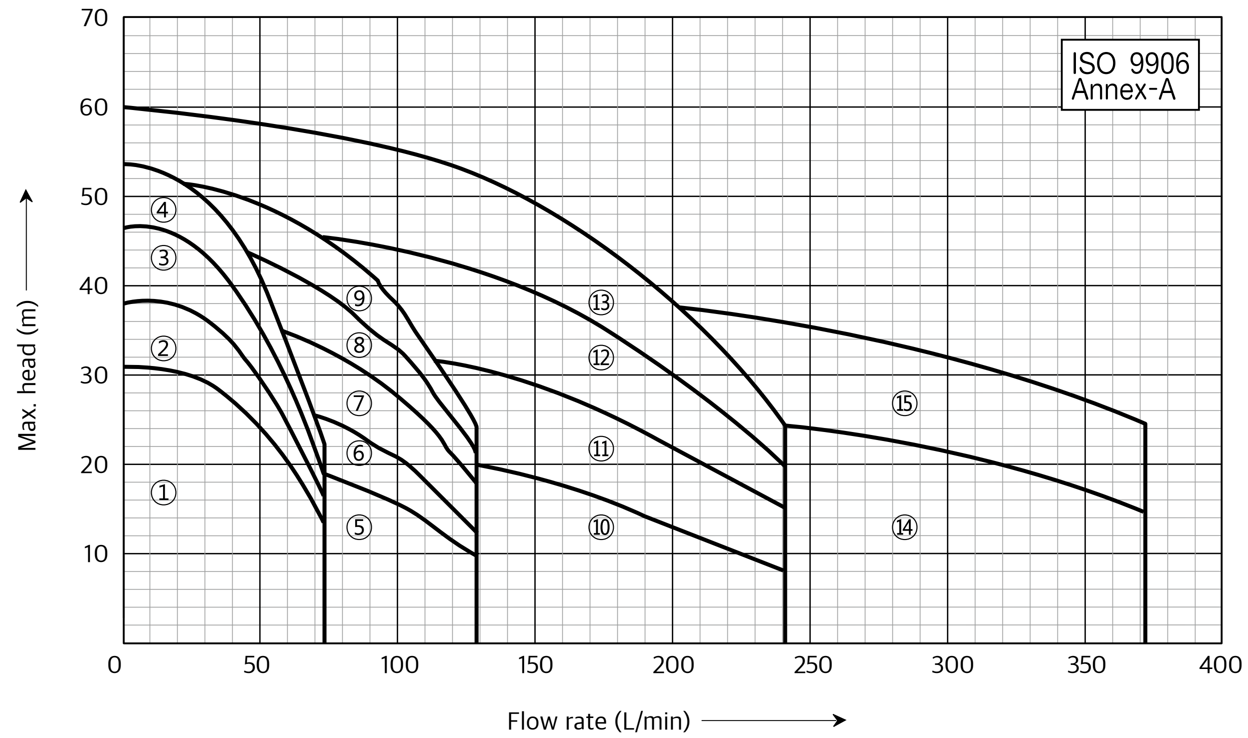
APPLICATION

FEATURE

SUCTION/DISCHARGE CASING
made of LOST-WAX PROCESS

- All stainless steel on the water contact surface(AHS type)
- Totally-enclosed motor aluminum type
- Enable to supply clean water with selectable material cast iron or bronze-HHP type
- Compact design with integral type of shaft and motor
- Enable to use warm water up to 80℃

PERFORMANCE CURVE

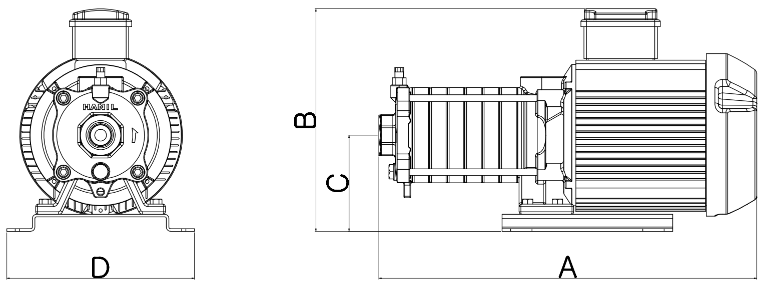


SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
①	AHS(G)-20401 AHS(G)-20401-T AHS(G)-20401-4T	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	1	31	4,800(0.2)	25	0	31	18	387×262×113×220
②	AHS(G)-20501 AHS(G)-20501-T AHS(G)-20501-4T			39				39	18.5	408×262×113×220
③	AHS(G)-20601 AHS(G)-20601-T AHS(G)-20601-4T		1.5	46				46	20	438×262×113×220
④	AHS(G)-20701 AHS(G)-20701-T AHS(G)-20701-4T			54				54	20.5	459×262×113×220

※ Three phase 440V : Configure to order.

AHS-30502(-T/-4T) AHG-30502(-T/-4T)



For water supply
Clear water pump
〈S type only〉

Model selection guide

A	ABSOLUTE
H	HORIZONTAL
S(G)	STAINLESS STEEL/ GRAY CAST IRON
3	32A
05	STAGE
02	2HP
	NONE : SINGLE PHASE 220V -T : THREE PHASE 220V/380V -4T : THREE PHASE 440V

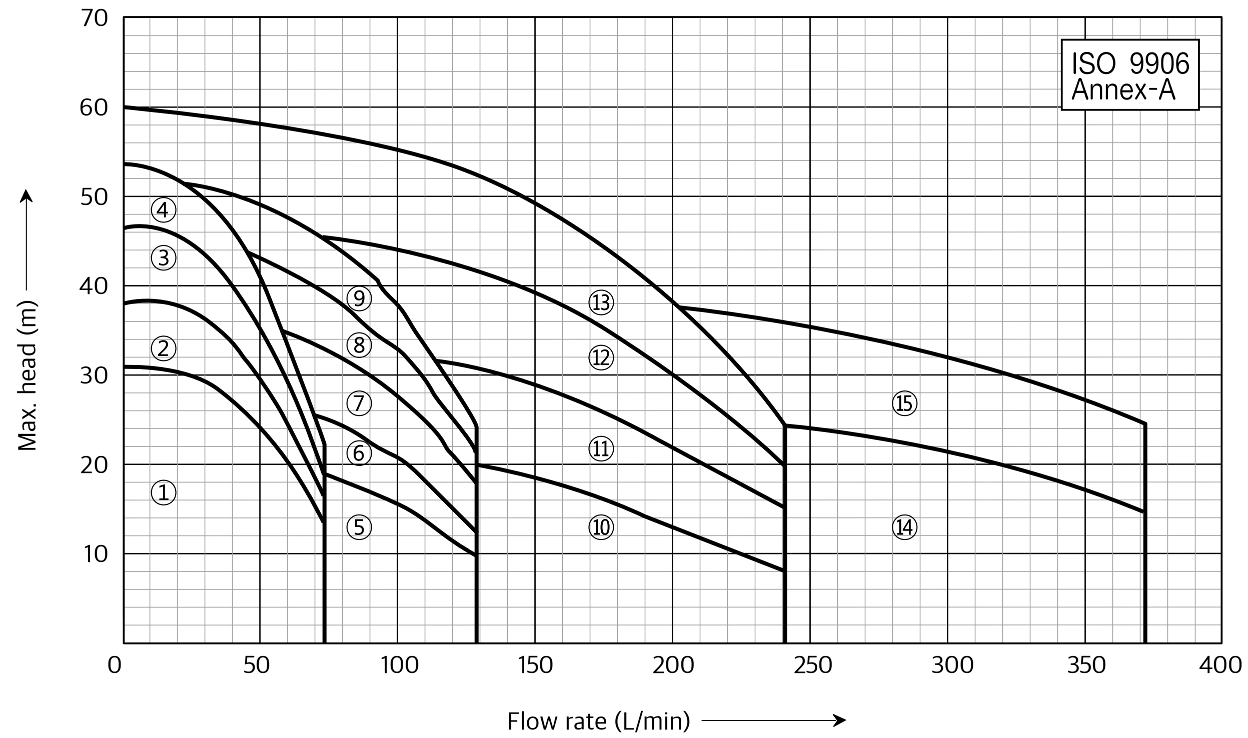
APPLICATION

FEATURE

SUCTION/DISCHARGE CASING
made of LOST-WAX PROCESS

- All stainless steel on the water contact surface(AHS type)
- Totally-enclosed motor aluminum type
- Enable to supply clean water with selectable material cast iron or bronze-HHP type
- Compact design with integral type of shaft and motor
- Enable to use warm water up to 80℃

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
⑤	AHS(G)-30301									
	AHS(G)-30301-T		1	22				22	18	382×262×113×220
	AHS(G)-30301-4T									
⑥	AHS(G)-30401									
	AHS(G)-30401-T		1.5	30				30	18.5	417×262×113×220
	AHS(G)-30401-4T	None : Single phase 220 T : Three phase 220/ 380 4T : Three phase 440								
⑦	AHS(G)-30502									
	AHS(G)-30502-T			38	9,600(0.2)	32	0	38	21.5	447×262×113×220
	AHS(G)-30502-4T		2							
⑧	AHS(G)-30602									
	AHS(G)-30602-T			46				46	22	473×262×113×220
	AHS(G)-30602-4T									
⑨	AHS(G)-30703-T		3	53				53	23.5	509×262×113×220
	AHS(G)-30703-4T									

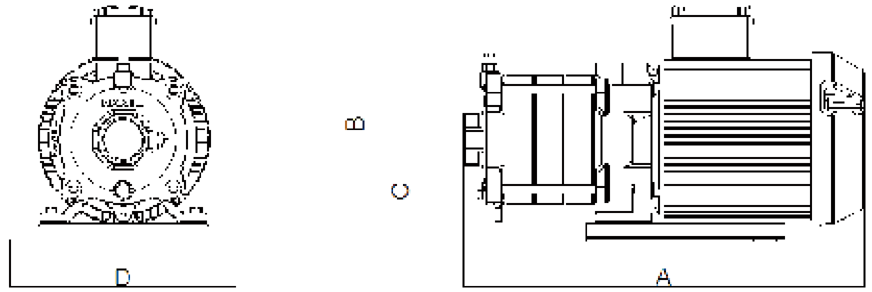
※ Three phase 440V : Configure to order.

Made in Korea

AHS/AHG

AHS-40202(-T/-4T)

AHG-40202(-T/-4T)



For water supply
Clear water pump
〈S type only〉

Model selection guide

A	ABSOLUTE
H	HORIZONTAL
S(G)	STAINLESS STEEL/ GRAY CAST IRON
4	40A
02	STAGE
02	2HP
	NONE : SINGLE PHASE 220V -T : THREE PHASE 220V/380V -4T : THREE PHASE 440V

APPLICATION

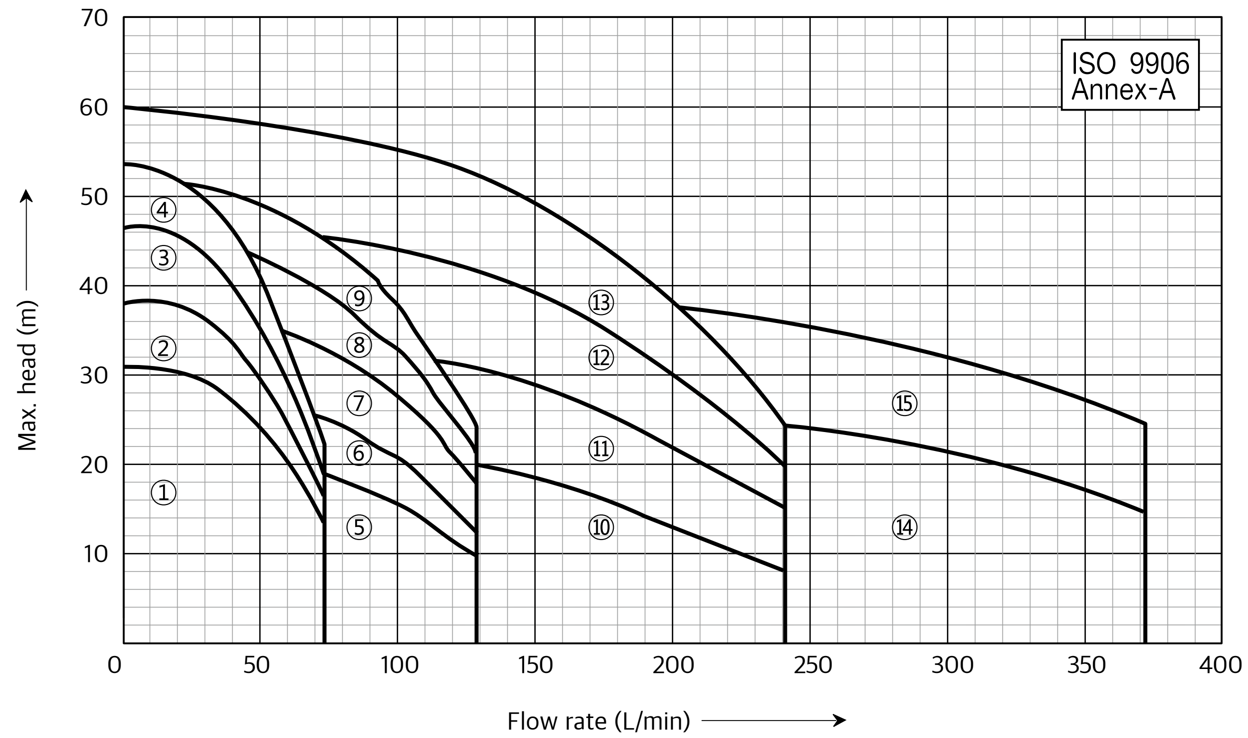
- Sauna, Massage, Gym
- Shopping mall, Building
- Pressurizing warm water
- Car wash
- Circulating cooling water of boiler
- Construction site & Building equipment

FEATURE

SUCTION/DISCHARGE CASING
made of LOST-WAX PROCESS

- All stainless steel on the water contact surface(AHS type)
- Totally-enclosed motor aluminum type
- Enable to supply clean water with selectable material cast iron or bronze-HHP type
- Compact design with integral type of shaft and motor
- Enable to use warm water up to 80℃

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
⑩	AHS(G)-40202	None : Single phase 220 T : Three phase 220/ 380 4T : Three phase 440	2	6.5	32	18,000(0.5)	40	0	32	22.5	402×262×113×250
	AHS(G)-40202-T			5.0/3.0							
	AHS(G)-40202-4T			2.6							
⑪	AHS(G)-40303-T		3	8.0/4.5	50				50	24.5	445×262×113×250
	AHS(G)-40303-4T			4.0							
⑫	AHS-40405-T		5	9.2/5.1	68	22,000(3)			68	41	531×222×113×370
⑬	AHS-40505-T			10.5/6.3	85				85	43	564×222×113×370

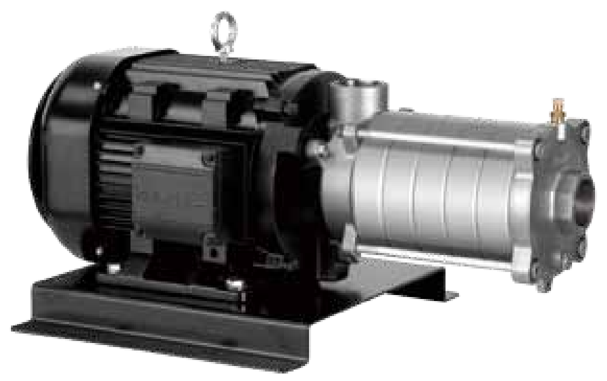
※ Three phase 440V : Configure to order.

For water supply

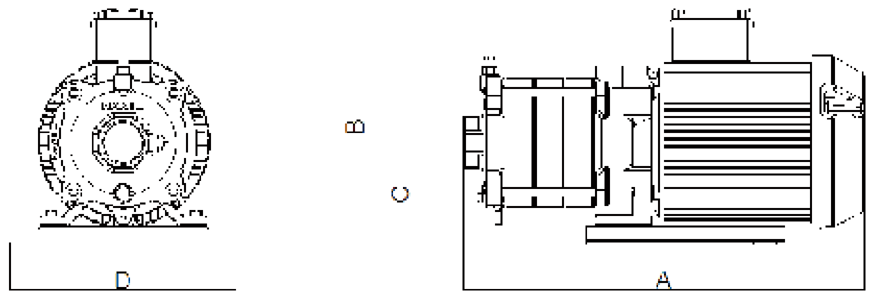
Clear water pump

Model selection guide

A	ABSOLUTE
H	HORIZONTAL
S(G)	STAINLESS STEEL/ GRAY CAST IRON
4	40A
02	STAGE
02	2HP
	NONE : SINGLE PHASE 220V -T : THREE PHASE 220V/380V -4T : THREE PHASE 440V



AHS-5TYPE



APPLICATION

Sauna, Massage, Gym

Shopping mall, Building

Pressurizing warm water

Car wash

Circulating cooling water of boiler

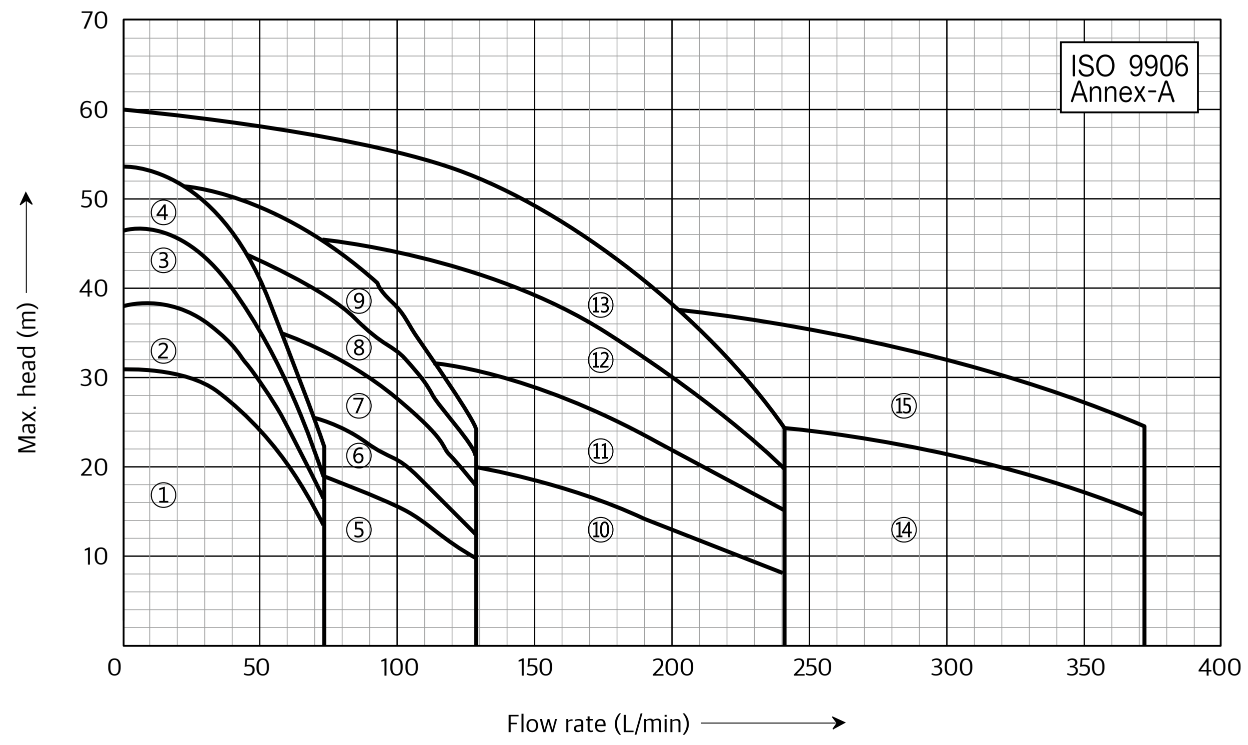
Construction site & Building equipment

FEATURE

SUCTION/DISCHARGE CASING
made of LOST-WAX PROCESS

- All stainless steel on the water contact surface(AHS type)
- Totally-enclosed motor aluminum type
- Enable to supply clean water with selectable material cast iron or bronze-HHP type
- Compact design with integral type of shaft and motor
- Enable to use warm water up to 80℃

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
⑭	AHS-50205-T	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	5	29	25,600(2)	50	0	29	7	533×222×113×370
⑮	AHS-50307-T		7	43				43	51	578×242×113×370

※ Three phase 440V : Configure to order

BOOSTER PUMPS (HORIZONTAL)

HHP

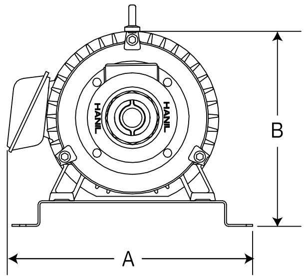
For water supply
Clear water pump
〈B type only〉

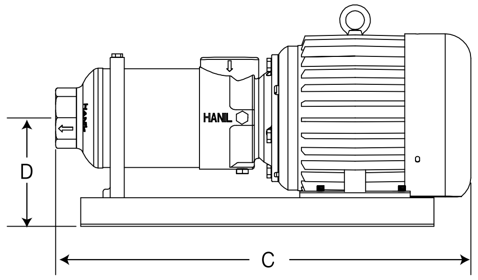
Model selection guide

H	HANIL
H	HORIZONTAL
P	PUMP
5	50A
3	STAGE
03	3HP
B/G	B-BRONZE, G-GREY CAST IRON
T	THREE PHASE 220V/380V
-4T	THREE PHASE 440V

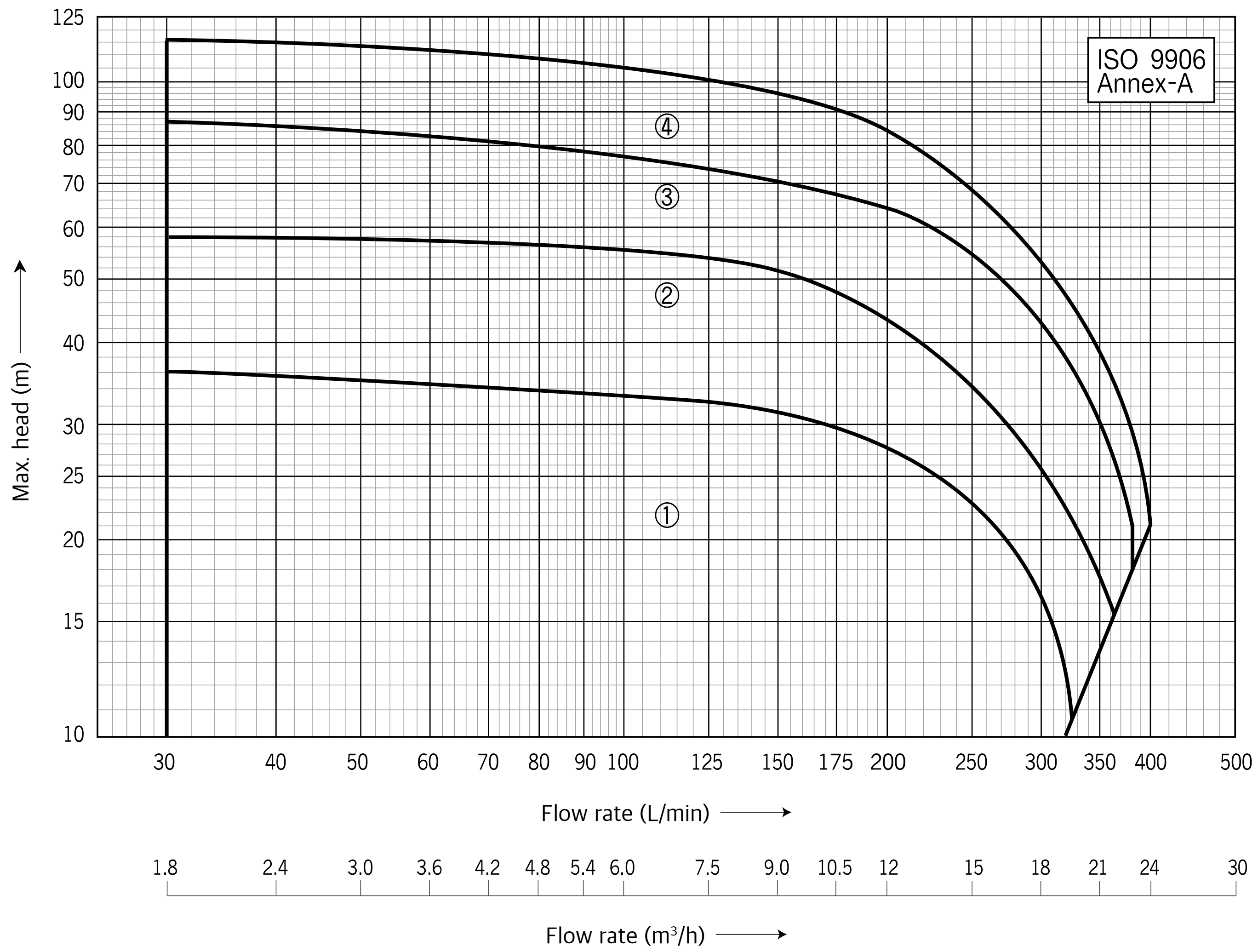
HHP-5303B/G-T(-4T)

HHP-5810B/G-T(-4T)





PERFORMANCE CURVE



APPLICATION

Sauna, Massage, Gym
Shopping mall, Building
Car wash
Construction site & Building equipment

FEATURE

- Rust-proof with Engineering plastic, Stainless steel(Only for Bronze type)
- Enhanced Max.head with special design

HHP

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction, Discharge diameter (A)	Suction lift (m)	Discharge head (m)	Weight (kg)	Dimension(mm) A×B×C×D
①	HHP-5303B-T	T : Three phase 220/380 4T : Three phase 440	3	36	17,900(0.3)	50	0	36	53	345×280×585×153
	HHP-5303B-4T									
	HHP-5303G-T		3						51.5	345×280×585×153
	HHP-5303G-4T									
②	HHP-5405B-T		5	53		50	0	53	60.5	345×280×645×153
	HHP-5405B-4T									
	HHP-5405G-T		5						59	345×280×645×153
	HHP-5405G-4T									
③	HHP-5607B-T		7.5	77		50	0	77	86.5	410×310×735×173
	HHP-5607B-4T									
	HHP-5607G-T		7.5						85	410×310×735×173
	HHP-5607G-4T									
④	HHP-5810B-T		10	105		50	0	105	95	410×310×840×173
	HHP-5810B-4T									
	HHP-5810G-T		10						93.5	410×310×840×173
	HHP-5810G-4T									

※ Enable to operate for 2 meter of suction pipe, if foot valve is assembled.
※ Three phase 440V : Configure to order.

Hanil

24 Hours
Delivery Guarantee
Only Domestic Sales
(S. Korea)

Volute Industrial Pumps

CVH-MS

◇ Extensive usage range by standardization of flow rate and Max. head
◇ Stuffing box : KSB7501(ISO3069)
◇ Easy to maintain with Back pull out type
◇ High compatibility with standard parts
◇ Selectable material(STS, Bronze or Brass) by liquid used
◇ Standard feature : MS(Mechanical seal) *Gland packing is optional
◇ Enable to maintain safety and balance with discharge port located on top center

24 Hours Delivery Guarantee Only Domestic Sales (S. Korea)

Model selection guide

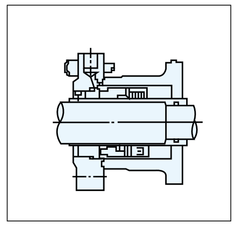
C	CENTRIFUGAL
V	VOLUTE
H	HORIZONTAL
50	SUCTION DIAMETER 50MM
40	DISCHARGE DIAMETER 40MM
05	OUTPUT 5(HP)
B	IMPELLER OUTER DIAMETER B : Ø160, C : Ø200 D : Ø250, E : Ø315
MS GP	MECHANICAL SEAL GLAND PACKING
-T -4T	THREE PHASE 220V/380V THREE PHASE 440V

APPLICATION

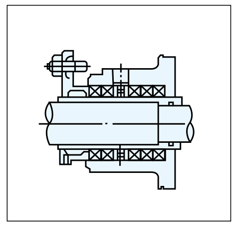
- Apartment
- Building firefighting
- Hotel
- Shopping mall
- Hospital & School
- Agricultural water
- Industrial water
- Cool & Warm water cooling circulation
- For industrial drainage

CVH-Series

SHAFT SEAL



Mechanical Seal
(Standard type)



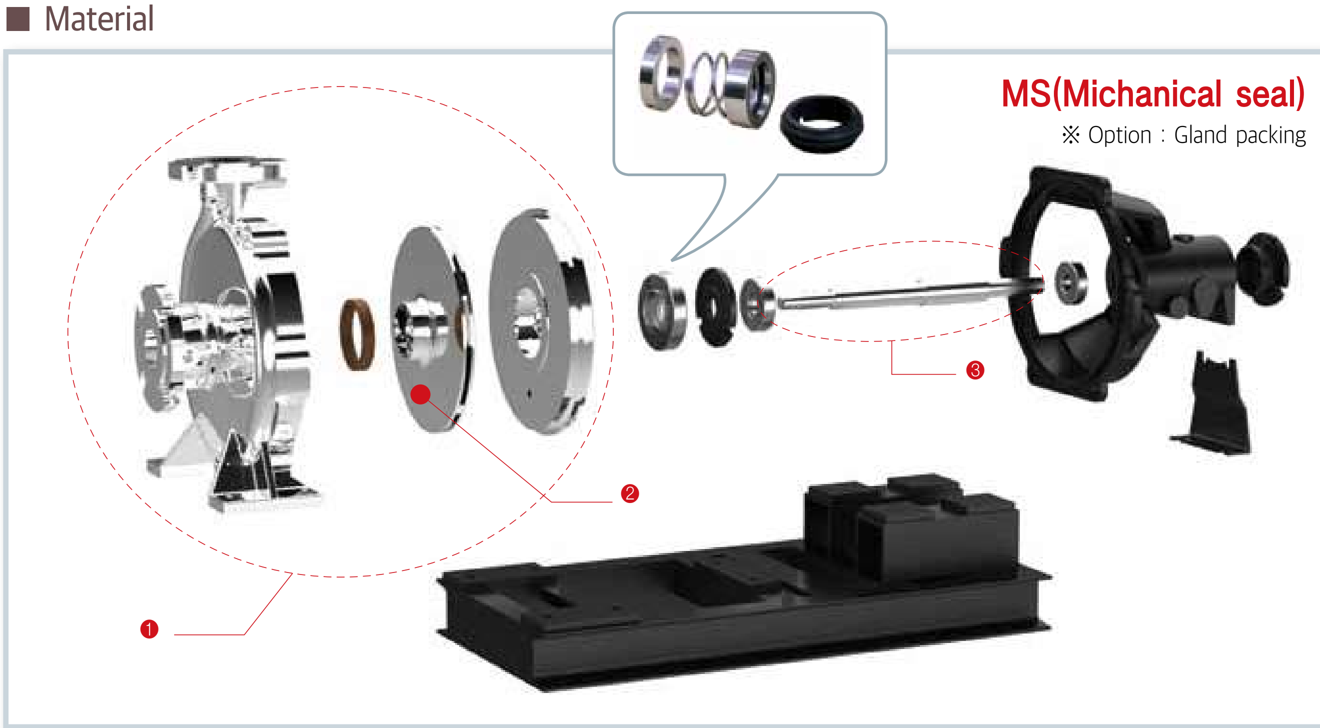
Gland Packing
(Option type)

Standard feature		
Parts		Remark
liquid		Clean water(Ph:5.8~8.6) 0~90℃
Head before suction	Discharge diameter	Based on liquid temperature 20℃
	(Ø50~Ø80)	Within -6m
	(Ø100~Ø125)	Within -5m
Structure	Impeller	Closed type
	Shaft seal	MS(Mechanical seal)
	Bearing	Ball bearing
Flange		KS B 1511 10K, RF, FF
Direction of rotation		CW (From motor to pump direction)
Material	Casing	GC200
	Impeller	GC200
	Shaft	SM45C

Enable to block leakage perfectly with Mechanical Seal type

※ The type of Mechanical Seal and material are general type. Special seal can be optional.

■ Material



1 Casing + Casing cover

- STS-304/SSC-13
- STS-316/SSC-14

- BC6 : Bronze casting

- BsC : Brass casting

- Ductile
- Gray : Gray cast iron

2 Impeller

- STS-304/SSC-13
- STS-316/SSC-14

- BC6 : Bronze casting

- BsC : Brass casting

- Ductile
- Gray : Gray cast iron

3 Shaft

- STS-304
- STS-316
- SM-45C_Choose from Carbon steel

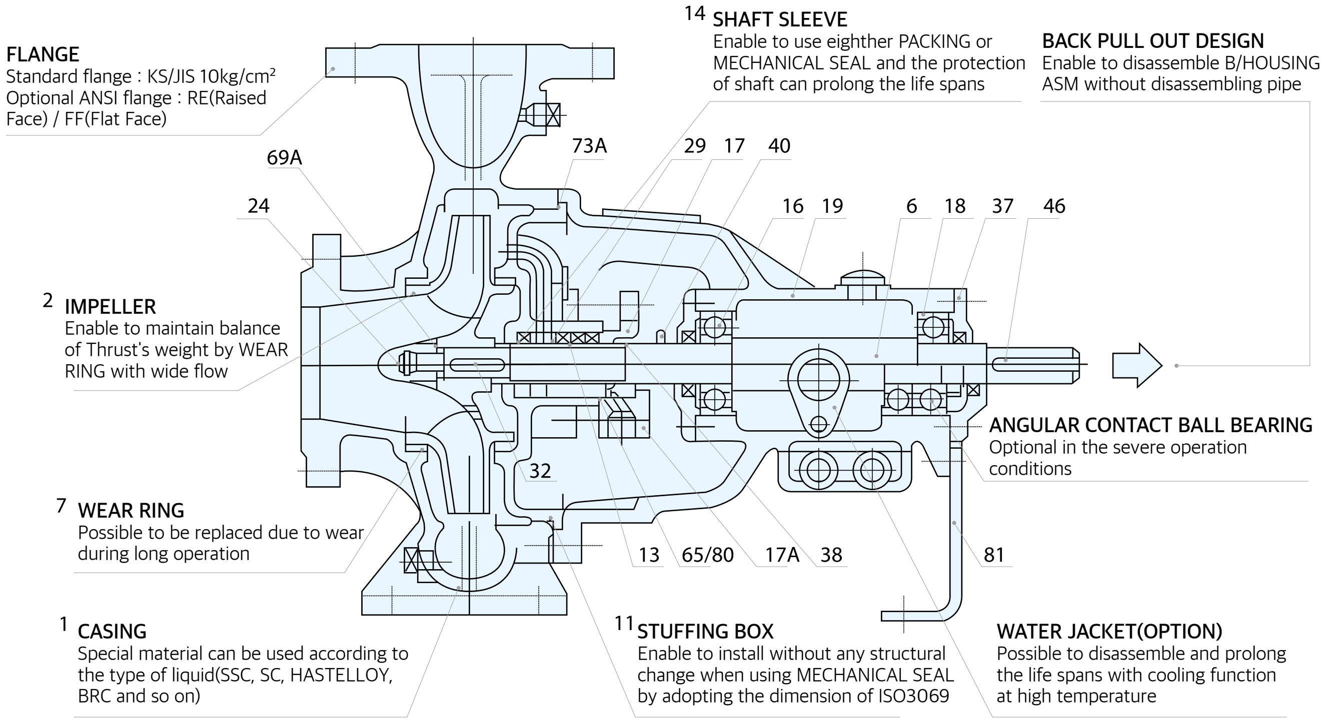
4 Vibration absorbed base

- SPHC
- Choose from STS-304

CVH

Cross section

▶▷ Feature

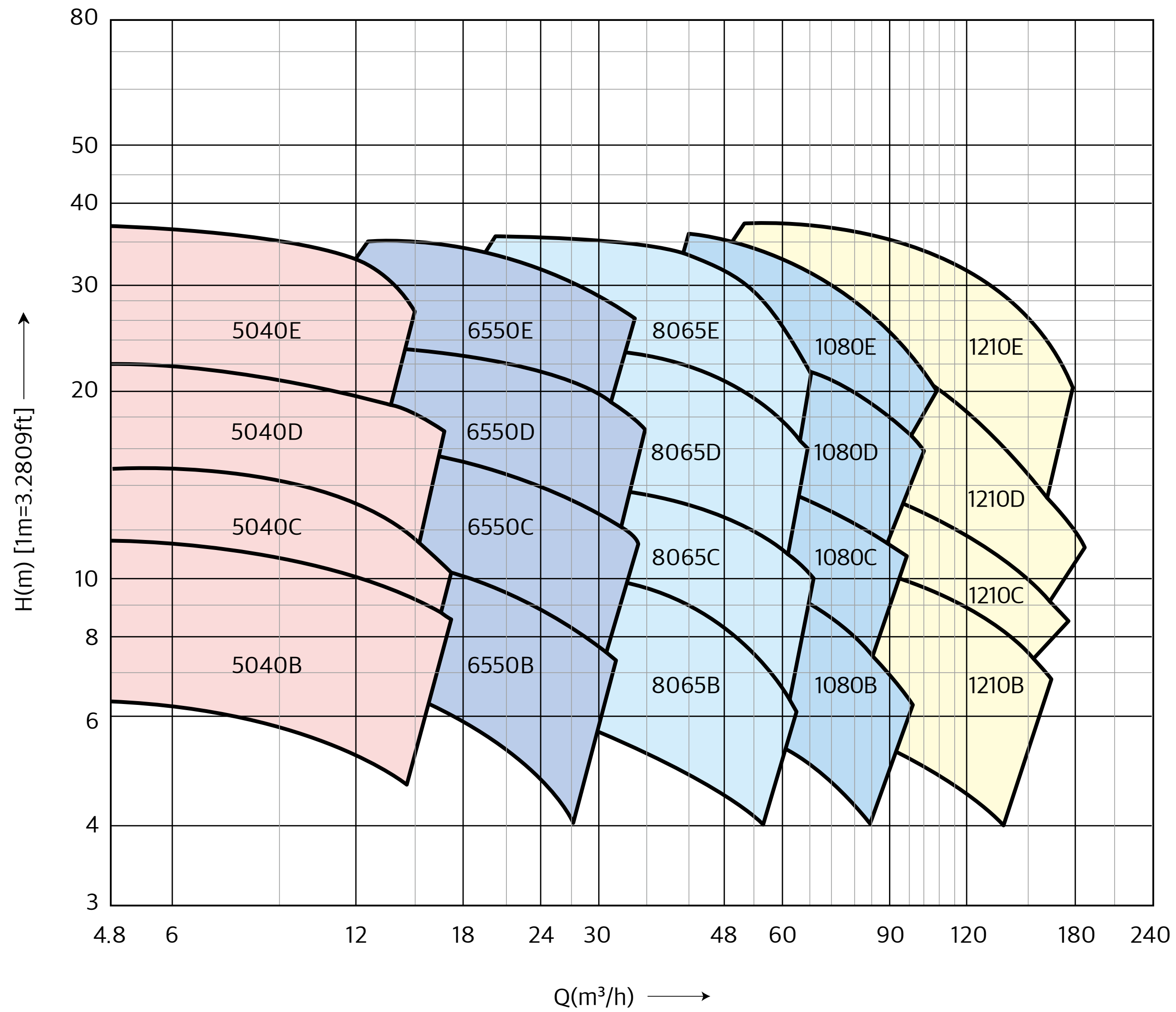


▶▷ List of material

NO.	NAME OF PART	Material		
		CLASS 1	CLASS 2	CLASS 3
1	CASING	GC200	SSC14	SSC14
2	IMPELLER	GC200	SSC14	SSC14
6	SHAFT	SM45C	STS304	STS316
7	WEAR RING	GC200	SSC14	SSC14
11	STUFFING BOX	GC200	SSC14	SSC14
13	PACKING	TEFLON	TEFLON	TEFLON
14	SHAFT SLEEVE	STS304	STS304	STS316
16	INBOARD BEARING	STEEL	STEEL	STEEL
17	PACKING GLAND	GC200	SSC14	SSC14
17A	MECHANICAL SEAL COVER	SM45C	SSC14	SSC14
18	OUTBOARD BEARING	STEEL	STEEL	STEEL
19	BEARING HOUSING	GC200	GC200	GC200

NO.	NAME OF PART	Material		
		CLASS 1	CLASS 2	CLASS 3
24	IMPELLER NUT	SM45C	STS304	STS316
29	LANTERN RING	MC NY-LON	SSC14	SSC14
32	IMPELLER KEY	SM45C	STS304	STS316
37	BEARING COVER	GC200	GC200	GC200
38	SLEEVE GASKET	NON ASBESTOS		
40	DEFLECTOR	NBR	NBR	NBR
46	COUPLING KEY	SM45C	SM45C	SM45C
65/80	MECHANICAL SEAL	CA / SIC		
69A	LOCK WASHER	SM45C	-	-
73A	CASING GASKET	NBR	NBR	NBR
81	SUPPORT	SS41	SS41	SS41

PERFORMANCE CURVE



SELECTION TABLE

1750RPM(60Hz, 4P)

H \ Q	2.4	4.8	9.6	9.6	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0	57.6	67.2	96.0	120.0	144.0	180	H
55							10080E 15 2.5				125100E 22 3	125100E 22 2.4							55
39					8065E 15 3	8065E 15 3	10080E 15 2.8	10080E 15 2	10080E 15 1.8	10080E 18.5 1.7	125100E 18.5 2	125100E 22 2.4	125100E 30 2.2	125100E 30 2.3	125100E 30 2.4				39
36	5040E 5.5 4.2	5040E 7.5 3.3		6550E 11 3	8065E 11 2	8065E 11 3	8065E 15 2.8	10080E 15 2	10080E 15 1.8	10080E 18.5 1.7	10080E 18.5 2	125100E 22 2.4	125100E 22 2.2	125100E 30 2.3	125100E 30 2.4	125100E 30 2.5			36
34	5040E 5.5 4.2	5040E 5.5 3.3	5040E 7.5 2.8	6550E 11 3	6550E 11 2	8065E 11 3	8065E 15 2.8	8065E 15 2	10080E 15 2	10080E 18.5 1.7	10080E 18.5 2	10080E 18.5 2	125100E 22 2.2	125100E 22 2.3	125100E 30 2.4	125100E 30 2.5			34
32	5040E 5.5 3.3	5040E 5.5 2.6	5040E 7.5 2.8	6550E 7.5 3	6550E 11 2	8065E 11 2.1	8065E 11 2.8	8065E 15 2	8065E 15 2	10080E 15 2.2	10080E 18.5 2	10080E 18.5 2	10080E 22 2.2	125100E 22 2.3	125100E 30 2.4	125100E 30 2.5	125100E 30 2.7		32
31	5040E 5.5 3.3	5040E 5.5 2.6	5040E 5.5 2.4	6550E 7.5 2.8	6550E 11 2	6550E 11 2.1	8065E 11 2.8	8065E 15 2	8065E 15 2	8065E 15 2.2	10080E 18.5 2	10080E 18.5 2	10080E 18.5 2.2	10080E 22 2.3	125100E 22 2.4	125100E 30 2.5	125100E 30 2.7		31
29	5040E 5.5 3.3	5040E 5.5 2.6	5040E 5.5 2.4	6550E 7.5 2.8	6550E 11 2.5	6550E 11 2.1	8065E 11 2.7	8065E 15 2	8065E 15 2	8065E 15 2.2	8065E 15 2.3	10080E 15 2	10080E 18.5 2.2	10080E 18.5 2.3	125100E 22 2.4	125100E 30 2.5	125100E 30 2.7		29
28	5040E 3.7 3.8	5040E 5.5 3.1	5040E 5.5 2.4	6550E 7.5 2.8	6550E 7.5 2.5	6550E 11 2.3	6550E 11 2.7	8065E 15 2	8065E 15 2	8065E 15 2.2	8065E 15 2.3	10080E 15 2	10080E 18.5 2.2	10080E 18.5 2.3	125100E 22 2.4	125100E 30 2.5	125100E 30 2.7	125100E 37 3.2	28
27	5040E 3.7 3.8	5040E 5.5 3.1	5040E 5.5 2.2	6550E 7.5 2.8	6550E 7.5 2.5	6550E 11 2.3	6550E 11 2.7	8065E 15 2	8065E 15 2	8065E 15 2.2	8065E 15 2.3	10080E 15 2	10080E 18.5 2.2	10080E 18.5 2.3	10080E 22 2.5	125100E 30 2.5	125100E 30 2.8	125100E 37 3.2	27
25	5040E 3.7 3.8	5040E 5.5 3.1	5040E 5.5 2.2	6550E 7.5 2.8	6550E 7.5 2.3	6550E 11 2.3	6550E 11 2.7	6550E 11 1.8	8065E 11 2	8065E 11 2.2	8065E 15 2.3	8065E 15 2.4	10080E 18.5 2.2	10080E 18.5 2.3	10080E 22 2.5	125100E 22 2.8	125100E 30 2.8	125100E 37 3.2	25
24	5040E 3.7 3.8	5040E 3.7 3.1	5040E 5.5 2.2	6550D 5.5 2.6	6550E 7.5 2.3	6550E 11 2.4	6550E 11 2.7	6550E 11 2.7	8065E 11 2	8065E 11 2.2	8065E 15 2.3	8065E 15 2.4	10080E 18.5 2.2	10080E 18.5 2.3	10080E 18.5 2.5	125100E 30 2.8	125100E 30 2.8	125100E 37 3.2	24
22	5040D 3.7 4	5040E 3.7 3.1	5040E 5.5 2.2	6550D 5.5 2.6	6550D 5.5 2.5	6550E 7.5 2.4	6550E 11 2.7	8065D 11 1.9	8065D 11 2	8065E 11 2.2	8065E 15 2.3	8065E 15 2.4	10080E 15 2.5	10080E 15 2.3	10080E 18.5 2.5	10080E 22 2.8	125100E 30 2.8	125100E 37 3	22
21	5040D 2.2 4	5040D 3.7 3.5	5040D 3.7 2.1	6550D 5.5 2.6	6550D 5.5 2.5	6550D 5.5 2.2	6550E 11 2.7	8065D 7.5 1.9	8065D 7.5 2	8065D 11 2	8065D 11 2.1	8065E 15 2.4	10080D 15 2.5	10080D 15 2.7	10080E 18.5 2.5	10080D 18.5 3	125100E 22 3	125100E 30 3	21
20	5040D 2.2 4	5040D 2.2 3.5	5040D 3.7 2.1	5040D 3.7 2.2	6550D 5.5 2.5	6550D 5.5 2.2	6550D 5.5 2.4	8065D 7.5 1.9	8065D 7.5 1.8	8065D 7.5 2	8065D 11 2.1	8065D 11 2.2	10080D 11 2.5	10080D 15 2.7	10080D 15 2.7	10080D 15 3	125100D 18.5 3	125100E 30 3	20
18	5040D 2.2 4	5040D 2.2 3.5	5040D 3.7 2	5040D 3.7 2.2	6550D 5.5 2.5	6550D 5.5 2.2	6550D 5.5 2.4	6550D 7.5 2	8065D 7.5 1.8	8065D 7.5 2	8065D 7.5 2	8065D 11 2.2	10080D 11 2.5	10080D 11 2.7	10080D 15 2.7	10080D 15 2.8	125100D 15 3.5		18
17	5040D 2.2 4	5040D 2.2 3.5	5040D 3.7 2	5040D 3.7 2.2	6550D 3.7 2.5	6550D 5.5 2.2	6550D 5.5 2.4	6550D 5.5 2	8065D 7.5 1.8	8065D 7.5 2	8065D 7.5 2	8065D 11 2.2	10080D 11 2.5	10080D 11 2.7	10080D 11 2.7	10080D 15 2.8	125100D 15 3.5	125100D 18.5 3.2	17
15	5040D 1.5 2.5	5040D 1.5 2.2	5040D 2.2 2	5040D 3.7 2.2	6550D 3.7 2.5	6550D 5.5 2.2	6550D 5.5 2.4	6550D 5.5 2	8065D 5.5 1.8	8065D 5.5 2	8065D 7.5 2	8065D 7.5 2.2	10080D 11 2.5	10080D 11 2.7	10080D 11 2.7	10080D 15 2.8	125100D 15 3.5	125100D 18.5 3.2	15
14	5040C 1.5 2.5	5040C 1.5 2.2	5040D 2.2 2	5040D 2.2 2.2	6550C 3.7 2.2	6550C 3.7 2.3	6550D 5.5 2.4	6550D 5.5 2	8065D 5.5 2	8065D 5.5 2	8065D 7.5 2	8065D 7.5 2.2	10080D 7.5 2.5	10080D 11 2.7	10080D 11 2.7	125100C 11 2.8	125100D 15 3.5	125100D 15 3.2	14
13	5040C 1.5 3	5040C 1.5 2.2	5040C 1.5 2	5040D 2.2 1.8	6550C 3.7 2.2	6550C 3.7 2.3	6550C 3.7 2.4	6550D 5.5 2	8065C 5.5 2	8065C 5.5 2	8065D 5.5 2.2	8065D 7.5 2.2	10080C 7.5 2.5	10080C 7.5 2.8	10080D 11 2.7	125100C 11 2.8	125100C 11 3.3	125100D 15 3.2	13
11	5040C 1.5 3	5040C 1.5 2.2	5040C 1.5 2	5040C 2.2 1.8	6550C 2.2 2.2	6550C 3.7 2.3	6550C 3.7 2.4	6550C 3.7 2.5	8065C 3.7 2	8065C 5.5 2	8065C 5.5 2	8065C 5.5 2.4	10080C 5.5 2.5	10080C 7.5 2.9	10080C 7.5 3	125100C 7.5 2.8	125100C 11 3.3	125100C 15 3.6	11
10	5040B 1.5 3.8	5040B 1.5 3.1	5040C 1.5 2	5040C 2.2 1.8	6550C 2.2 2.2	6550C 2.2 2.3	6550C 3.7 2.4	6550C 3.7 2.5	8065C 3.7 2	8065C 3.7 2	8065C 3.7 2	8065C 5.5 2.4	10080C 5.5 2.5	10080C 5.5 2.9	10080C 7.5 3	125100B 7.5 3.3	125100C 11 3.3	125100C 11 3.6	10
8	5040B 0.75 2.8	5040B 1.5 2.5	5040B 1.5 2	5040B 1.5 2	6550B 1.5 2	6550B 2.2 2.3	6550C 3.7 2.4	6550C 3.7 2.5	8065B 3.7 2	8065B 3.7 2.5	8065B 3.7 2.5	8065C 3.7 2.3	10080B 5.5 3	10080C 5.5 2.9	125100B 7.5 3.5	125100B 7.5 3.3	125100B 11 3.8	125100C 11 3.6	8
7	5040B 0.75 2.8	5040B 0.75 2.5	5040B 1.5 2	5040B 1.5 2	6550B 1.5 2	6550B 2.2 2.3	6550B 2.2 2.8	8065B 2.2 3.8	8065B 2.2 2.8	8065B 2.2 2.7	8065B 3.7 3	8065B 3.7 3.2	10080B 3.7 3	10080B 5.5 3.2	10080B 5.5 3.4	125100B 5.5 3.5	125100B 7.5 3.8	125100B 11 4	7
6	5040B 0.75 2.8	5040B 0.75 2.5	5040B 0.75 2	5040B 1.5 3.5	6550B 1.5 2	6550B 1.5 2.3	6550B 2.2 2.8	8065B 2.2 3.8	8065B 2.2 2.6	8065B 2.2 2.5	8065B 2.2 3	8065B 3.7 3.2	10080B 3.7 3	10080B 3.7 3.2	10080B 5.5 3.4	125100B 5.5 3.5	125100B 5.5 3.8	125100B 7.5 4	6
4						6550B 1.5 2.3			8065B 1.5 2.6	8065B 1.5 2.5	8065B 2.2 3		10080B 3.7 3	10080B 3.7 3.2	10080B 3.7 3.4				4
H \ Q	2.4	4.8	9.6	9.6	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0	57.6	67.2	96.0	120.0	144.0	180	Q \ H

※ How to view the SELECTION TABLE

1. H : Head(m), Q : Flow Rate(m^3/h), Numerical value in the box : Model and Power(KW), NPSHre(m)
2. The basic material of impeller and casing is gray cast iron. Other than bronze, special material is optional
3. The selection table could be changed depending on the detailed usage environment
4. Intemediate specification that unmarked in the table shall apply to upper level pump

OUTSIDE VIEW

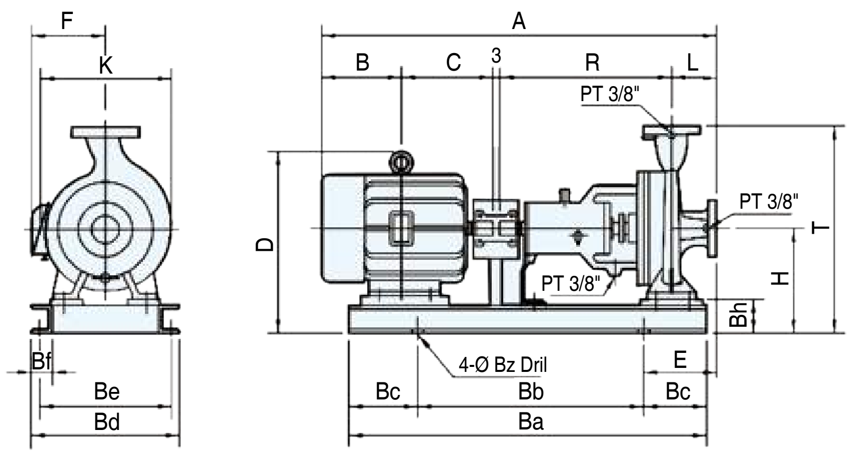


FIG.A

※ Specific dimensions of motor are subject to be changed depending on motor manufacturer.

SPECIFICATION

Model	MOTOR (HP)	PUMP & MOTOR Dimension(mm)											BED ASM Dimension(mm)								WEIGHT(kg)	
		A	B	C	D	E	F	H	K	L	R	T	Ba	Bd	Bh	Bb	Bc	Be	Bf	Bz	P.B	P.B.M
CVH-5040B	1	707	124	140	305	120	144	217	250	80	360	377	650	290	85	450	100	255	40	15	62	77
	2	761	149	169	313	145	166	217	250	80	360	377	700	350	85	450	125	315	40	15	63	87
	3	783	155	185	379	145	187	217	250	80	360	377	750	290	85	500	125	255	40	15	63	100
CVH-5040C	2	781	149	169	341	165	166	245	290	100	360	425	700	350	85	450	125	315	40	15	70	94
	3	803	155	185	407	165	187	245	290	100	360	425	750	350	85	500	125	315	40	15	71	108
	5	832	169	200	407	165	187	245	290	100	360	425	750	350	85	500	125	315	40	15	71	113
CVH-5040D	3	803	155	185	427	153	187	265	350	100	360	490	750	350	85	500	125	315	40	15	81	118
	5	832	169	200	427	153	187	265	350	100	360	490	750	350	85	500	125	315	40	15	81	123
	7.5	907	205	239	444	178	213	265	350	100	360	490	850	350	85	550	150	315	40	15	86	147
CVH-5040E	5	967	169	200	472	203	187	310	415	125	470	560	850	410	85	550	150	375	40	15	124	166
	7.5	1042	205	239	489	228	213	310	415	125	470	560	950	410	85	600	175	375	40	15	126	187
	10	1082	226	258	489	228	213	310	415	125	470	560	950	410	85	600	175	375	40	15	126	202
	15	1193	272	323	544	278	265	335	415	125	470	585	1050	440	110	600	225	395	50	19	128	235

※ P.B : Weight without motor, P.B.M : Weight including motor

SPECIFICATION

Model	MOTOR (HP)	PUMP & MOTOR Dimension(mm)											BED ASM Dimension(mm)								WEIGHT(kg)	
		A	B	C	D	E	F	H	K	L	R	T	Ba	Bd	Bh	Bb	Bc	Be	Bf	Bz	P.B	P.B.M
CVH-6550B	2	781	149	169	341	165	166	245	255	100	360	425	700	350	85	450	125	315	40	15	66	90
	3	803	155	185	407	165	187	245	255	100	360	425	750	350	85	500	125	315	40	15	67	101
	5	832	169	200	407	165	187	245	255	100	360	425	750	350	85	500	125	315	40	15	67	109
CVH-6550C	3	803	155	185	407	165	187	245	305	100	360	445	750	350	85	500	125	315	40	15	73	107
	5	832	169	200	407	165	187	245	305	100	360	445	750	350	85	500	125	315	40	15	73	115
	7	907	205	239	424	175	213	245	305	100	360	445	800	350	85	500	150	315	40	15	77	138
CVH-6550D	5	832	169	200	427	153	187	265	350	100	360	490	750	350	85	500	125	315	40	15	88	130
	7.5	907	205	239	444	178	213	265	350	100	360	490	850	350	85	550	150	315	40	15	93	154
	10	947	226	258	444	178	213	265	350	100	360	490	850	350	85	550	150	315	40	15	93	169
CVH-6550E	5	967	169	200	472	203	187	310	415	125	470	590	850	410	85	550	150	375	40	15	126	168
	7.5	1042	205	239	489	228	213	310	415	125	470	590	950	410	85	600	175	375	40	15	128	189
	10	1082	226	258	489	228	213	310	415	125	470	590	950	410	85	600	175	375	40	15	128	204
	15	1193	272	323	544	278	265	335	415	125	470	615	1050	440	110	600	225	395	50	19	130	237
	20	1237	294	345	544	203	265	335	415	125	470	615	1100	440	110	400	150	395	50	19	131	238
CVH-8065B	3	803	155	185	407	153	187	245	275	100	360	445	750	350	85	500	125	315	40	15	74	111
	5	832	169	200	407	153	187	245	275	100	360	445	750	350	85	500	125	315	40	15	74	116
	7.5	907	205	239	424	178	213	245	275	100	360	445	800	350	85	500	150	315	40	15	78	139
CVH-8065C	5	832	169	200	427	155	187	265	345	100	360	490	750	350	85	500	125	315	40	15	78	120
	7.5	907	205	239	444	180	213	265	345	100	360	490	850	350	85	550	150	315	40	15	83	144
	10	947	226	258	444	180	213	265	345	100	360	490	350	350	85	550	150	315	40	15	83	159
CVH-8065D	10	1057	226	258	464	185	213	285	370	100	470	535	950	410	85	600	175	375	40	15	113	189
	15	1168	272	323	494	200	265	285	370	100	470	535	1120	470	85	740	190	440	40	15	117	224
	20	1212	294	345	451	200	265	285	370	100	470	535	1120	470	85	740	190	440	40	15	116	238
CVH-8065E	15	1193	272	323	544	185	265	335	410	125	470	615	1100	440	110	400	150	395	50	19	137	244
	20	1237	294	345	544	185	265	335	410	125	470	615	1100	440	110	400	150	395	50	19	137	259
	30	1243	293	352	581	185	286	335	410	125	470	615	1150	440	110	425	150	395	50	19	154	339
CVH-10080B	5	857	169	200	427	177.5	187	265	310	125	360	490	750	350	85	500	125	315	40	15	86	129
	7.5	932	205	239	444	202.5	213	265	310	125	360	490	850	350	85	550	150	315	40	15	92	158
	10	972	226	258	444	202.5	213	265	310	125	360	490	850	350	85	550	150	315	40	15	92	172
CVH-10080C	7.5	1042	205	239	444	222	213	265	330	125	470	515	1000	470	85	660	170	440	40	15	116	182
	10	1082	226	258	444	222	213	265	330	125	470	515	1000	470	85	660	170	440	40	15	116	196
	15	1193	272	323	497	279.5	265	290	330	125	470	540	1050	440	110	600	225	395	50	19	120	237
CVH-10080D	15	1193	272	323	517	185	265	310	380	125	470	590	1100	440	110	400	150	395	50	19	137	254
	20	1237	294	345	517	185	265	310	380	125	470	590	1100	440	110	400	150	395	50	19	137	276
	25, 30	1243	293	352	556	185	286	310	380	125	470	590	1150	440	110	400	150	395	50	19	137	314,322
CVH-10080E	25, 30	1243	293	352	606	185	286	360	435	125	470	675	1150	440	110	425	150	395	50	19	158	335,343
	40	1288	319	371	606	185	286	360	435	125	470	675	1150	440	110	425	150	395	50	19	158	368
CVH-125100B	7.5	1042	205	239	464	210	213	285	360	125	470	565	950	410	85	600	175	375	40	15	119	185
	10	1082	226	258	464	210	213	285	360	125	470	565	950	410	85	600	175	375	40	15	119	199
	15	1193	272	323	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	131	248
	20	1237	294	345	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	131	270
CVH-125100C	10	1082	226	258	464	210	213	285	360	125	470	565	950	410	85	600	175	375	40	15	124	204
	15	1193	272	323	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	136	253
	20	1237	294	345	517	185	265	310	360	125	470	590	1100	440	110	400	150	395	50	19	136	275
CVH-125100D	20	1252	294	345	542	200	265	335	390	140	470	615	1100	440	110	400	150	395	50	19	147	286
	25, 30	1258	293	352	581	200	286	335	390	140	470	615	1150	440	110	425	150	395	50	19	147	324,332
CVH-125100E	25, 30	1258	293	352	606	200	286	360	460	140	470	675	1150	440	110	425	150	395	50	19	166	343,351
	40	1303	319	371	606	200	286	360	460	140	470	675	1150	440	110	425	150	395	50	19	166	376
	50	1433	394	426	616	175	368	360	460	140	470	675	1250	440	110	500	125	395	50	19	169	459,479

※ P.B : Weight without motor, P.B.M : Weight including motor

▶▷ HANIL premium type of induction motor(Three phase) energy saving effectiveness table(60Hz)

kW	Hp	HANIL premium motor efficiency(compared with minimum efficiency motor)	
		2pole(%)	Improved efficiency
		60Hz	
0.75	1	81.8	6.3%
1.1	1.45	82.8	7.3%
1.5	2	87.4	3.4%
2.2	3	88	2.5%
3.7	5		
5.5	7.5		
7.5	10		

kW	Hp	IE 1-Standard efficiency	IE 2-High efficincy	IE 3-Premium efficincy
		2pole(%)	2pole(%)	2pole(%)
		60Hz	60Hz	60Hz
0.75	1	70	75.5	77
1.1	1.45	70	75.5	77
1.5	2	76	84	85.5
2.2	3	79.5	85.5	86.5
3.7	5	82.5	87.5	88.5
5.5	7.5	84.5	88.5	89.5
7.5	10	85.5	89.5	90.2

▶▷ Annual power consumption table according to energy efficiency ratio

Type	IE-1 General efficiency type		IE-2 High efficiency type(IE-1 General efficiency type)	
	Efficiency (%)	Annual electric power consumption (KW)	Efficiency (%)	Annual electric power consumption (KW)
1HP(0.75kW)	70	9.386	75.5	8.702
1.5HP(1.1kW)	70	13.766	75.5	12.763
2HP(1.5kW)	76	17.289	84	15.643
3HP(2.2kW)	79.5	24.242	85.5	22.540
5HP(3.75kW)	82.5	39.818	87.5	37.543
Remark	General efficiency		High efficiency	

Type	IE-3 Premium efficiency(IE-2 High efficiency type)		HANIL MOTOR(IE-2 High efficiency type)	
	Efficiency (%)	Annual electric power consumption (KW)	Efficiency (%)	Annual electric power consumption (KW)
1HP(0.75kW)	77	8.532	81.8	8.032
1.5HP(1.1kW)	77	12.514	82.8	11.638
2HP(1.5kW)	85.5	15.368	87.4	15.034
3HP(2.2kW)	86.5	22.280	88	21.900
5HP(3.75kW)	88.5	37.119	88.5	37.119
Remark	Premium efficiency			

※ Hourly electric power consumption(WH) = rated power(KW)×1,000×1 hour(H) / full load efficiency
※ Annual electric power consumption(kWH) = hourly electric power consumption(WH)×24 hours×365 days / 1,000

24 Hours
Delivery Guarantee Only Domestic Sales (S. Korea)

Model selection guide

C	CENTRIFUGAL
W	WESTCO
H	HORIZONTAL
40	SUCTION DIAMETER 40MM
40	DISCHARGE DIAMETER 40MM
05	OUTPUT 5(HP)
MS GP	MECHANICAL SEAL GLAND PACKING
-T -4T	THREE PHASE 220V/380V THREE PHASE 440V

APPLICATION

Industrial water

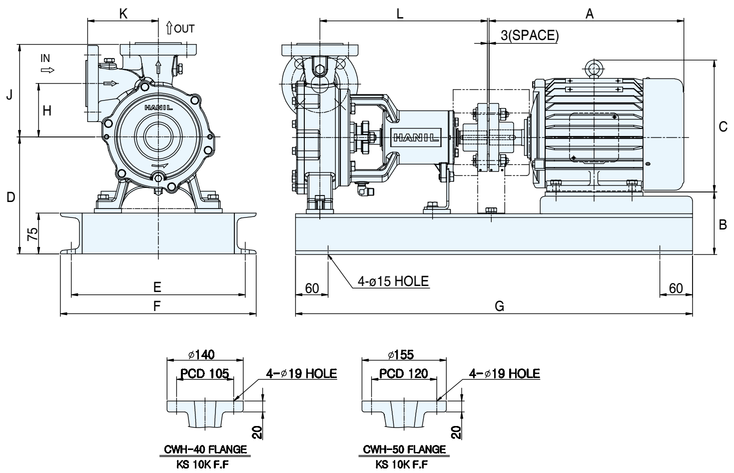
Building equipment

Fountain

Cooling tower water supply

Building firefighting

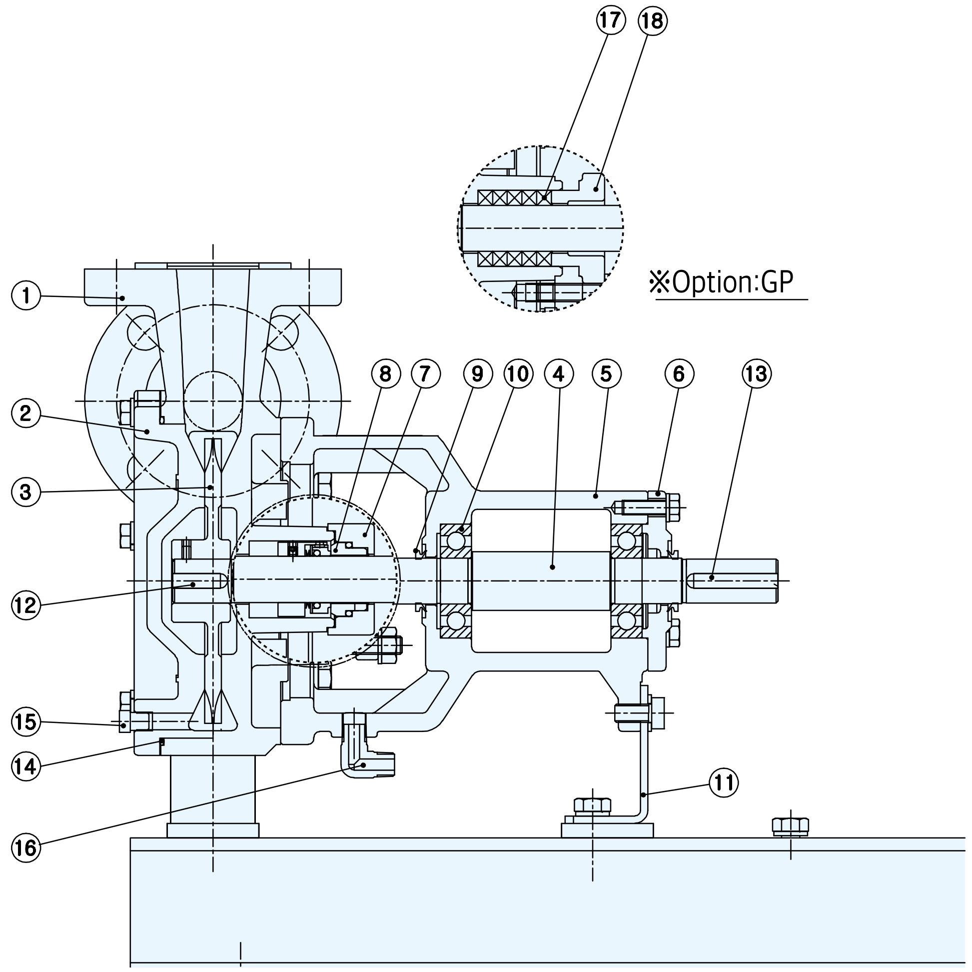
CWH-Series



Standard feature		
Parts		Remark
liquid		Clean water(ph : 5.8~8.6)
Flow rate		1~13㎥/h [20~225L/min]
Max. head		140m
Temperature		0~80℃
RPM		1750rpm
Direction of rotation		CW(From motor to pump direction)
Structure	Impeller	Westco type
	Shaft seal	MS(Mechanical seal)
	Bearing	Ball bearing
Flange	Rating	10kg/cm² ks 10k
	Facing	FF
	Location	Suction : Side, Discharge : Top
Material	Casing	GC200
	Impeller	BsC3
	Shaft	SM45C

CROSS SECTIAON

▶▷ Feature



▶▷ List of material

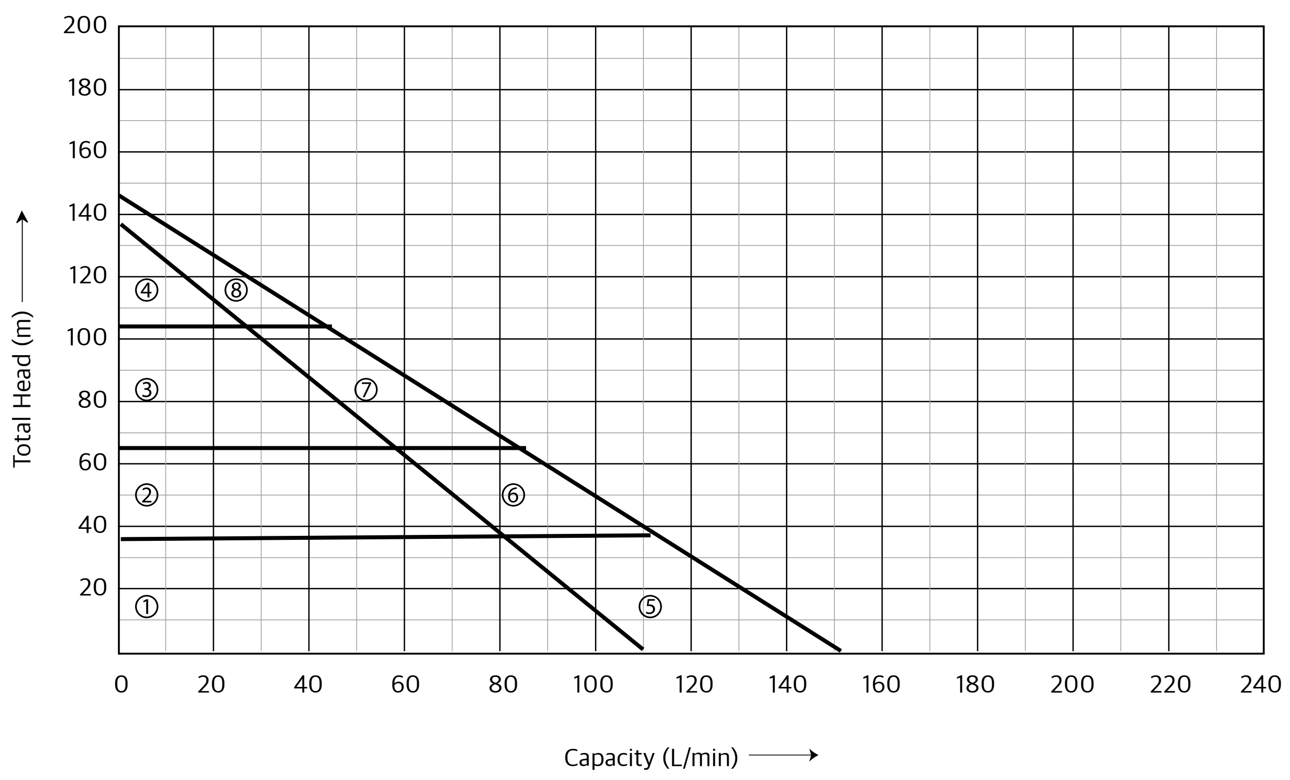
No.	Model	Material	Quantity
1	Casing	GC200	1
2	Casing Cover	GC200	1
3	Impeller	BsC3	1
4	Shaft	SM45C	1
5	Bearing Housing	GC200	1
6	Bearing Cover	GC200	1
7	Mechanical seal Cover	GC200	1
8	Mechanical Seal	SiC/SiC	1
9	VR Packing	NBR	2

No.	Model	Material	Quantity
10	Bearing	Steel	2
11	Support	SPHC	1
12	Impeller Key	SM20C	1
13	Coupling Key	SM45C	1
14	O-ring	NBR	1
15	Drain Plug	BsC	1
16	Drain Elbow	BsC	1
*17	Packing	NBR	1set
*18	Packing Gland	GC200	1

※ Option: GP(Gland packing)

CWH

PERFORMANCE CURVE



SPECIFICATION

NO	Model	Specification				Suction, Discharge diameter (A)	Dimension(mm)										
		Flow rate (L/min)	Head (m)	Motor (Hp)	Weight (kg)		A	B	C	D	E	F	G	H	J	K	L
①	CWH-404003-T(4T)	80	28	3	84	40×40	358	115	242	215	320	360	730	98	170	130	308
②	CWH-404005-T(4T)	48	56	5	95		369	103	274								
③	CWH-404007-T(4T)	20	91	7.5	115		443	83	311								
④	CWH-404010-T(4T)	14	98	10	129		483										
⑤	CWH-505005-T(4T)	120	28	5	98	50×50	369	103	274	215	320	360	730	100	180	140	308
⑥	CWH-505007-T(4T)	80	63	7.5	118		443	83	311								
⑦	CWH-505010-T(4T)	60	84	10	132		483										
⑧	CWH-505015-T(4T)	48	98	15	176		595		367	243	380	420	830				313

Hanil

KSB

24 Hours
Delivery Guarantee
Only Domestic Sales
(S. Korea)

Inline Pumps

CVV-MS

◇ International standard IEC : Standard type motor
◇ Long life
◇ High temperature & high pressure mechanical seal
◇ Pump-Motor Shaft partition structure / Without disassembly, enable to replace impeller & mechanical seal
◇ Installation on the ground with base plate

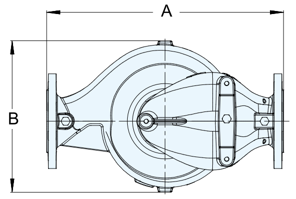
CVV-MS

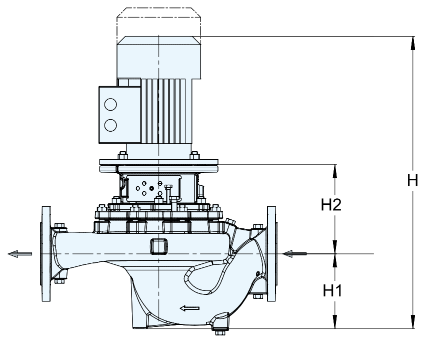
Model selection guide

C	CENTRIFUGAL
V	VOLUTE
V	VERTICAL
50	SUCTION DIAMETER 50mm
50	DISCHARGE DIAMETER 50mm
05	OUTPUT 5(HP)
B	IMPELLER OUTER DIAMETER B : Ø174, D : Ø261
MS	MECHANICAL SEAL
-T -4T	THREE PHASE 220V/380V THREE PHASE 440V

APPLICATION

Industrial water
Building equipment
Cool & Warm water cooling circulation
Cooling tower water supply
Agricultural water
Civil engineering work

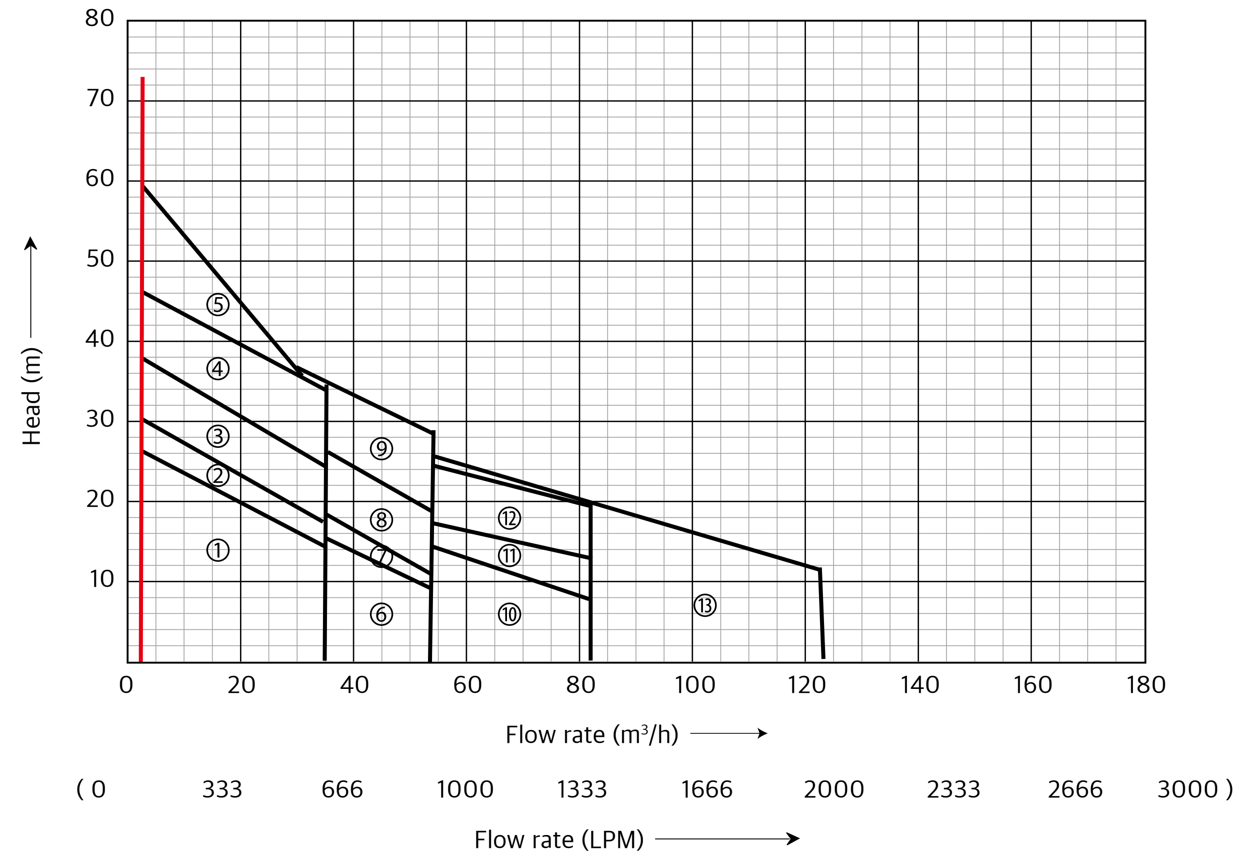




CVV-Series

Standard feature		
Parts		Remark
liquid		Clean water(Ph:5.8~8.6) 0~120℃
Maximum permissible pressure		16kg/cm²
Structure	Casing	Radial partition and foot support type
	Impeller	Closed type
	Shaft seal	Mechanical seal
	Bearing	Ball bearing
Flange		PN16(EN1092-2) DIN FLANGE
Direction of rotation		CW(Looking at pump from motor)
Material	Casing	GC200
	Impeller	GC200
	Shaft	SM45C

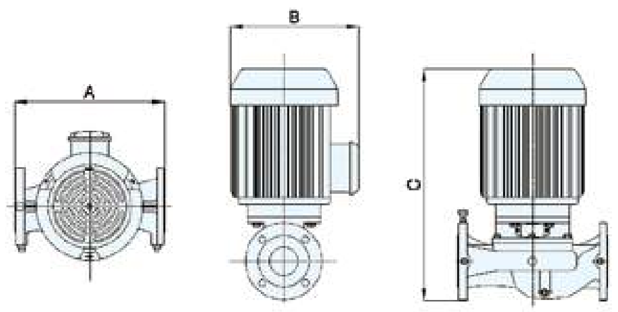
PERFORMANCE CURVE



SPECIFICATION

No	Model	Suction×Discharge Diameter(A)	Specification				Dimension(mm)				
			Flow rate (LPM)	Head (m)	Motor (Hp)	Weight (kg)	A	B	H1	H2	H
①	CVV-404005-B-MS-T	40×40	346	21	5	47	340	250	174	170	648
②	CVV-404007-B-MS-T		466	22	7	63	340	250	174	193	697
③	CVV-404010-B-MS-T		497	28	10	68	340	250	174	193	722
④	CVV-404015-B-MS-T		542	34	15	89	340	250	174	226	810
⑤	CVV-404015-D-MS-T		426	41	15	104	440	336	164	230	804
⑥	CVV-505005-B-MS-T	50×50	400	17	5	51	440	251	194	170	668
⑦	CVV-505007-B-MS-T		702	16	7	67	440	251	194	193	717
⑧	CVV-505010-B-MS-T		764	21	10	72	440	251	194	193	742
⑨	CVV-505015-B-MS-T		839	28	15	93	440	251	194	226	830
⑩	CVV-656507-B-MS-T	65×65	1045	10	7	69	440	249	210	193	733
⑪	CVV-656510-B-MS-T		1111	15	10	86	440	249	150	193	756
⑫	CVV-656515-B-MS-T		1255	19	15	95	440	249	210	226	846
⑬	CVV-808015-B-MS-T	80×80	1457	19	15	101	440	266	236	226	872

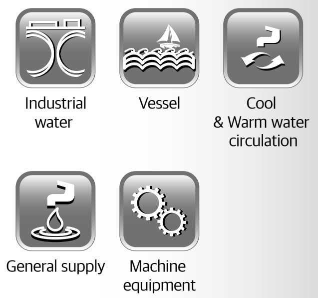
SD2V



Model selection guide

S	STAINLESS
D	DIRECT
2	2POLE
V	VERTICAL
80	SUCTION DIAMETER : 80A
80	DISCHARGE DIAMETER : 80A
05	MOTOR : 5HP
-T	THREE PHASE

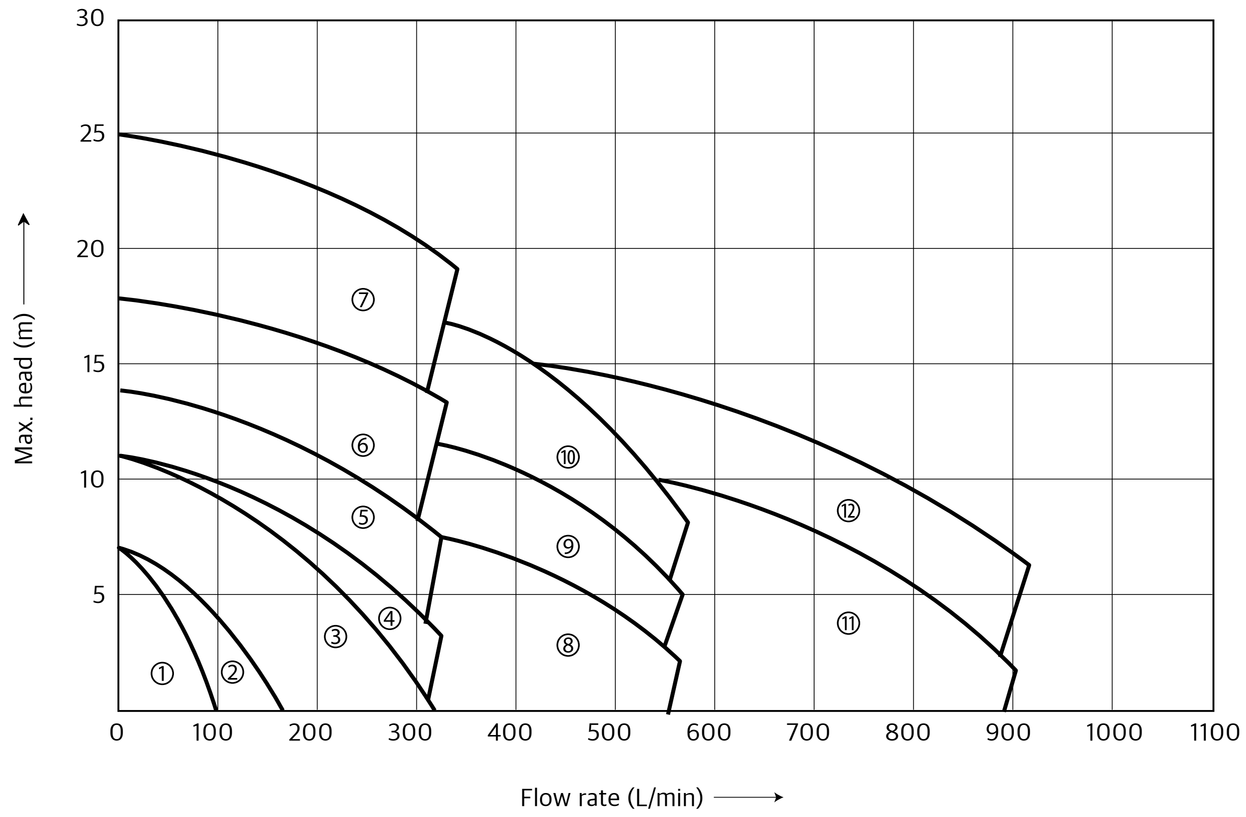
APPLICATION



FEATURE

- All stainless steel on the water contact surface(Useable in PH 5.8~8.6)
- Clean water with SSC14
- KS Flange 10K & Holder attachable

PERFORMANCE CURVE



SPECIFICATION

No	Model	Voltage (V.AC)	Specification				Suction×Discharge Diameter (A)	Dimension(mm)		
			Flow rate (LPM)	Head (m)	Motor (Hp)	Weight (kg)		A	B	C
①	SD2V-4040-125	Single phase 220	50	5	1/6	11	40×40	210	190	275
②	SD2V-5050-250	Single phase 220	100	5	1/4	13	50×50	250	190	280
③	SD2V-6565-400	Single phase 220	260	5	1/2	20	65×65	280	215	318
④	SD2V-505001	Single phase 220	240	6	1	48		436	255	512
	SD2V-505001-T	Three phase 220/380	240	6						
⑤	SD2V-505002	Single phase 220	240	8	2	53	50×50	436	255	527
	SD2V-505002-T	Three phase 220/380	240	8						
⑥	SD2V-505003-T	Three phase 220/380	240	12	3	55		436	255	532
⑦	SD2V-505005-T		240	16	5	70		436	255	648
⑧	SD2V-656503-T	Three phase 220/380	400	8	3	59	65×65	474	263	512
⑨	SD2V-656505-T		400	13	5	72		474	263	613
⑩	SD2V-656507-T		400	16	7.5	81		683	263	512
⑪	SD2V-808005-T	Three phase 220/380	800	6	5	74	80×80	524	286	638
⑫	SD2V-808007-T		800	9	7.5	83		524	286	708

Made in Korea

HVCP

HVCP-Non-self priming type

Non-self priming pump(Standard)/(High pressure type) selection criteria

HVCP – □ □ □ – □ □

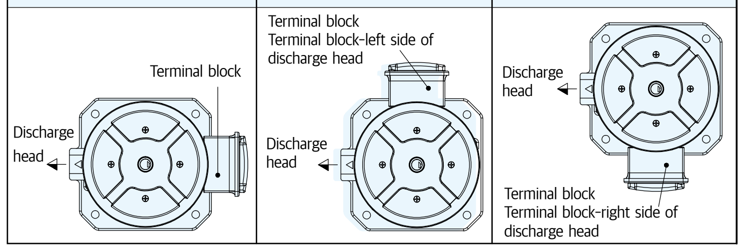
SERIES		DISCHARGE PRESSURE		SUCTION LOCATION		MOTOR OUTPUT		VOLTAGE		SINK DEPTH	
HVCP	Hanil	-	Standard type	-	Standard type	60	0.06kW	-T	Convertible 220V/380V	180	180mm
	Vertical	H	High pressure type	U	lower suction type	80	0.1kW	-2T	Three phase 220V	210	210mm
	Coolant					180	0.18kW	-3T	Three phase 380V	280	280mm
	Pump					250	0.25kW				
						400	0.4kW				

Non-self priming(Middle lift type)/(Large flow rate type) selection criteria

HVCPM – □ □ □ □ – □ □

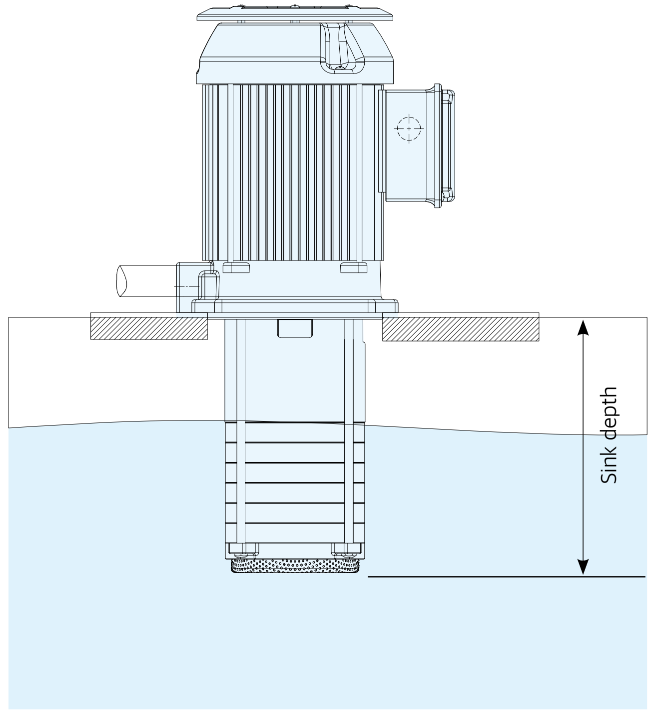
SERIES		IMPELLER STAGE		DISCHARGE PRESSURE		IMPELLER TYPE		MOTOR OUTPUT		VOLTAGE		SINK DEPTH	
HVCP	Hanil	2	2stages	M	Middle lift	-	General type	900	0.9kW	-T	Convertible 220V/380V	170	170mm
	Vertical	3	3stages	L	Large flow rate	A	A type	1500	1.5kW	-T	Three phase 220V	180	180mm
	Coolant	5	5stages			B	B type	2200	2.2kW	-3T	Three phase 380V	250	250mm
	Pump	7	7stages									275	275mm
	Multi stage												

Parts name	Parts name-L	Parts name-R



1/2HP or more, the position of the terminal box can be changed by 90 degrees based on the discharge head.

HVCP-Sink depth



GOOD DESIGN
Nominated by Ministry of Trade, Industry and Energy

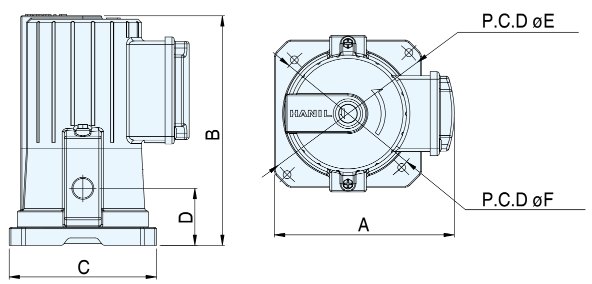
APPLICATION

FEATURE

IP 65(International Standard Grade IEC60529)

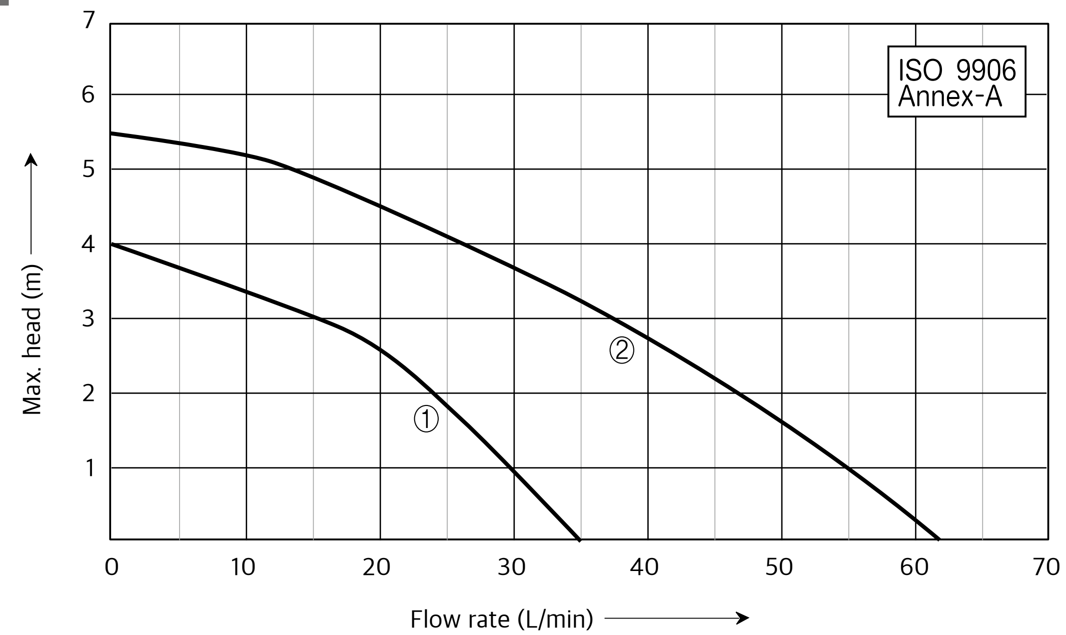
- Easy installation to machine tools and precision machine
- Light weight, Large flow rate
- With Non-mechanical seal type, available to metal debris and contaminated liquid
- Attachable to machine
- Dedicated impeller for coolant pump only
- Oil circulating pump for cutting fluid(cutting machine) and grinding fluid(industrial precision machine)

Self priming pump



HVCP-Self-priming type

PERFORMANCE CURVE



① HVCP-101SP-T ② HVCP-181SP-T

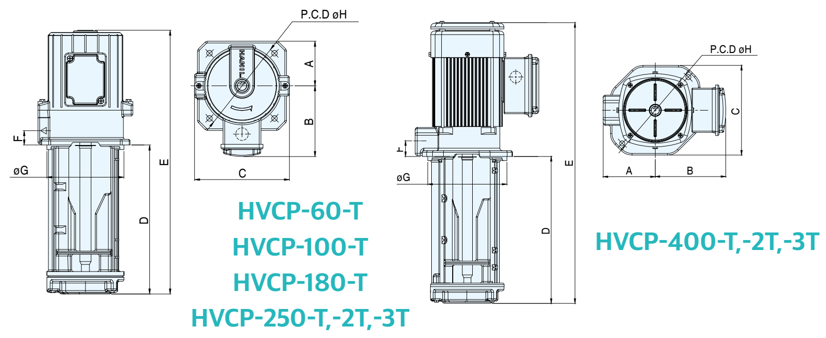
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Weight (kg)	Suction, Discharge diameter (A)	Dimension(mm)		
									A×B×C×D	E	F
① HVCP-101SP-T	Three phase 220/380	1/8	4.5	1600(1.4)	0.7	3.8	6.5	10	157×200×128×50	150	132
② HVCP-181SP-T		1/4	7	3,100(1.4)		6.3	12.7	15	205×250×165×63	170	167

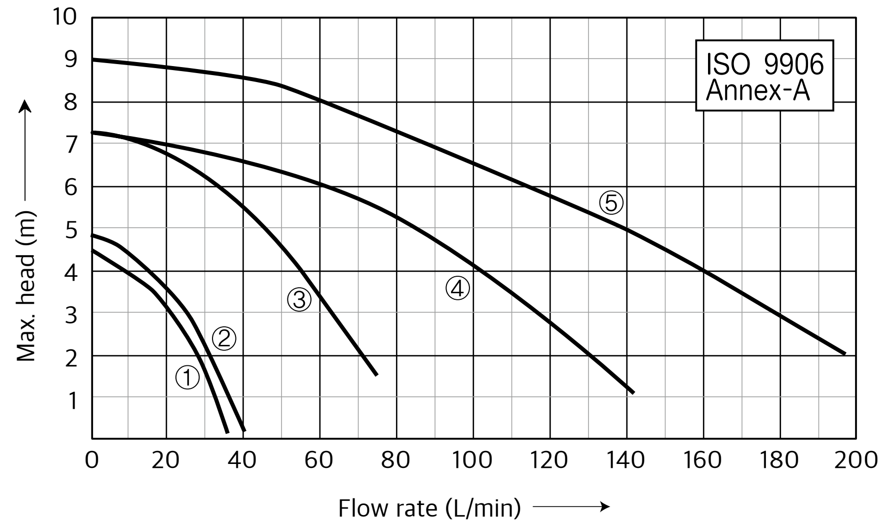
※ Fluid range : 2cst~32cst

Flow rate sensor type(Constant pressure operaion)

HVCP-Standard type



PERFORMANCE CURVE



① HVCP-60-T ② HVCP-100-T ③ HVCP-180-T
④ HVCP-250-T,-2T,-3T ⑤ HVCP-400-T,-2T,-3T

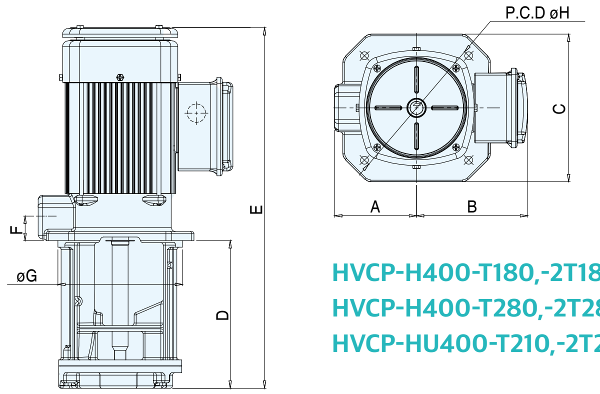
SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Weight (kg)	Suction, Discharge diameter (A)		Dimension(mm)		
										A×B×C×D×E×F	G	H
①	HVCP-60-T	Three phase 220/ 380	1/12	4.5	1,900(1.4)	4.5	5	-	10	64×97×137×151×316×15	90	130
②	HVCP-100-T		1/8	5	2,100(1.4)	5	5.5			64×97×137×156×321×15	90	130
③	HVCP-180-T		1/4	7.5	4,300(2.1)	7.5	11		15	78×123×166×184×375×19	115	160
④	HVCP-250-T	T : Three phase 220/ 380 2T : Three phase 220 3T : Three phase 380	1/3	7	4,300(5.6)	7	16		20	77×123×165×260×460×25	134	160
	HVCP-250-2T											
	HVCP-250-3T											
⑤	HVCP-400-T		1/2	9	6,500(6.3)	9	18		25	100×136×172×280×535×30	152	180
	HVCP-400-2T											
	HVCP-400-3T											

※ Fluid range : 2cst~32cst

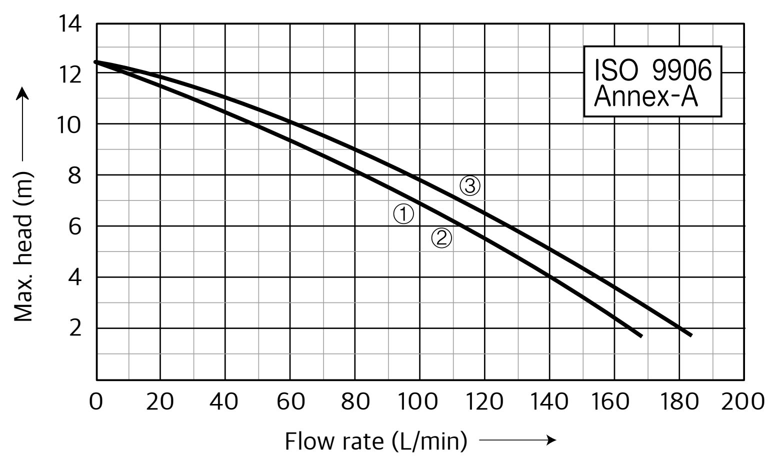
Non-self priming(High pressure type)

HVCP-High pressure type



HVCP-H400-T180,-2T180,-3T180
HVCP-H400-T280,-2T280,-3T280
HVCP-HU400-T210,-2T210,-3T210

PERFORMANCE CURVE



①② HVCP-H400-T180/HVCP-H400-T280
HVCP-H400-2T180/HVCP-H400-2T280
HVCP-H400-3T180/HVCP-H400-3T280

③ HVCP-HU400-T210
HVCP-HU400-2T210
HVCP-HU400-3T210

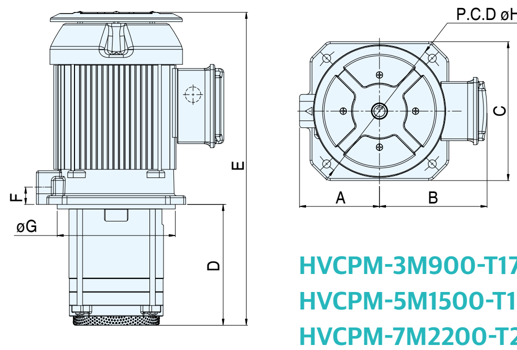
SPECIFICATION

NO	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Weight (kg)	Suction, Discharge diameter (A)		Dimension(mm) A×B×C×D×E×F	G	H
①	HVCP-H400-T180	T : Three phase 220/380 2T : Three phase 220 3T : Three phase 380	1/2	12.5	6,000(7)	12.5	16	-	25	100×136×180×180×435×30	152	180
	HVCP-H400-2T180											
	HVCP-H400-3T180											
②	HVCP-H400-T280						18.5			100×136×180×280×535×30		
	HVCP-H400-2T280											
	HVCP-H400-3T280											
③	HVCP-HU400-T210 (Bottom suction type)				7,000(7)		17			100×136×180×210×465×30		
	HVCP-HU400-2T210 (Bottom suction type)											
	HVCP-HU400-3T210 (Bottom suction type)											

※ Fluid range : 2cst~32cst

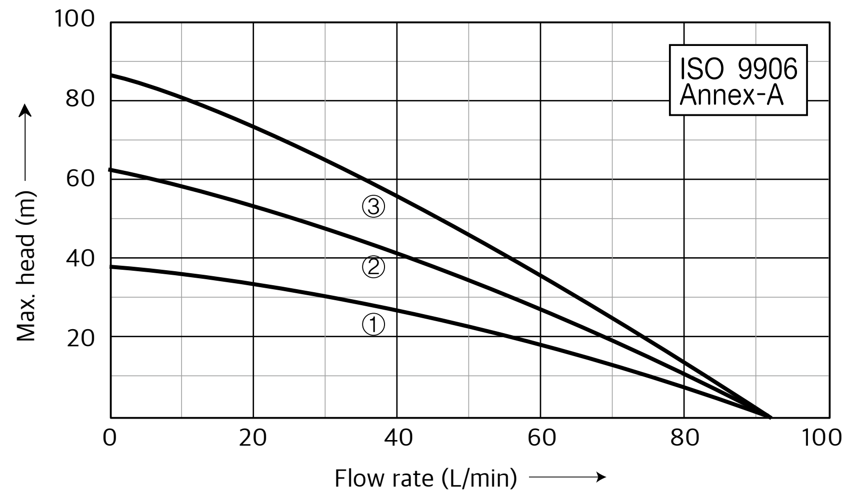
Non-self priming(Middle lift type)

HVCPM-Middle lift type



HVCPM-3M900-T170,-2T170,-3T170
HVCPM-5M1500-T185,-2T185,-3T185
HVCPM-7M2200-T245,-2T245,-3T245

PERFORMANCE CURVE



① HVCPM-3M900-T170
HVCPM-3M900-2T170
HVCPM-3M900-3T170

② HVCPM-3M900-T185
HVCPM-3M900-2T185
HVCPM-3M900-3T185

③ HVCPM-3M900-T245
HVCPM-3M900-2T245
HVCPM-3M900-3T245

SPECIFICATION

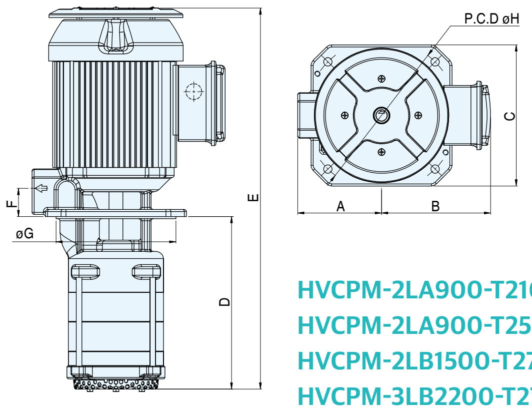
NO	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Weight (kg)	Suction, Discharge diameter (A)		Dimension(mm) A×B×C×D×E×F	G	H
①	HVCPM-3M900-T170	T : Three phase 220/380 2T : Three phase 220 3T : Three phase 380	1.2	40	2,600(26)	40	28	40	20	115×155×200×170×445×25	170	215
	HVCPM-3M900-2T170											
	HVCPM-3M900-3T170											
②	HVCPM-5M1500-T185		2	65	2,300(44)	65	32			115×155×200×185×470×25		
	HVCPM-5M1500-2T185											
	HVCPM-5M1500-3T185											
③	HVCPM-7M2200-T245		3	90	2,100(61)	90	37			115×155×200×245×540×25		
	HVCPM-7M2200-2T245											
	HVCPM-7M2200-3T245											

※ Fluid range : 2cst~32cst

HVCPM

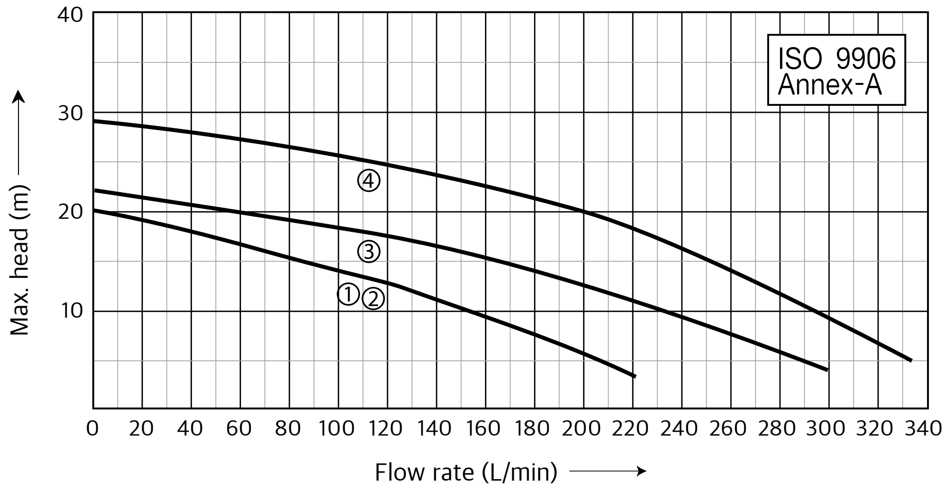
Non-self priming(Large flow rate type)

**HVCPM-
Large flow rate type**



HVCPM-2LA900-T210,-2T210,-3T210
HVCPM-2LA900-T250,-2T250,-3T250
HVCPM-2LB1500-T275,-2T275,-3T275
HVCPM-3LB2200-T275,-2T275,-3T275

PERFORMANCE CURVE



①② HVCPM-2LA900-T210/HVCPM-2LA900-T250
HVCPM-2LA900-2T210/HVCPM-2LA900-2T250
HVCPM-2LA900-3T210/HVCPM-2LA900-3T250

③ HVCPM-2LB1500-T275
HVCPM-2LB1500-2T275
HVCPM-2LB1500-3T275

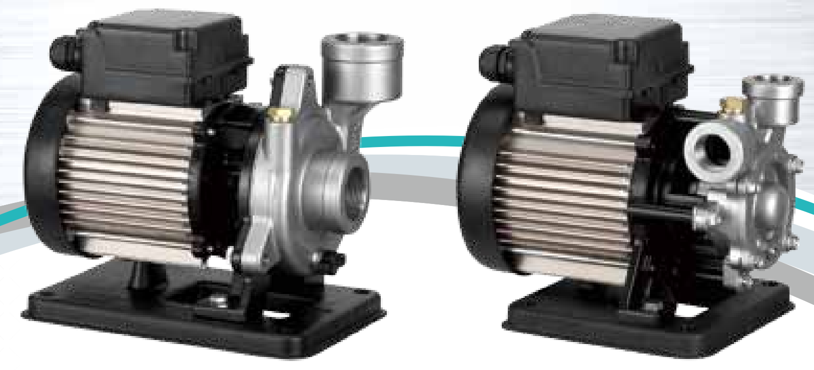
④ HVCPM-3LB2200-T275
HVCPM-3LB2200-2T275
HVCPM-3LB2200 -3T275

SPECIFICATION

NO	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Discharge head (m)	Weight (kg)	Suction, Discharge diameter (A)		Dimension(mm)		
										A×B×C×D×E×F	G	H
①	HVCPM-2LA900 -T210/-2T210/-3T210	T : Three phase 220/380 2T : Three phase 220 3T : Three phase 380	1.2	20	8,000(11)	20	28	65	32	120×155×200×210×545×40	170	215
②	HVCPM-2LA900 -T250/-2T250/-3T250						30			120×155×200×250×545×40		
③	HVCPM-2LB1500 -T275/-2T275/-3T275		2	22	10,000(15)	22	34		40	120×155×200×275×580×40	180	
④	HVCPM-3LB2200 -T275/-2T275/-3T275		3	33	10,000(22)	33	36			120×155×200×275×590×40		

※ Fluid range : 2cst~32cst

Made in Korea



Multipurpose Pump

MPPA, MPPH

◇ Customized product lineup
◇ Provides customized option for various needs from the site
◇ Superior chemical resistant EPDM o-ring/mechanical seal
◇ Superior rust resistant mechanical seal for seawater
◇ Provides various options for pipe connection

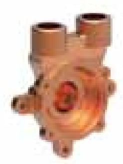
▶▷ Model selection guide for multipurpose pump

MPPA-1681SSFPXEB(EXAMPLE)

MP	PA	1681	S	S	F	P	X	E	B
MULTI PURPOSE	VOLUTE	2HP	SINGLE PHASE 220V	STAINLESS STEEL	FLANGE TYPE	POWER CORD CONNECTION	IPX4	EPDM	BED

MPPH-1580SSFPXEB(EXAMPLE)

MP	PH	1580	S	S	F	P	X	E	B
MULTI PURPOSE	WESCO	2HP	SINGLE PHASE 220V	STAINLESS STEEL	FLANGE TYPE	POWER CORD CONNECTION	IPX4	EPDM	BED

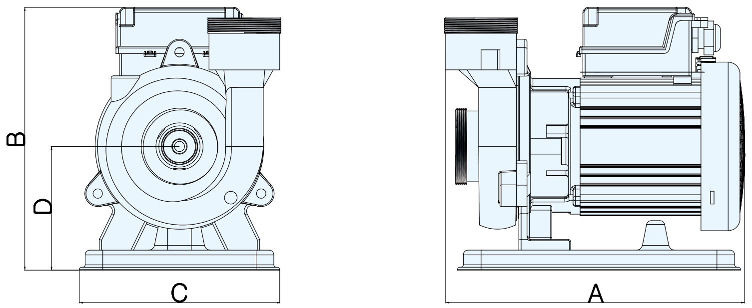
TYPE	IMPELLER	MOTOR POWER	RATED VOLTAGE	CASING				
MP (MULTI PURPOSE)	PH (WESCO TYPE)	250 1/3HP	S (SINGLE PHASE 220V)		MPPH			MPPA
		400 1/2HP			250/400/750/1580 BASIC Ltype	251/401/751/1581 LINE type	252/402/752/1582 Vertical type	
		750 1HP		S (STAINLESS)				
		1580 2HP						
	PA (VOLUTE TYPE)	281	T (THREE PHASE 220/380V)	B (bronze)				
		631						
		931	4T (THREE PHASE 440V)	G (casting)				
		1681 2HP						

PIPING	POWER CONNECTION	MOTOR PROTECTION RATING	MECHANICAL SEAL	BED
D (FEMALE SCREW)	C (TERMINAL TYPE)	X (IPX4)	N (NBR)	B (WITH BED)
U (UNION)				
F (FLANGE)	P POWERCORD		E (EPDM)	R (WITHOUT BED)

MULTI-PURPOSE PUMP

MPPA

MPPA



Model selection guide

M	MULTI
P	PURPOSE
PA	VOLUTE
1681	2HP
S -T -4T	SINGLE PHASE 220V THREE PHASE 220/380V THREE PHASE 440V
S	STAINLESS STEEL
F	FLANGE TYPE
P	POWER CORD CONNECTION
X	IPX4
E	EPDM
B	BED

APPLICATION

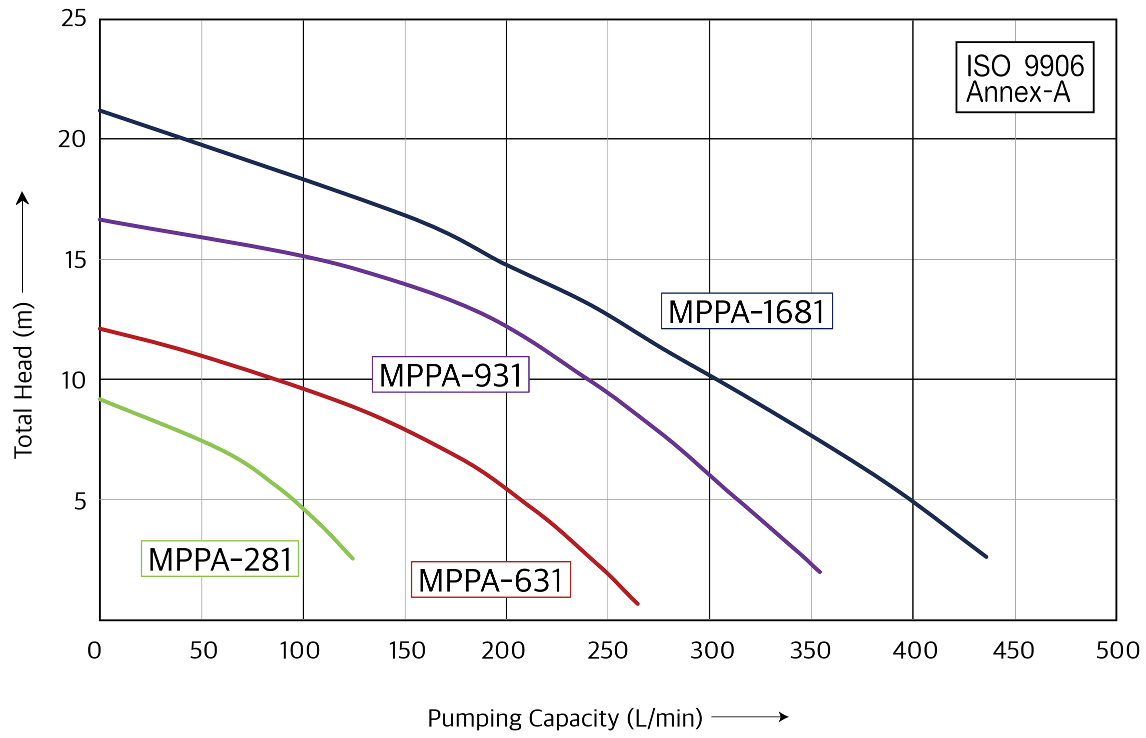
Circultating cooling water of the machinery · Industrial washing machine · Food factory

FEATURE

CUSTOMIZED PRODUCT LINEUP

- Provides customized option for various needs from the site.
- Superior chemical resistant EPDM o-ring/mechanical seal.
- Superior rust resistant mechanical seal for seawater.
- Provides various options for pipe connection.

PERFORMANCE CURVE



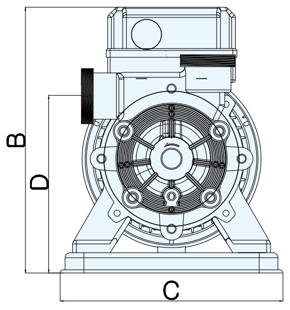
SPECIFICATION

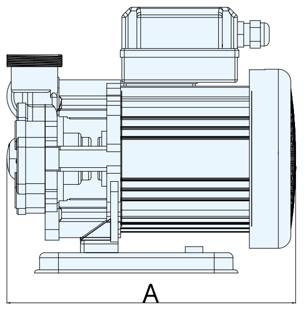
Model	Rated input voltage (V.AC)	Rated output power (W)	Input power at full load (w)	Total Head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Casing material	Suction· Discharge diameter(A)	Net weight (kg)	Dimension (mm) A×B×C×D
MPPA-281-TYPE	Single phase 220 Three phase 220/380/400	1/3	320	7	7,440(0.5)	0	Stainless casting (S-TYPE) Bronze casting (B-TYPE) Gray casting (G-TYPE)	32(A)	8.7	254×223×170×105
MPPA-631-TYPE		4/5	660	12	15,840(0.5)			40(A)	15	290×245×200×113
MPPA-931-TYPE	Three phase 220/380/400	1.2	1,215	17	21,240(0.5)			50(A)	24	369×290×210×130
MPPA-1681-TYPE		2	1,740	21	26,100(0.5)			50(A)	30	361×320×270×160

Made in Korea

MPPH

MPPH

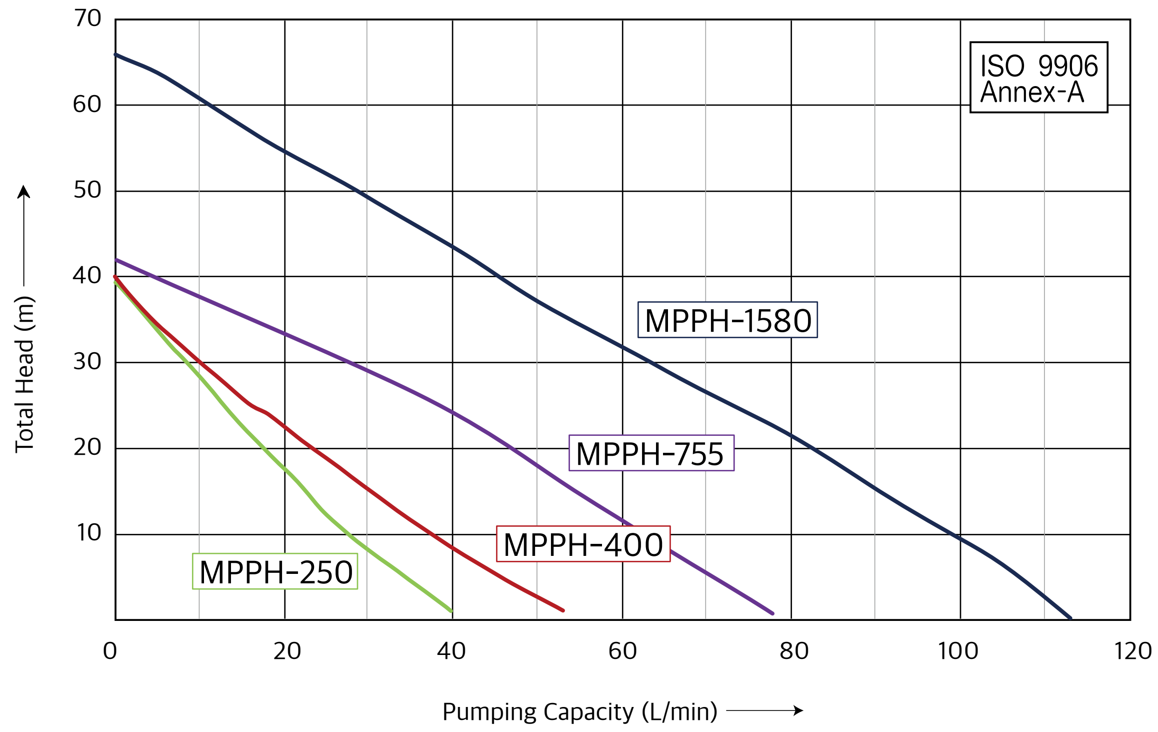




Model selection guide

M	MULTI
P	PURPOSE
PH	WESCO
1580	2HP
S T 4T	SINGLE PHASE 220V THREE PHASE 220/380V THREE PHASE 440V
S	STAINLESS STEEL
F	FLANGE TYPE
P	POWER CORD CONNECTION
X	IPX4
E	EPDM
B	BED

PERFORMANCE CURVE



APPLICATION

Circultating cooling water of the machinery
Industrial washing machine
Food factory

FEATURE

CUSTOMIZED PRODUCT LINEUP

- Provides customized option for various needs from the site
- Superior chemical resistant EPDM o-ring/mechanical seal
- Superior rust resistant mechanical seal for seawater
- Provides various options for pipe connection

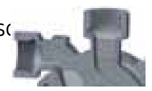
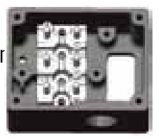
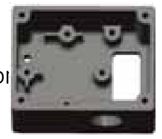
SPECIFICATION

Model	Rated input voltage (V.AC)	Rated output power(W)	Input power at full load (w)	Total Head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Casing material	Suction· Discharge diameter (A)	Net weight (kg)	Dimension(mm) A×B×C×D
MPPH-250-TYPE	Single phase 220	1/3	430	23	2,340(0.5)	0	Stainless casting (S-TYPE) Bronze casting (B-TYPE) Gray casting (G-TYPE)	20(A)	6.7	230×210×178×142
MPPH-400-TYPE	Three phase 220/380/400	4/5	660	26	3,120(0.5)				10	272×231×172×156
MPPH-755-TYPE	Three phase 220/380/400	1.2	1,170	26	4,620(0.5)			25(A)	17	335×269×200×174
MPPH-1580-TYPE		2	1,780	44	6,720(0.5)			40(A)	31	344×308×270×217

BASIC SPECIFICATION

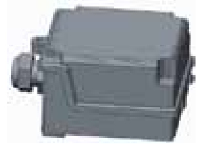
Voltage	S : SINGLE PHASE 220V T : THREE PHASE 220/380V 4T : THREE PHASE 440V			
Type(Output)	1/3HP	1/2HP	1HP	2HP

OPTION SPECIFICATION

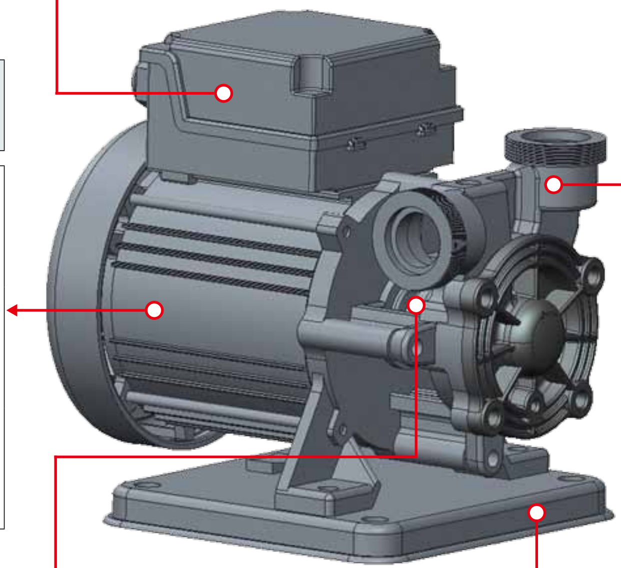
	Default	Option	
Water contact parts	C  - Standard casing material widely used under normal environment	B  - Enhanced Rust resistance with bronze	S  - Supply rust free clean water - Enhance sea water resistance, chemical resistance, rust resistance, abrasion resistance
Piping Method	D Female sc  - Normal pipe connection method	U Un  - Compact connection of piping by connecting union directly	
Power Connection	C Terminal Cor  - Direct power connection with terminal block	P Power Coı 	
Motor Protection Rating	IPX4		
O-Ring Mechanical Seal	NBR - Superior oil resistance and abrasion resistance	EPDM - Weather-proof, Ozone resistance,Chemical resistance(Acid/Akali)	
Bed			

LINE-UP

MPPA/MPPH LINE-UP

	Power connection	
	Terminal type	Power cord connection
		

Type of Casing		
		
Basic(L Type)	Line Type	Vertical Type



	Rating	Insulation Class
1	SINGLE PHASE 220V 50/60hz	F
2	THREE PHASE 220/380V 50/60hz	
3	THREE PHASE 440V 50/60hz	

Pipe Connection		
Female Screw	Union	Flange

Casing Material (Water contact parts)		
SSC14 Stainless steel	BC Bronze casting	GC200 Iron Casting

Motor Protection
IP×4

O-Ring Mechanical Seal	
NBR	EPDM
	

Bed	
With	Without
	

ALL STAINLESS STEEL HOME PUMPS

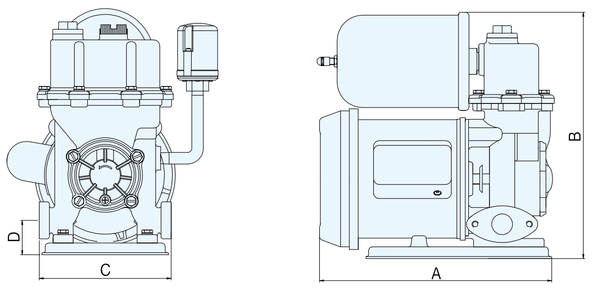
PHSS

PHSS

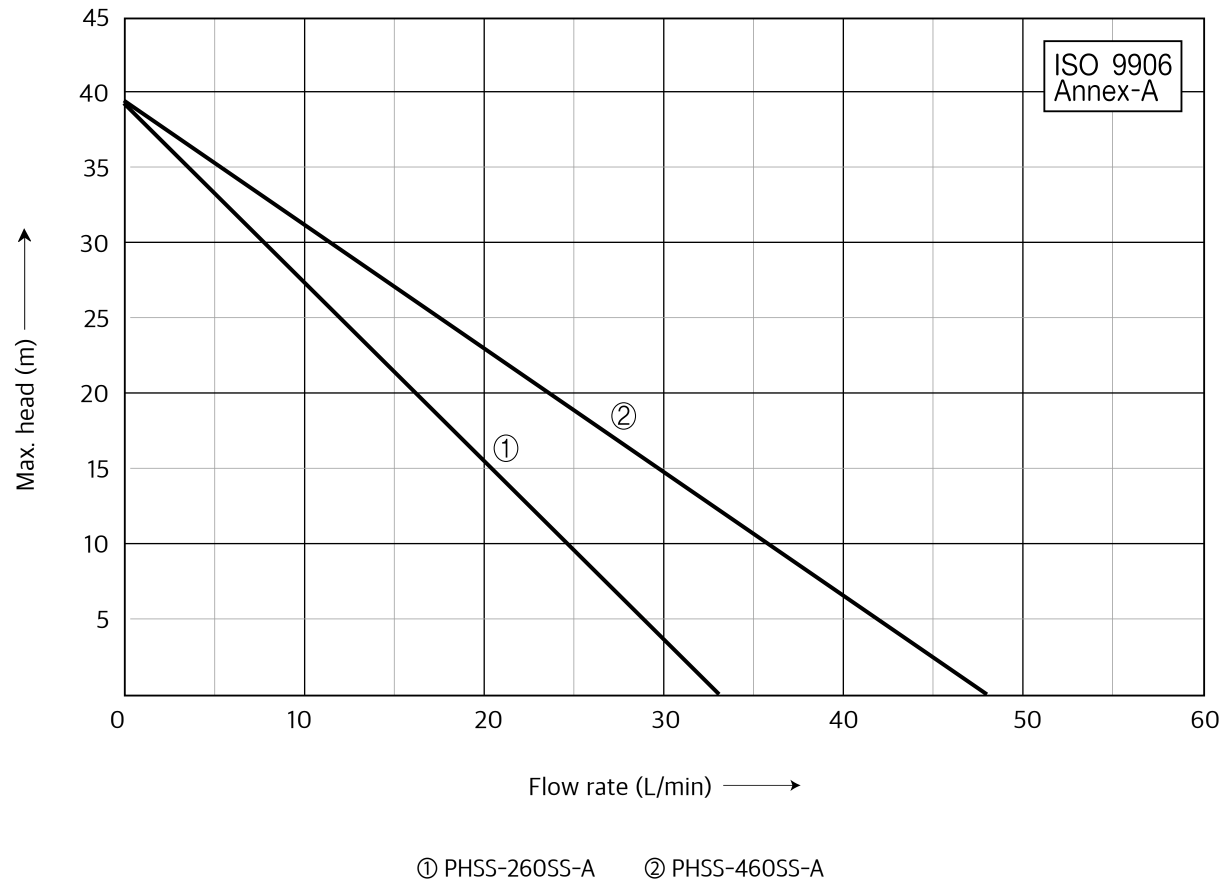
PHSS-260SS-A

Model selection guide

P	PUMP
H	HOME
S	STAINLESS
S	STEEL
260	PUMP MODEL
A / W	NITROGEN TANK / NON-AUTOMATIC TYPE



PERFORMANCE CURVE



APPLICATION

FEATURE

ALL STAINLESS STEEL PUMP without rust

- Self-priming circulation
- Excellent Waterproof, Dustproof, Corrosion resistance with totally-enclosed motor
- Clean water supply by water contact surface made of stainless steel
- Built-in motor protective device
- Automatically operating burning prevention
- Casing, Impeller and Suction/Discharge flange are made of STS-304
- Useable in PH 5.8~8.6

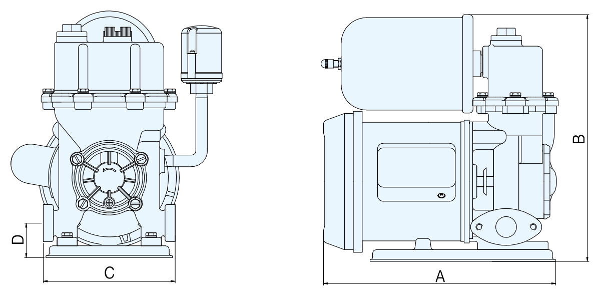
SPECIFICATION

No	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
①	PHSS-260SS-A	Single phase 220	1/3	17	2,048(0.5)	8	25,20	15	277×294×201×41
②	PHSS-460SS-A		1/2		2,824(0.5)		32	17	300×291×234×56

Nitrogen tank type

PHH-168A(-B)

Auto-self priming type, free impeller, low noise type



For water supply
Clear water pump

Model selection guide

P	PUMP
H	HOME
H	HYGIENE
168	PUMP MODEL
A/W	NITROGEN TANK / NON-AUTOMATIC
B	BRONZE

APPLICATION

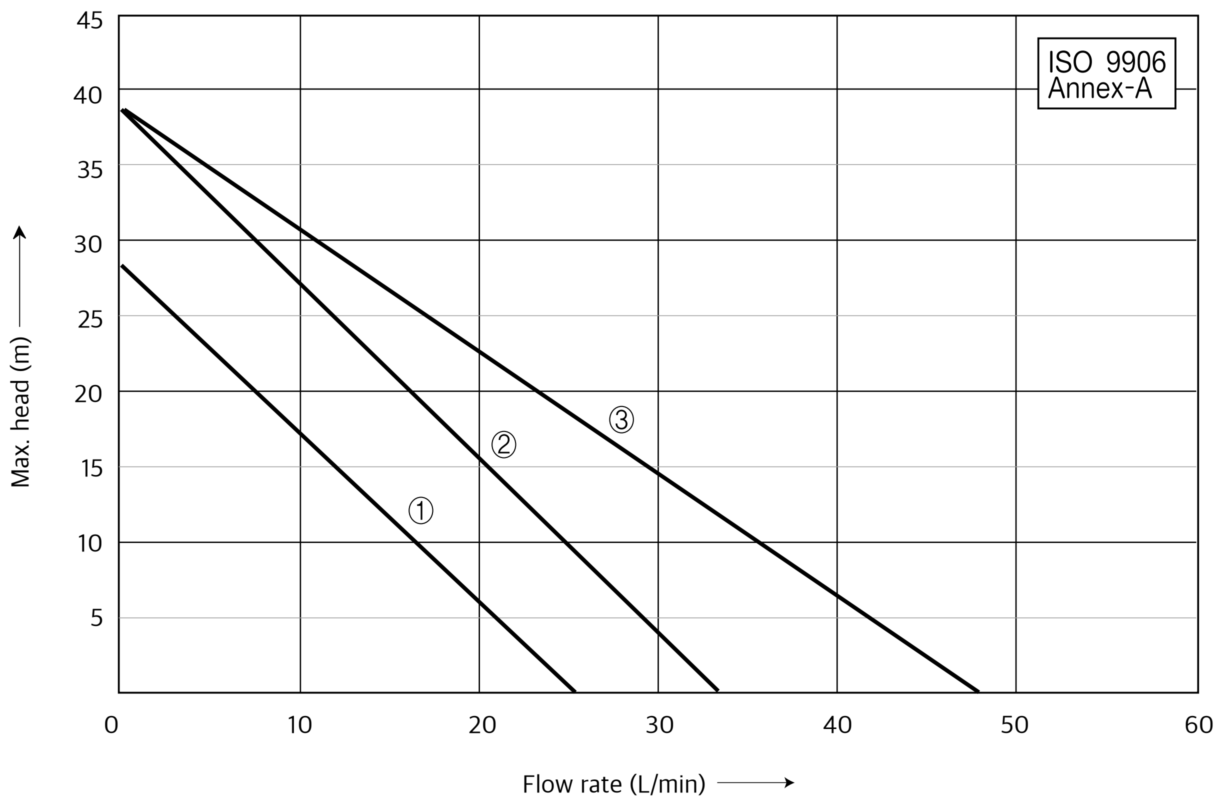
FEATURE

CLEAN WATER SUPPLY WITH CASING AND RESERVE TANK

made of bronze

- Improved safety with totally-enclosed motor frame
- Reduced weight and installation space with integral type(pump & motor)
- High corrosion resistance with powder coating

PERFORMANCE CURVE



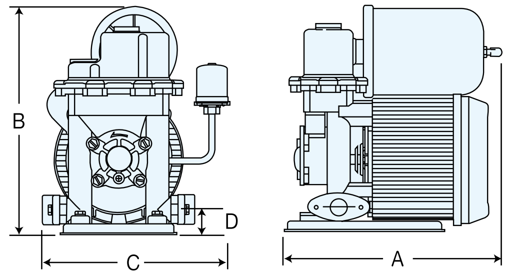
① PHH-168A-B ② PHH-268A-B ③ PHH-468A-B

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PHH-168A-B	Single phase 220	1/6	200	11	1,520(0.5)	8	3	20		13	278×295×199×32
② PHH-268A-B		1/3	320	17	2,048(0.5)		9	25	20	15	277×294×201×41
③ PHH-468A-B		1/2	660	17	2,824(0.5)		9	32		17	300×291×234×56

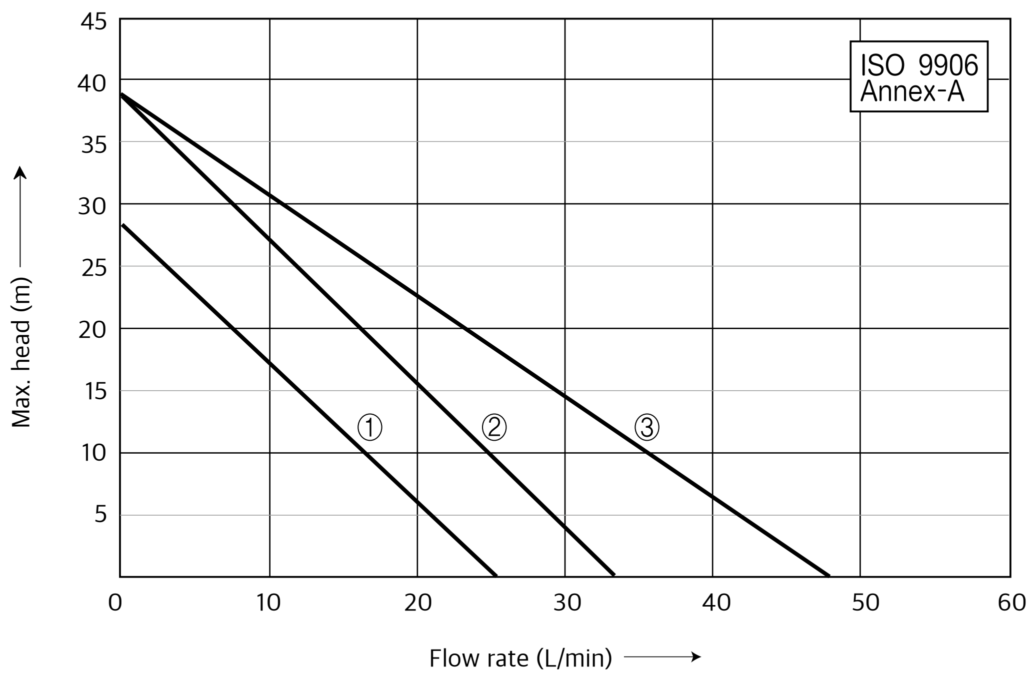
PHH

Nitrogen tank type Available ambient tempearture 0~40℃



PHH-128/258/408A-B

PERFORMANCE CURVE



① PHH-128A-B ② PHH-258A-B ③ PHH-408A-B

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) AxBxCxD
① PHH-128A-B	Single phase 220	1/6	200	11	1,520(0.5)	8	3	20		9.1	272×286×284×33
② PHH-258A-B		1/3	320	17	2,048(0.5)		9	25	20	10.7	280×299×311×35
③ PHH-408A-B		1/2	660	17	2,824(0.5)		9	32	25	17.7	309×310×320×63

Home Pumps

PH

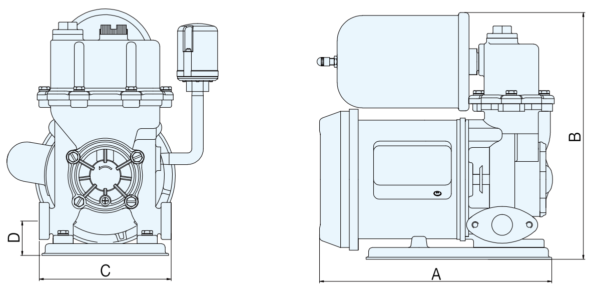
- ◇ Improved safety with totally-enclosed motor frame
- ◇ Reduced weight and installation space with integral type(pump & motor)
- ◇ High corrosion resistance with powder coating

Made in Korea

PH

Nitrogen tank type

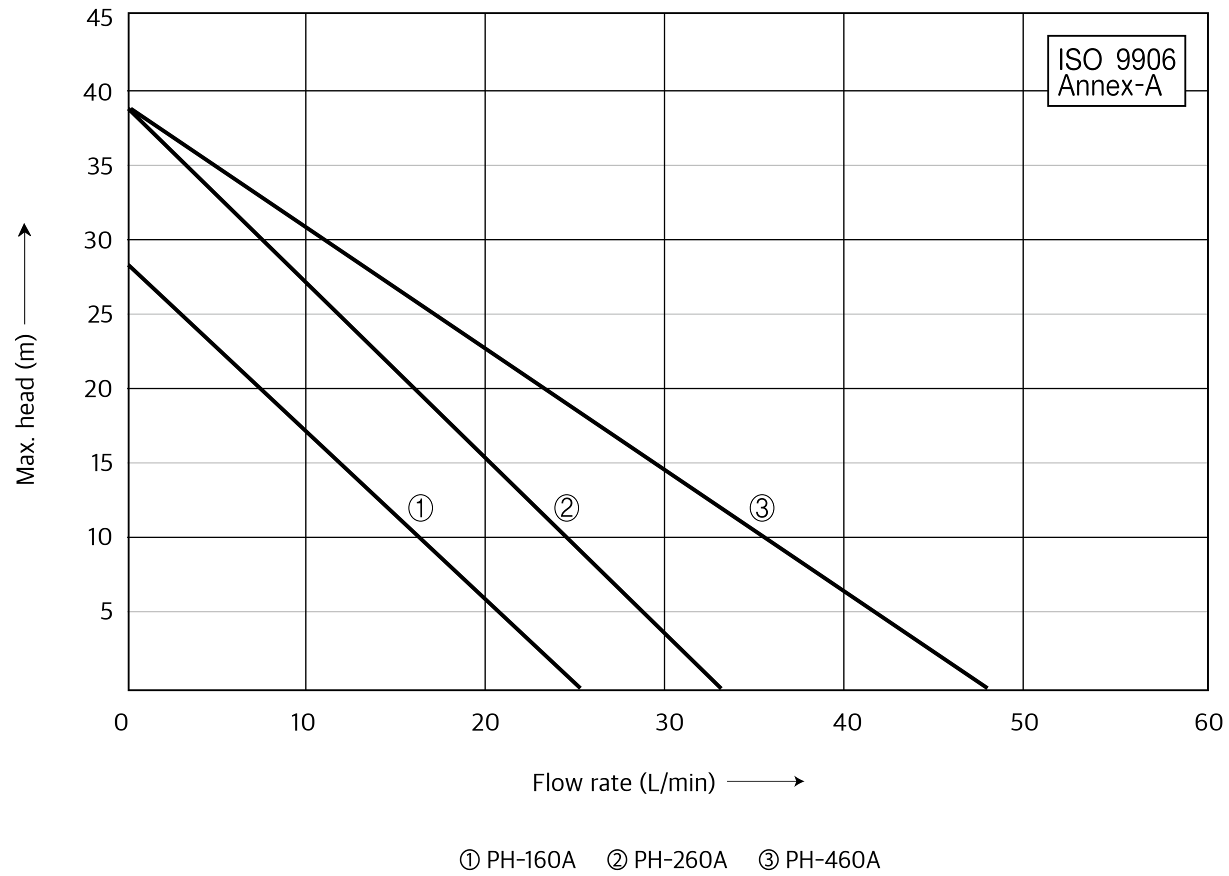
PH-160A



Model selection guide

P	PUMP
H	HOME
160	PUMP MODEL
A	NITROGEN TANK
C	FLOW RATE SENSOR
R	PRESSURE TANK
W	NON-AUTOMATIC

PERFORMANCE CURVE



APPLICATION

Home

Villa, Row houses

Pressurizing hot water supply

Fountain

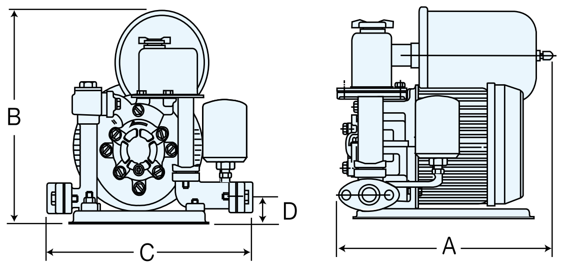
FEATURE

AUTO-SELF PRIMING TYPE, FREE IMPELLER

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PH-160A	Single phase 220	1/6	200	11	1,520(0.5)	8	3	20		13	278×295×199×32
② PH-260A		1/3	320	17	2,048(0.5)		9	25	20	15	277×294×201×41
③ PH-460A		1/2	660	17	2,824(0.5)		9	32		17	300×291×234×56

Nitrogen tank type

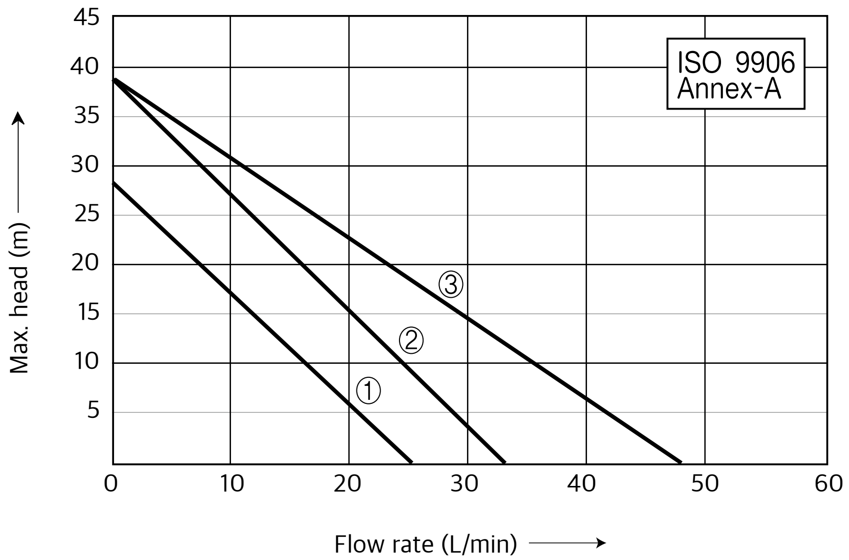


- Totally-enclosed aluminum motor frame

PH-125A

Auto-self priming type, free impeller

PERFORMANCE CURVE

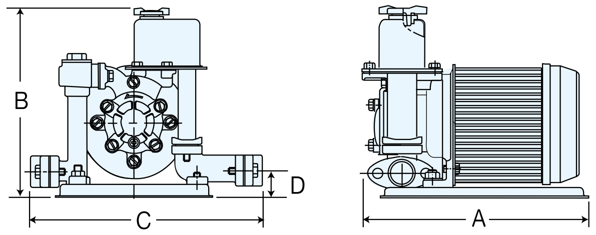


① PH-125A/125A-G ② PH-255A ③ PH-405A

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PH-125A-G PH-125A	Single phase 220	1/6	200	13	1,280(0.5)	8	5	15		9.1	272×286×284×33
		1/6	200	11	1,520(0.5)		3	20		9.1	272×286×284×33
② PH-255A		1/3	320	17	2,048(0.5)		9	25	20	10.7	280×299×311×35
③ PH-405A		1/2	660	17	2,824(0.5)		9	32	25	17.7	309×310×320×63

Non-automatic type

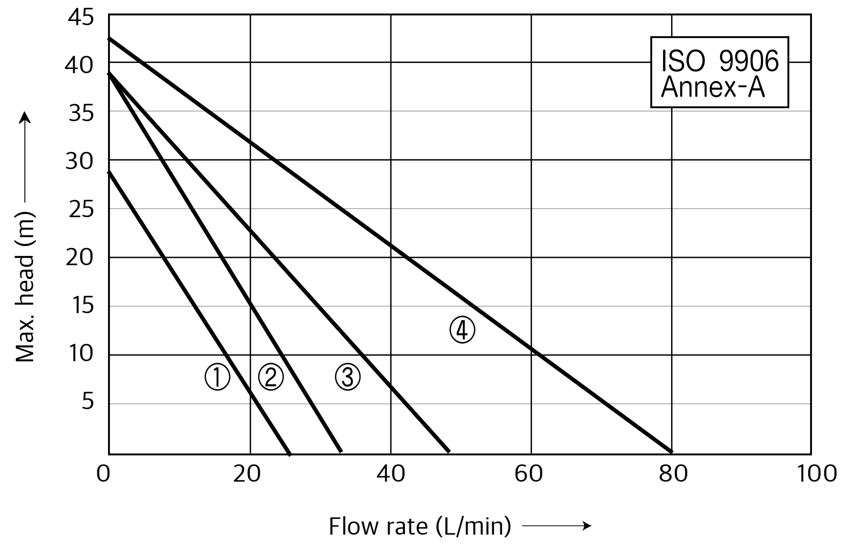


- Totally-enclosed aluminum motor frame
- Automatic when using pressure tank PP-750 (Optional)

PH-125W

Non-auto-self priming type, free impeller

PERFORMANCE CURVE

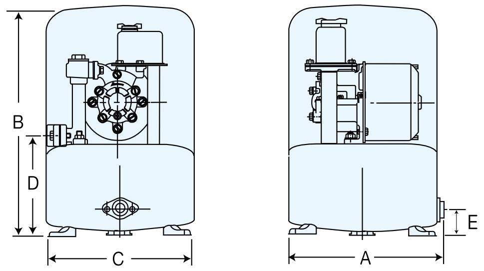


① PH-125W ② PH-255W ③ PH-405W ④ PH-750W

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PH-125W	Single phase 220	1/6	200	15	1,520(0.5)	0	15	20		7.9	272×219×284×33
② PH-255W		1/3	320	22	2,048(0.5)		22	25	20	9.3	280×242×311×35
③ PH-405W		1/2	660	26	2,824(0.5)		26	32	25	15.8	309×256×320×63
④ PH-750W		1	1,170	26	4,620(0.5)		26	40	32	26	309×290×341×62

Large type pressure tank

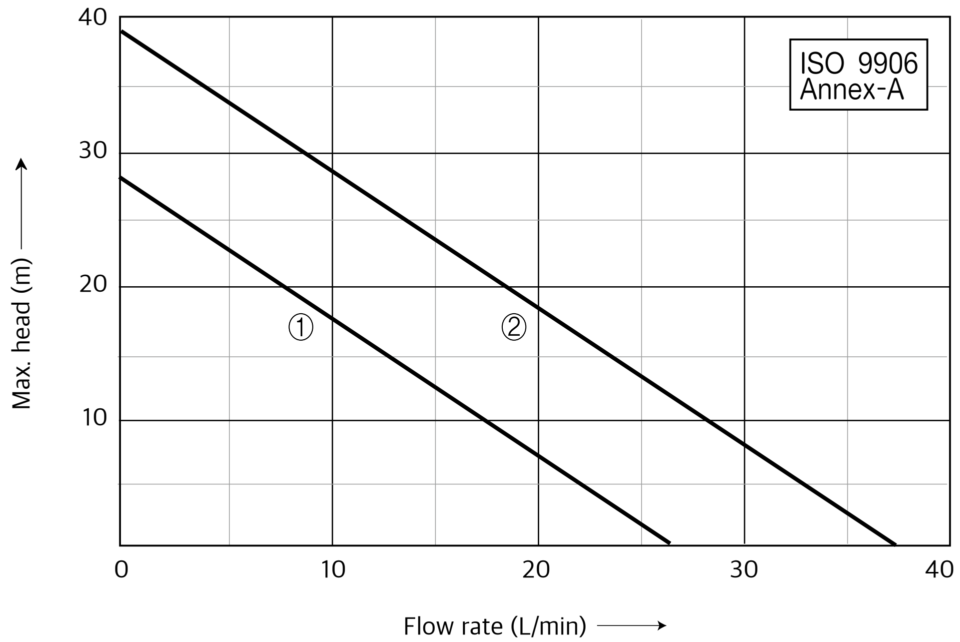


• High corrosion resistance with powder coating

PH-125R

Auto-self priming type, free impeller

PERFORMANCE CURVE



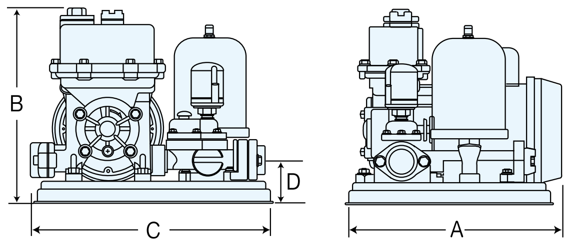
① PH-125R ② PH-255R

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D×E
① PH-125R	Single phase 220	1/6	200	11	1,520(0.5)	8	3	20		12.9	330×424×320×217×66
② PH-255R		1/3	660	17	2,048(0.5)		9	25	20	17.4	378×487×365×247×70

PH

Flow rate sensor type(Constant pressure operaion)

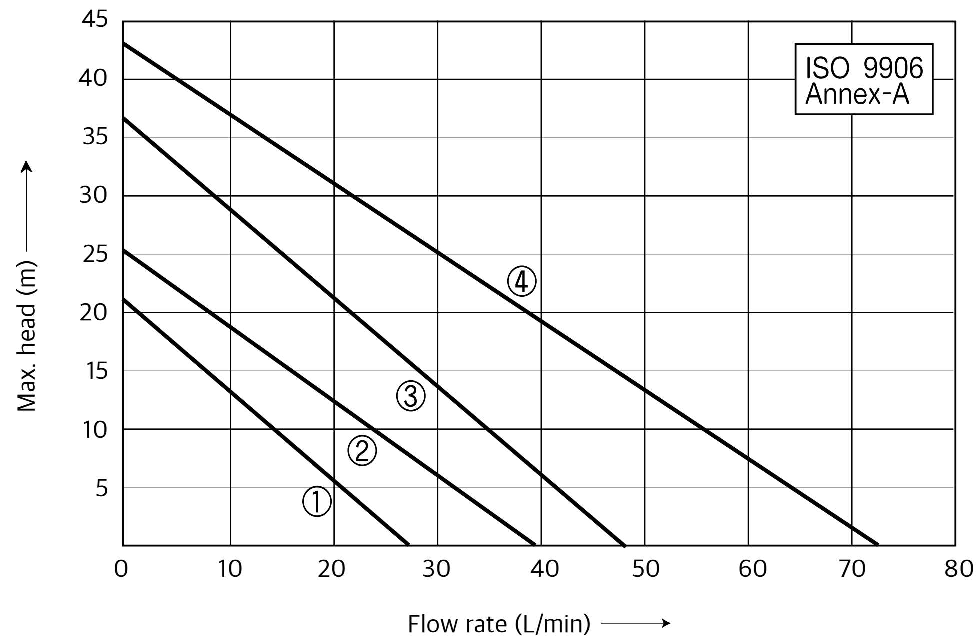


• Optimal to pressurize boiler water heater

PH-250C

Auto-self priming type, free impeller

PERFORMANCE CURVE



① PH-150C ② PH-250C ③ PH-450C ④ PH-760C

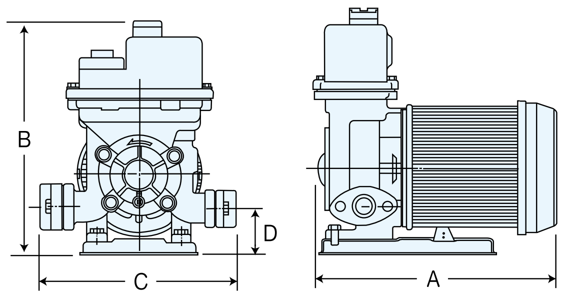
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PH-150C	Single phase 220	1/5	200	13	1,520(0.5)	8	5	20		14.1	312×275×378×67
② PH-250C		1/3	320	15	2,048(0.5)		7	25	20	16	314×289×335×67
③ PH-450C		1/2	660	17	2,824(0.5)		9	32	25	18.5	320×305×365×67
④ PH-760C		1	1,170	15	4,616(0.5)		7	40	32	25.2	322×313×368×67

Non-automatic type

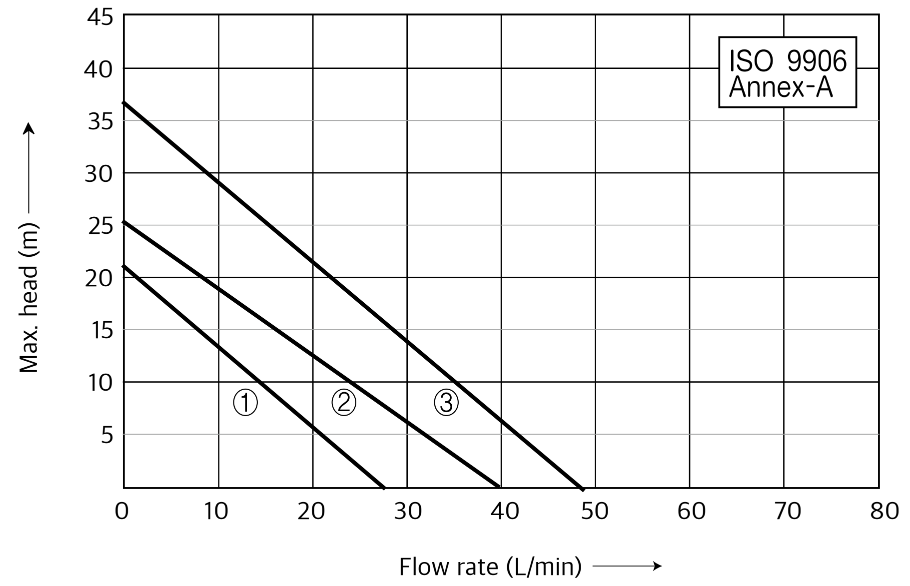
PH-160W

Non-auto-self priming type, free impeller



- High corrosion resistance with powder coating
- Automatic when using pressure tank PP-750 (Optional)

PERFORMANCE CURVE



① PH-160W ② PH-260W ③ PH-460W

SPECIFICATION

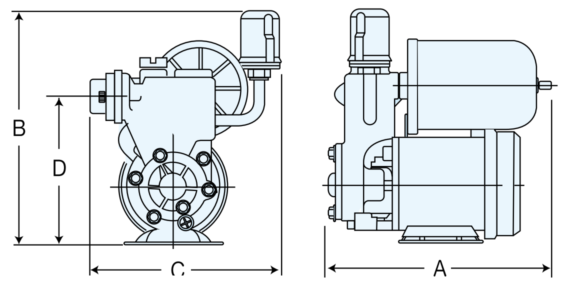
Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PH-160W	Single phase 220	1/6	200	151	1,520(0.5)	0	15	20		11.5	278×280×197×32
② PH-260W		1/3	320	22	2,048(0.5)		22	25	20	13	277×278×201×41
③ PH-460W		1/2	660	26	2,824(0.5)		26	32		16	298×280×234×56

PH-150A

Auto-self priming type

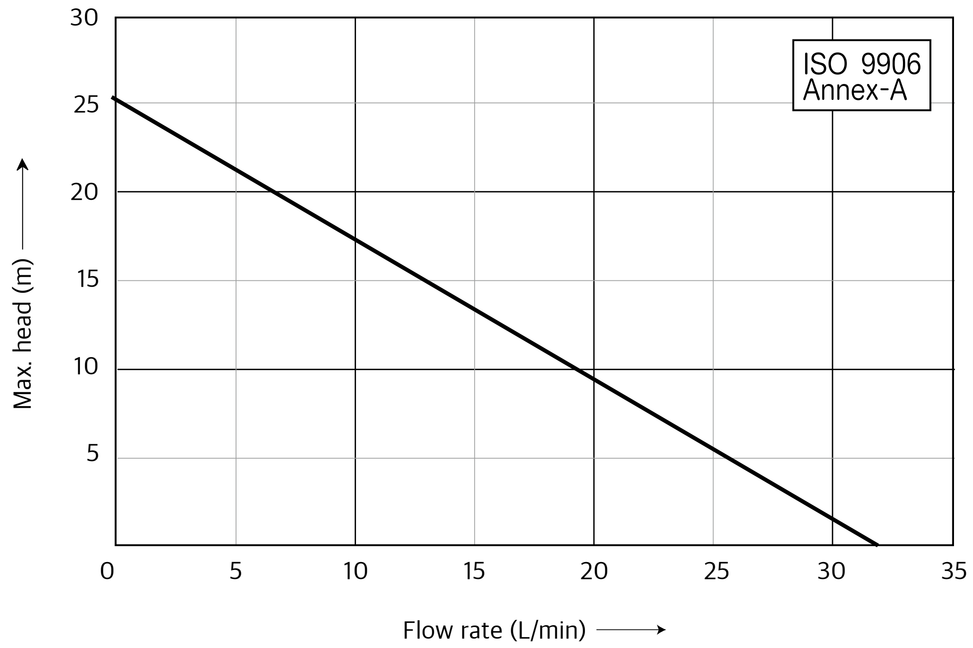
PH-150W

Auto-self priming type



- Totally-enclosed motor frame

PERFORMANCE CURVE



SPECIFICATION

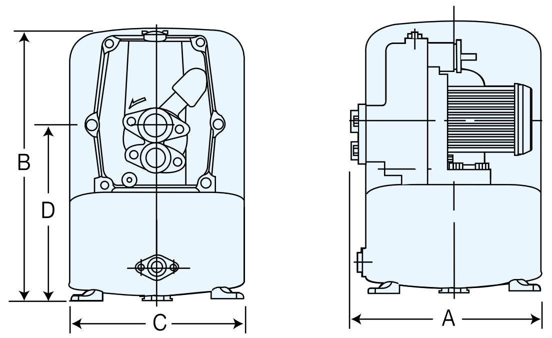
Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PH-150A	Single phase 220	1/6	200	11	1,520(0.5)	8	3	25	11	272×285×231×180
PH-150W			200	22	1,520(0.5)		14		9	230×217×159×170

Made in Korea

Pressure tank type

PC-266R

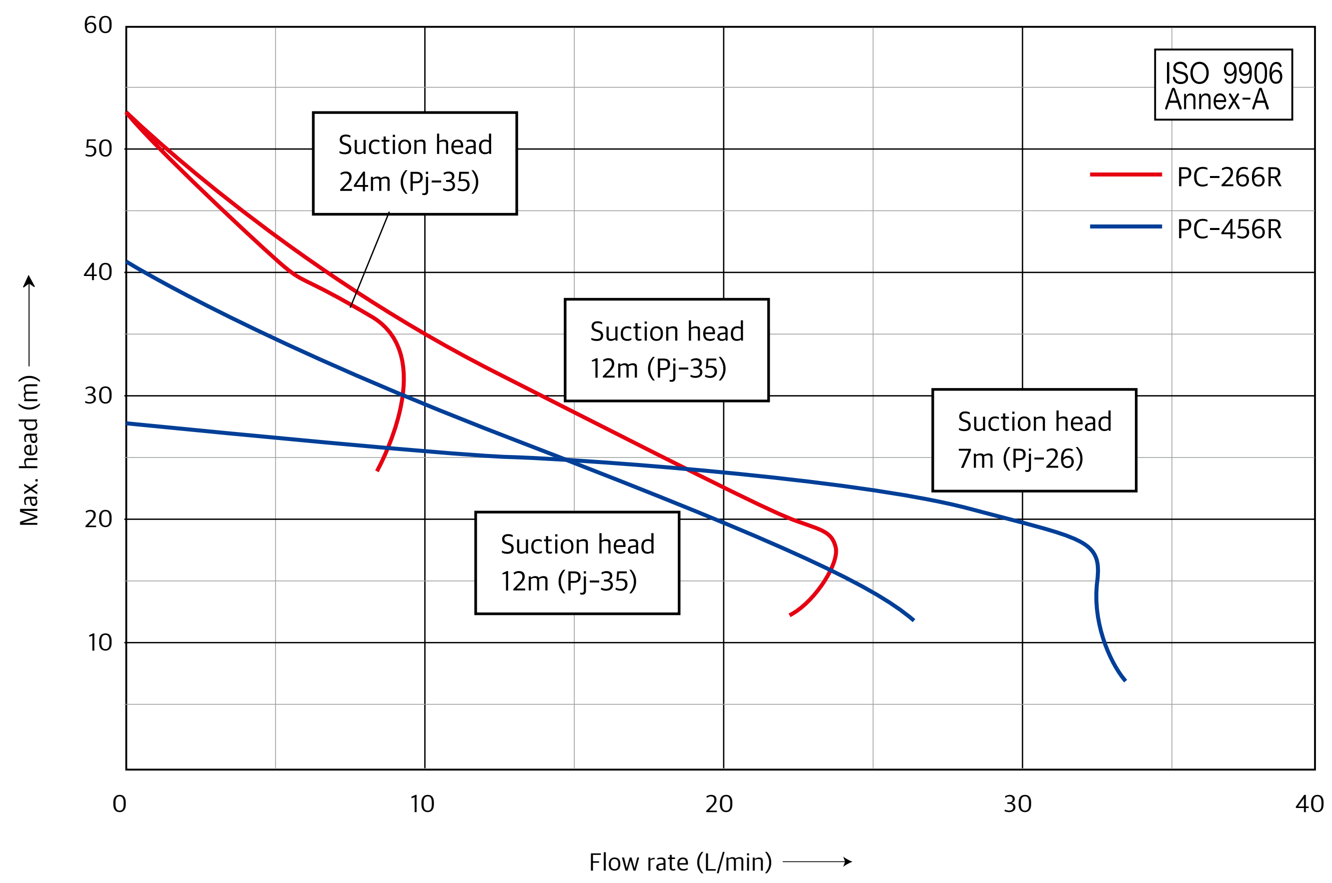
Deep well/Ceiling Combined use/Automatic type



Model selection guide

P	PUMP
C	CENTRIFUGAL
266	PUMP MODEL
A/R/W	NITROGEN TANK / PRESSURE TANK / NON-AUTOMATIC TYPE

PERFORMANCE CURVE



APPLICATION

Home
Villa, Row houses
Pressurizing hot water supply
Fountain

FEATURE

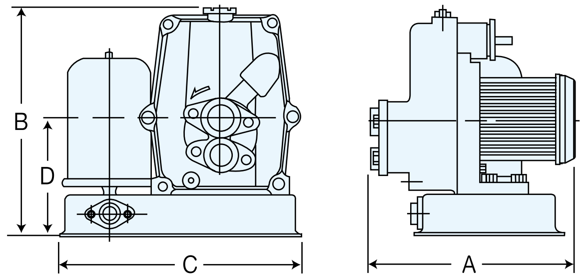
EASY TO MOVE WITH COMPACT DESIGN

- Improved safety with totally-enclosed motor frame
- Reduced weight and installation space with integral type(pump & motor)
- High corrosion resistance with powder coating
- Standard Jet : PJ-26
- Jet : PJ-35/PJ-36/PJ-40/PJ-51

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PC-266R	Single phase 220	1/3	500	24/36	1,850(0.5)	12/24	12	32	25	26.7	391×492×378×335
② PC-456R		1/2	900	19/24	3,500(0.5)	7/12	12	32	25	37.1	431×592×418×390

Nitrogen tank type

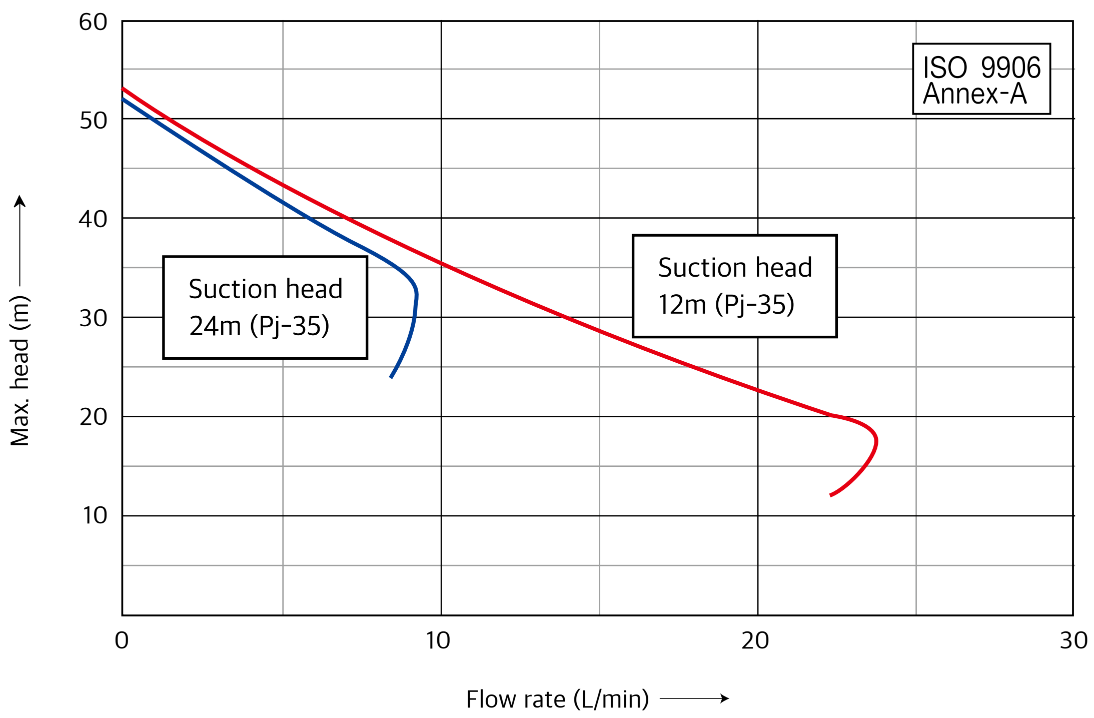


- Standard Jet : PJ-26
- Jet : PJ-35/PJ-36/PJ-40/PJ-51

PC-266A

Deep well/Ceiling Combined use/Automatic type

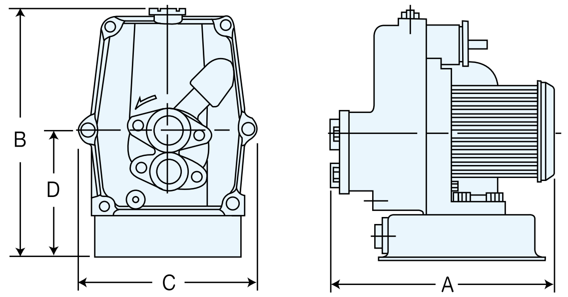
PERFORMANCE CURVE



SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
PC-266A	Single phase 220	1/3	500	24/36	1,950(0.5)	12/24	12	32	25	20.9	331×244×344×165

Non-automatic pump type

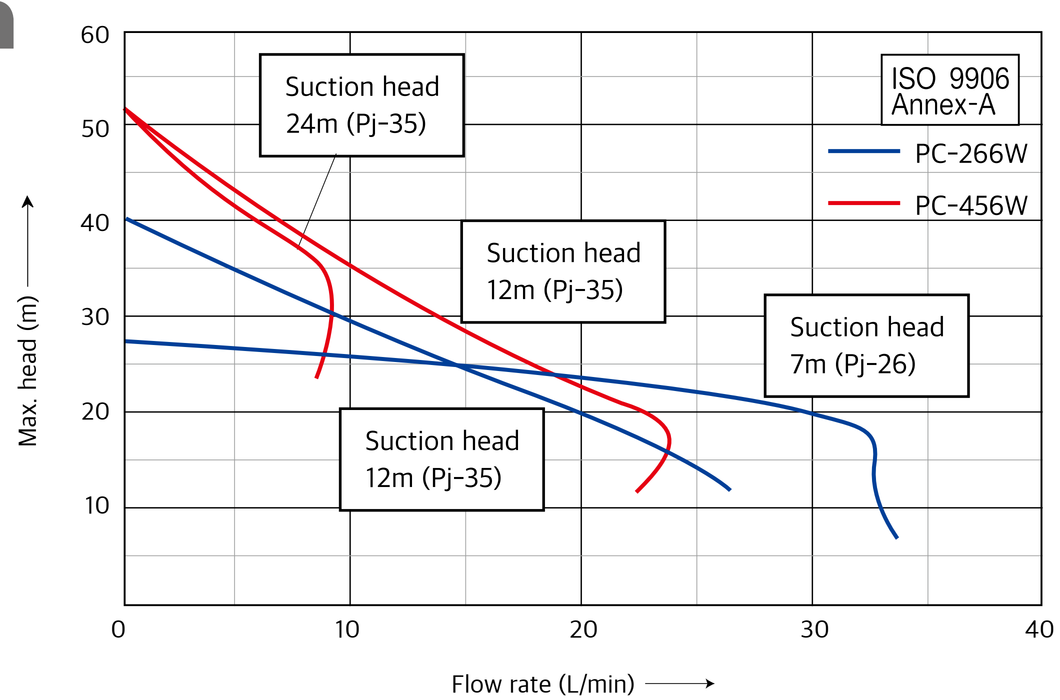


- Standard Jet : PJ-26
- Jet : PJ-35/PJ-36/PJ-40/PJ-51
- Automatic when using pressure tank PP-401 (Optional)

PC-266W

Deep well/Ceiling Combined use/Non-automatic type

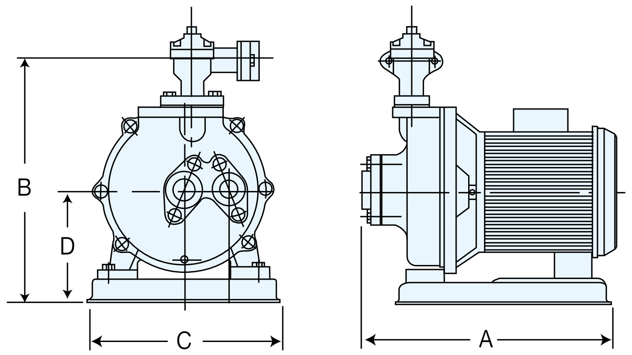
PERFORMANCE CURVE



SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PC-266W	Single phase 220	1/3	500	53/52	1,850(0.5)	12/24	41/28	Deep well pipe : 32 Shallow well pipe : 25	25	20.2	350×300×274×165
② PC-456W		1/2	900	28/40	3,500(0.5)	7/12	21/28	32	25	24.3	352×359×274×204

Non-automatic pump

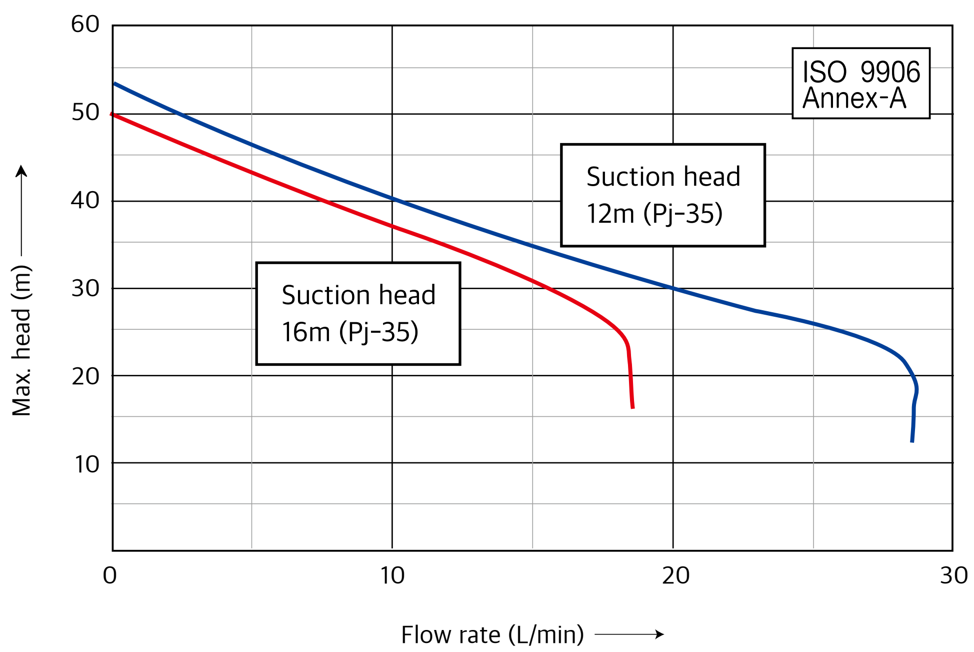


PC-766W

Deep well/Non-automatic type

- Jet : PJ-35/PJ-36/PJ-40/PJ-51
- Automatic when using pressure tank PP-750(Optional)

PERFORMANCE CURVE



SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
PC-766W	Single phase 220	1	1,300	53/50	1,600(0.5)	12/16	41/34	32	25	27.1	347×395×270×155

Home Booster Pumps

◇ Life span extension, low noise with minimal operation of pressure switch

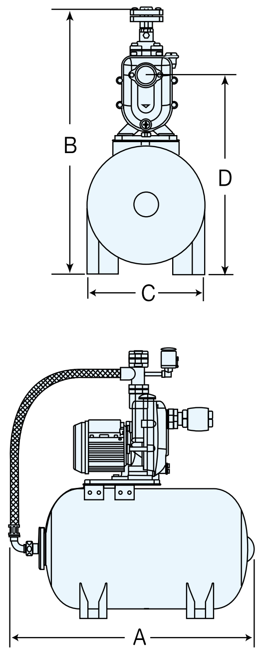
◇ Rust-proof with engineering plastic casing

◇ Excellent corrosion resistance with shaft and mechanical seal(Metal part) made of STS-316

◇ Suitable for the places where water pressure is weak and unstable

For water supply
Clear water pump

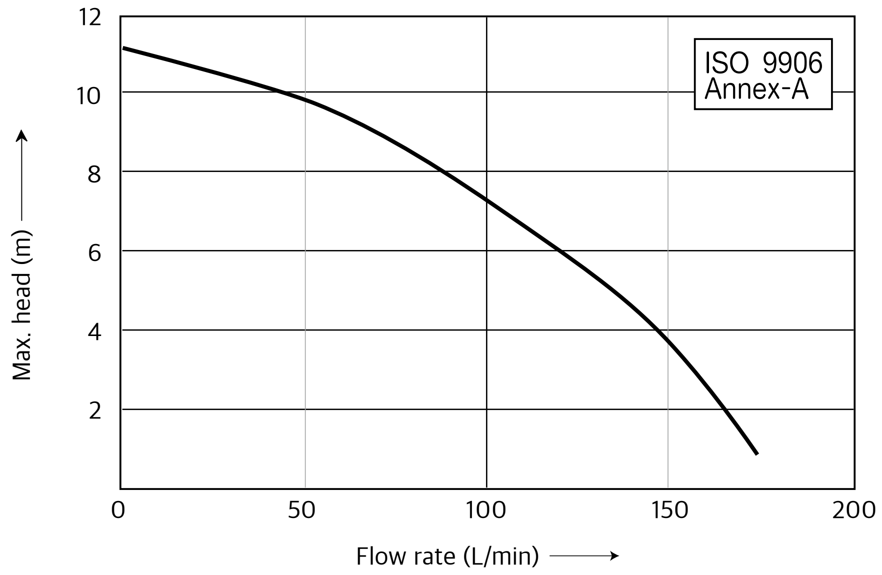
PA-600KV



Model selection guide

P	PUMP
A	AGRICULTURE
600	PUMP MODEL
KV	

PERFORMANCE CURVE



APPLICATION

Home
Fish tank & Aquarium water circulation
Pressurizing hot water supply
Cool & Warm water circulation
Villa, Row houses

SPECIFICATION

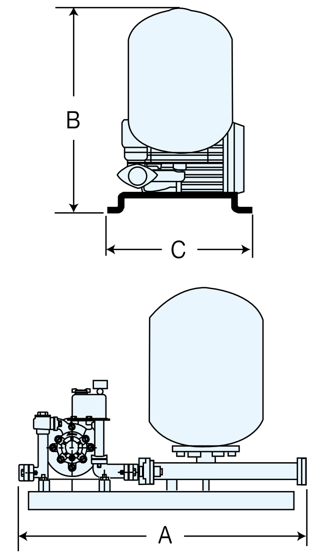
Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension (mm) A×B×C×D
PA-600KV	Single phase 220	4/5	PA-600KV	6	10,800(0.5)	0	6	40	29	730×900×380×650

PH-160K

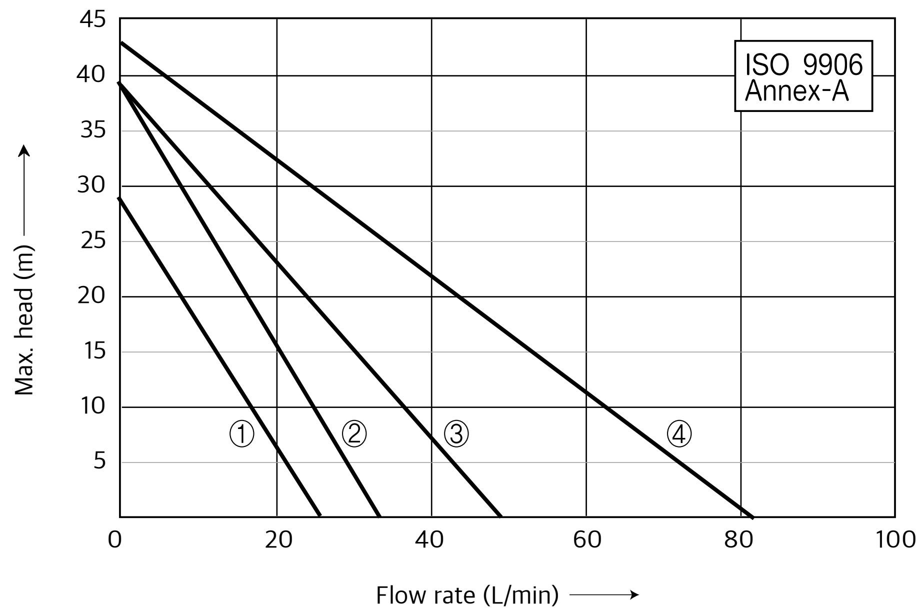
Nitrogen tank 18ℓ

PH-751K

Nitrogen tank 35ℓ



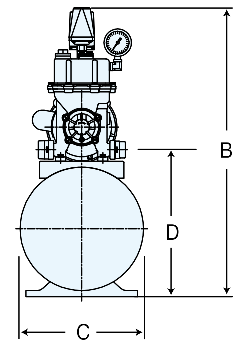
PERFORMANCE CURVE

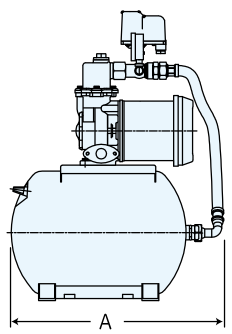


① PC-160K ② PH-260K ③ PH-260K ④ PH-260K

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current at full load(A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C
①	PH-160K	Single phase 220	1/6	200	11	1,520(0.5)	8	3	20	20	26	490×564×338
②	PH-260K		1/3	320	17	2,048(0.5)		9	20	20	27	490×570×338
③	PH-460K		1/2	660	17	2,824(0.5)		9	32	32	30	490×585×338
④	PH-750K		1	1,170	26	4,620(0.5)		18	40	32	36	600×668×368
	PH-751K				20		0	20			32	615×690×368





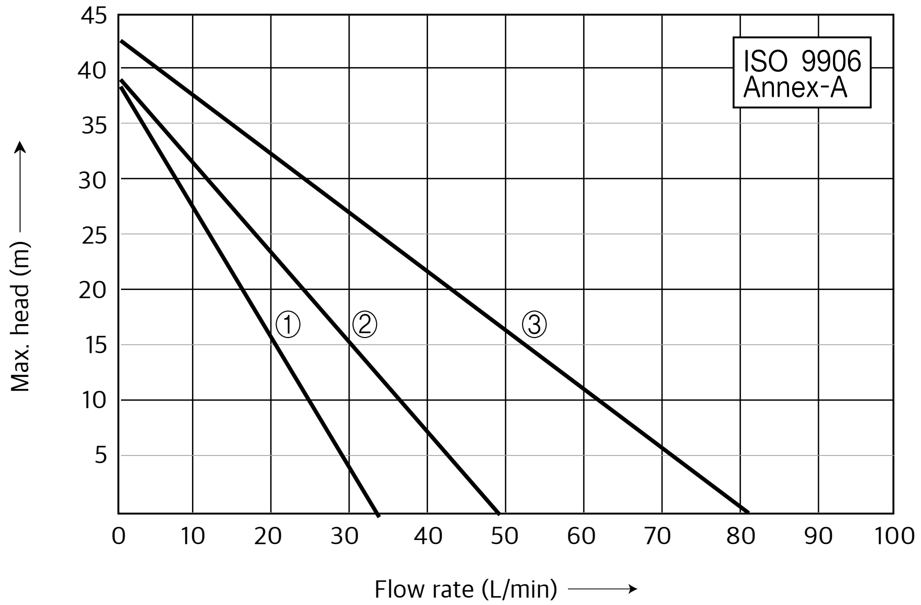
PH-260KV, 460KV

Self-priming type / Nitrogen tank 24ℓ

PH-750KV

Self-priming type / Nitrogen tank 35ℓ

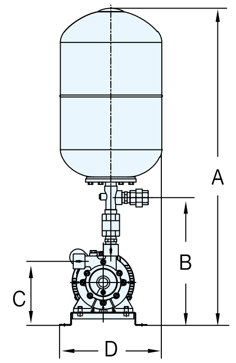
PERFORMANCE CURVE

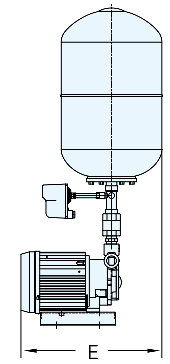


① PC-260KV ② PH-460KV ③ PH-750KV

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
① PH-260KV	Single phase 220	1/3	320	17	2,048(0.5)	8	9	25	20	21	500×684×292×348
② PH-460KV		1/2	660	17	2,824(0.5)		9	32	32	24	504×684×292×363
③ PH-750KV		1	1,170	26	4,620(0.5)		18	40	32	38	527×716×339×398





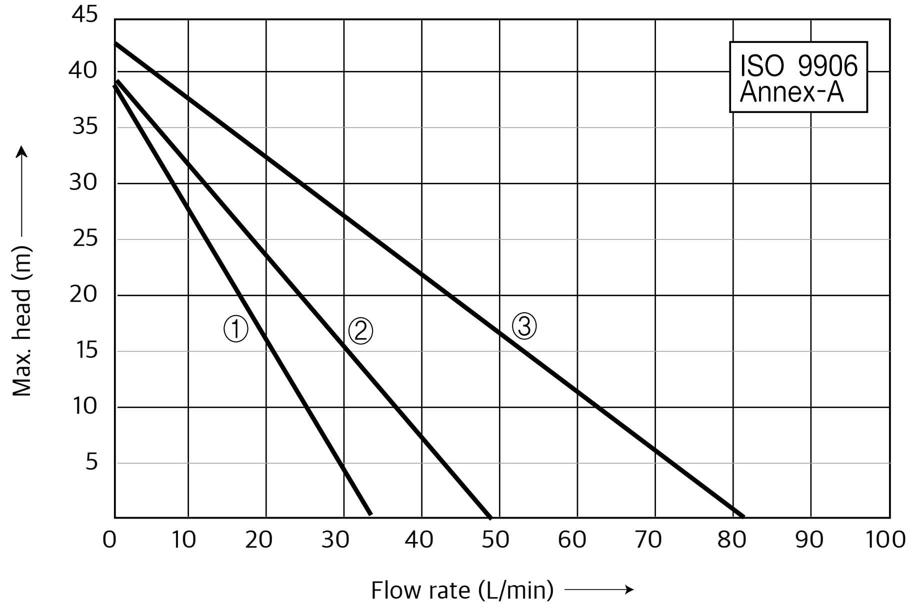
PH-250K-B

Nitrogen tank 18ℓ

PH-400K/755K-B

Nitrogen tank 35ℓ

PERFORMANCE CURVE



① PC-250K-B ② PH-400K-B ③ PH-755K-B

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Current at full load(A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D×E
① PH-250K-B	Single phase 220	1/3	320	12	2,048(0.5)	0	12	20	20	15	767×342×165×296×363
② PH-400K-B		1/2	660	16	2,824(0.5)		16	20	20	20	948×366×180×310×409
③ PH-755K-B		1	1,170	18	4,620(0.5)		18	25	25	26.5	976×393×197×313×434

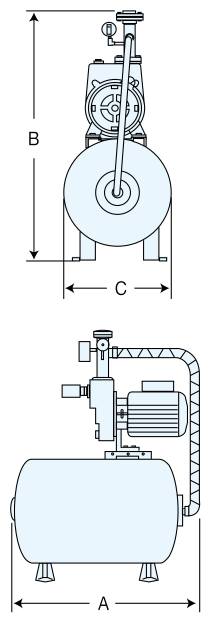
PH

PH-751KV

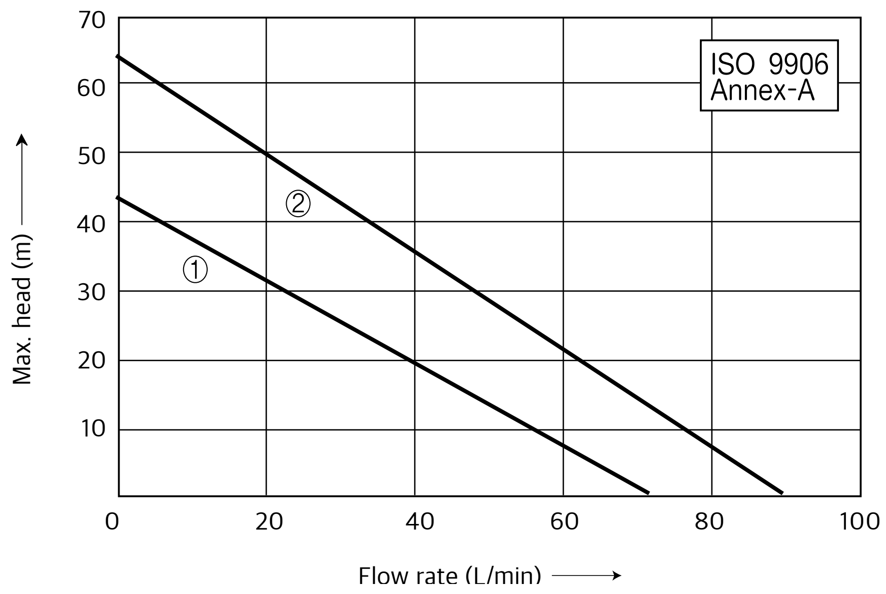
Large capacity corrosion resistant pressure tank : 60ℓ

PH-1588KV(-T)

Large capacity corrosion resistant pressure tank : 100ℓ



PERFORMANCE CURVE



① PH-751KV ② PH-1588KV(-T)

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C
①	PH-751KV	None : Single phase 220 T : Three phase 380	1	1,170	18	4,620(0.5)	0	18	40	32	37	715×675×495
②	PH-1588KV		2	1,780	34	5,648(0.5)	8	26	40		51	760×930×410
	PH-1588KV-T							26				

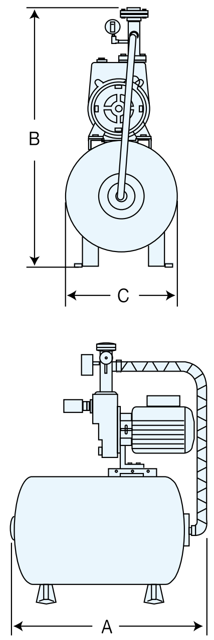
PA

PA-950KV

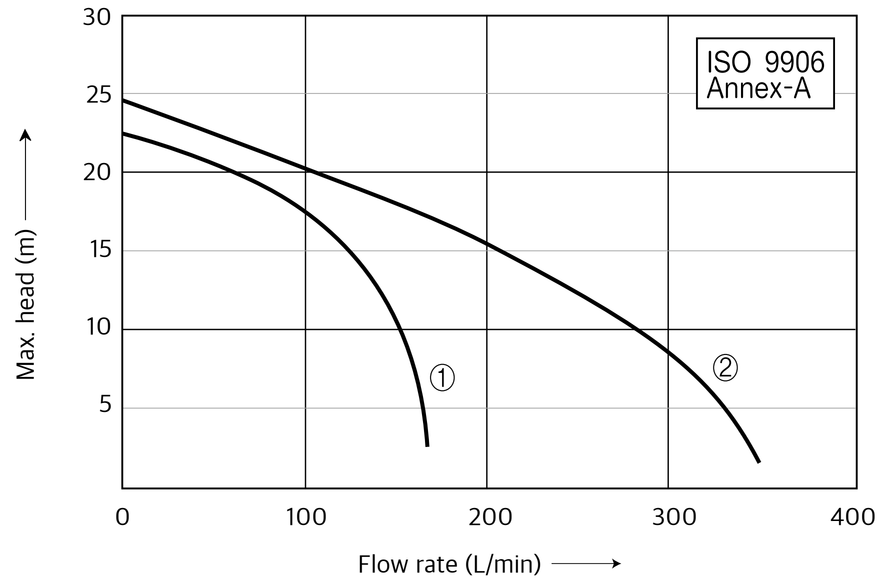
Tank : 60ℓ

PA-1688KV(-T)

Tank : 100ℓ



PERFORMANCE CURVE

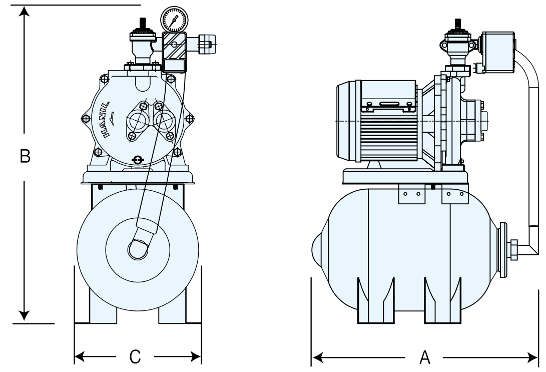


① PA-950KV ② PA-1688KV(-T)

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	PA-950KV	Single phase 220	1	1,130	10~14	12,000(0.5)	0	10~14	40	55	760×930×380
②	PA-1688KV		2	1,780	13	19,200(0.5)	2	13	50	63	890×1040×500
	PA-1688KV-T	Three phase 380					2				
		Three phase 440					2				

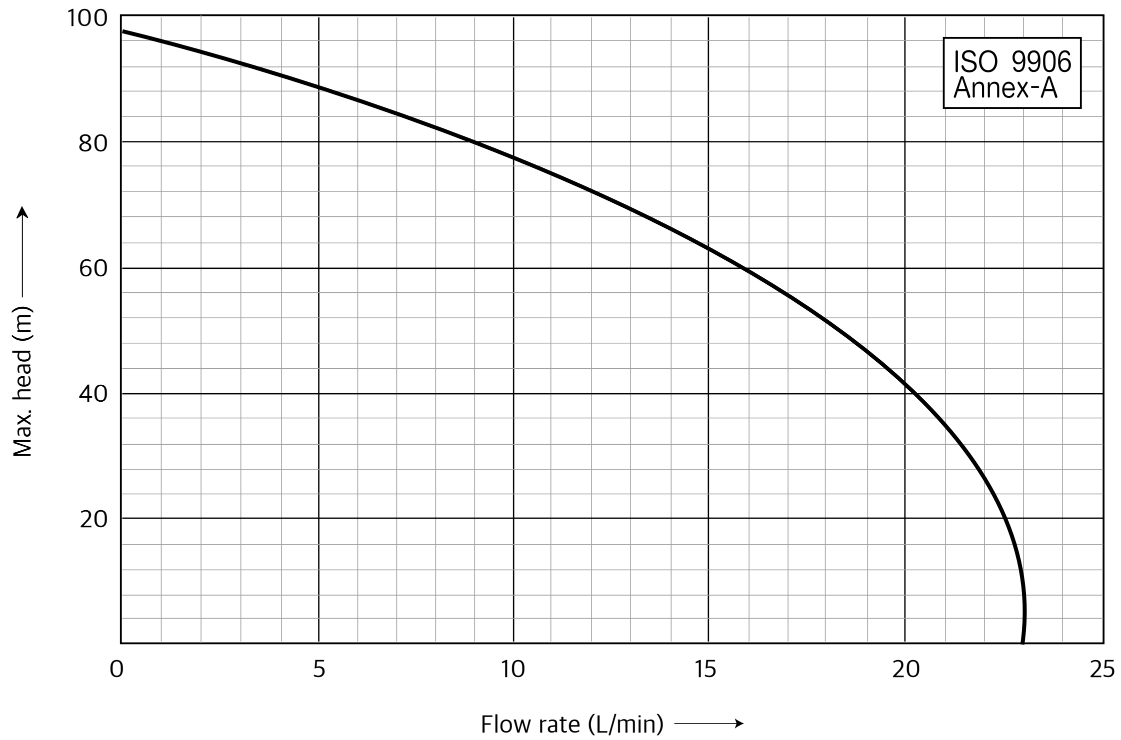
PC



PC-766KV

Tank : 24ℓ(Optional : 60ℓ)

PERFORMANCE CURVE



SPECIFICATION

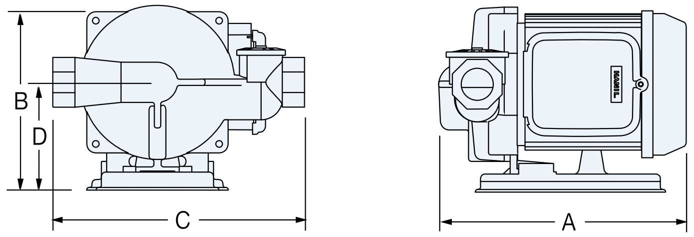
Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C
PC-766KV	Single phase 220	1	7.1	46	1,380(24)	30	16	32	25	42	330×685×440

Hanil

Top-Down Booster Pumps

- ◇ Top-down boosting system
- ◇ High efficiency
- ◇ Available constant pressure operation with flow sensor
- ◇ Low noise
- ◇ Volute type impeller
- ◇ Corrosion resistance and Wear resistance
- ◇ Totally-enclosed motor frame(Aluminum alloy)
- ◇ Safety by built-in motor protection device

HB-305A



Model selection guide

H	HANIL
B	BOILER
305A	PUMP MODEL

APPLICATION

Home

Fish tank & Aquarium water circulation

Pressurizing hot water supply

Cool & Warm water circulation

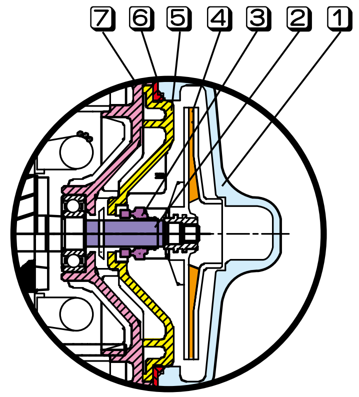
Villa, Row houses

FEATURE

TOTALLY-ENCLOSED MOTOR FRAME
(Aluminum alloy)

- Available constant pressure operation with flow sensor
- Excellent corrosion resistance with mechanical seal(metal part) and shaft
- Burning prevention from overload by built-in motor protection device
- Excellent water proof with wear resistant mechanical seal

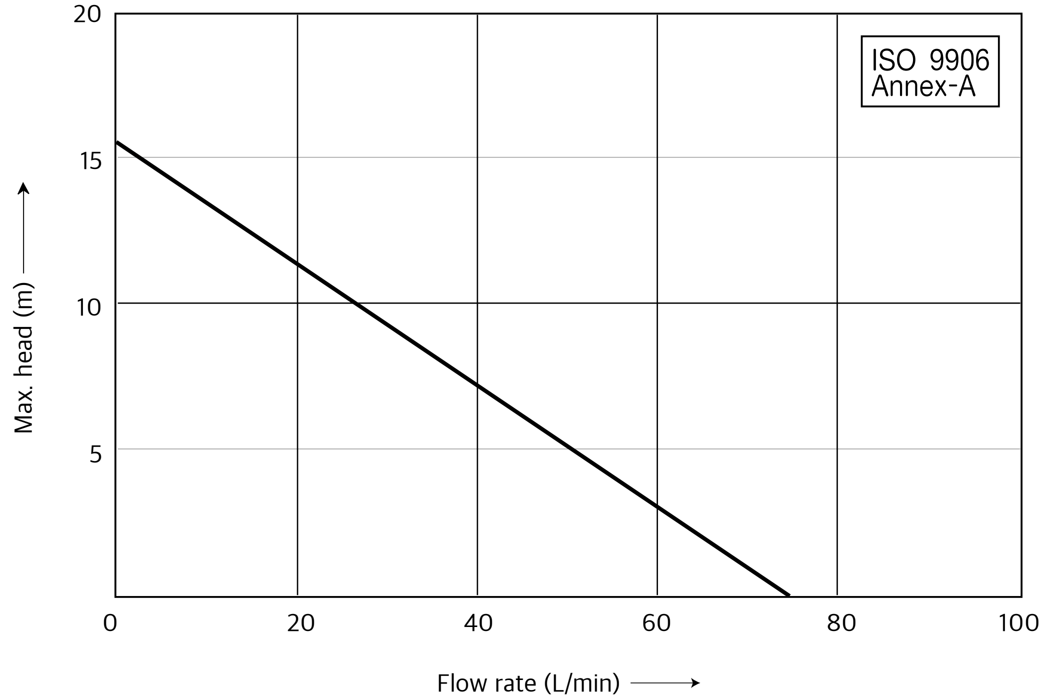
CROSS SECTION



List of material

NO	Parts	Material	
1	Casing	GC200+α coating both sides(HB-305A-α)	
2	Motor shaft	STS-303	
3	Mechanical seal	STS-304(Metal parts)	
4	Impeller	NORYL	Heat resisting high strength resin
5	Sticking plate_holder	PPS	
6	Casing packing	NBR	
7	Holder	ALDC(Aluminum alloy)	

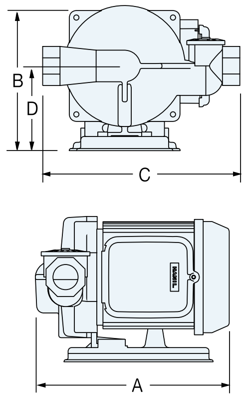
PERFORMANCE CURVE



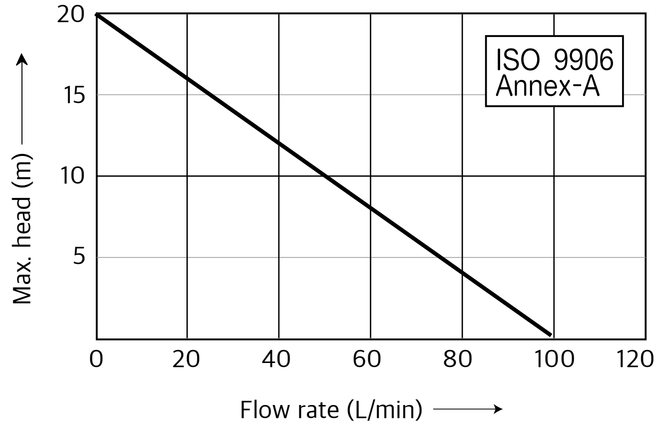
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Flow rate(L/h) at Max. head(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
HB-305A	Single phase 220	2/5	300	13	3,900	0	13	25	8.2	234×175×238×102

HB-805A



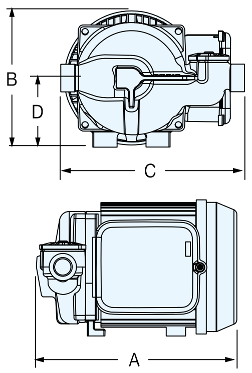
PERFORMANCE CURVE



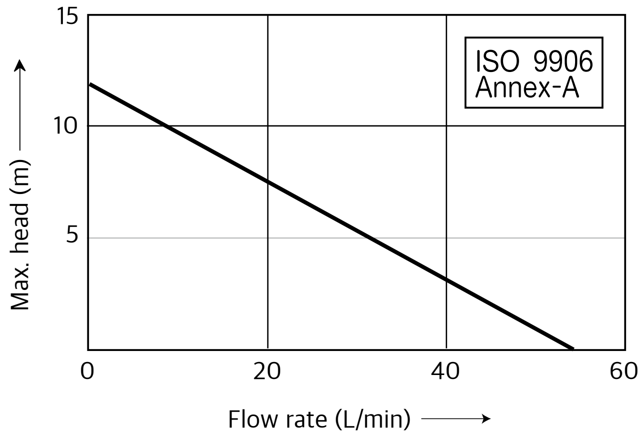
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Flow rate(L/h) at Max. head(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
HB-805A	Single phase 220	4/5	600	16	6,100	0	16	32	13	269×176×270×93

HB-205A



PERFORMANCE CURVE



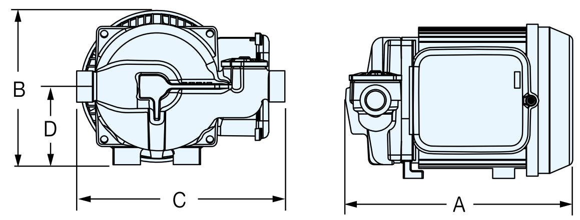
SPECIFICATION

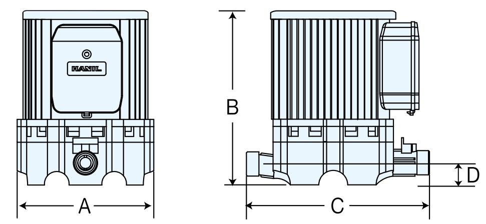
Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Flow rate(L/h) at Max. head(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
HB-205A	Single phase 220	1/3	250	10	3,000	0	10	20	5.9	199×141×185×72

For water supply
Clear water pump

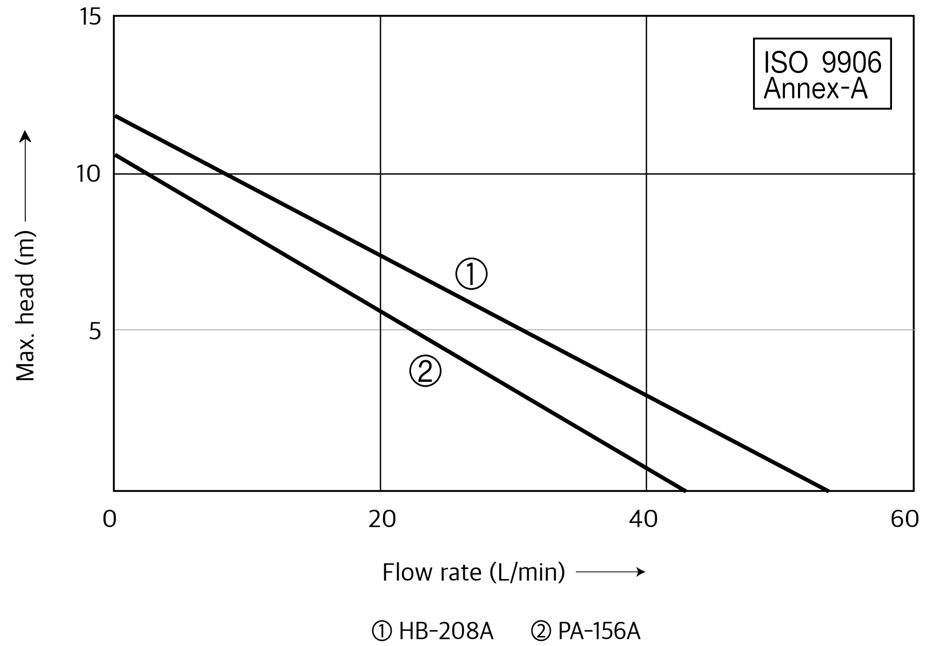
HB-208A

PA-156A





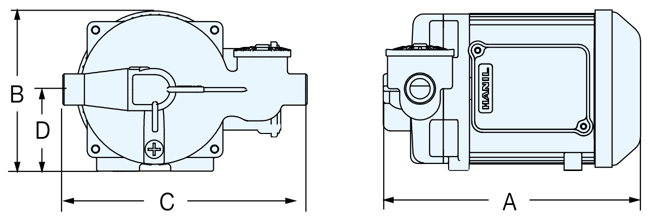
PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Flow rate(L/h) at Max. head(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
①	HB-208A	Single phase 220	1/3	250	10	3,000	0	10	20	5.9	199×141×185×72
②	PA-156A		1/6	180	9.5	2,520		9.5		5.1	142×184×182×23

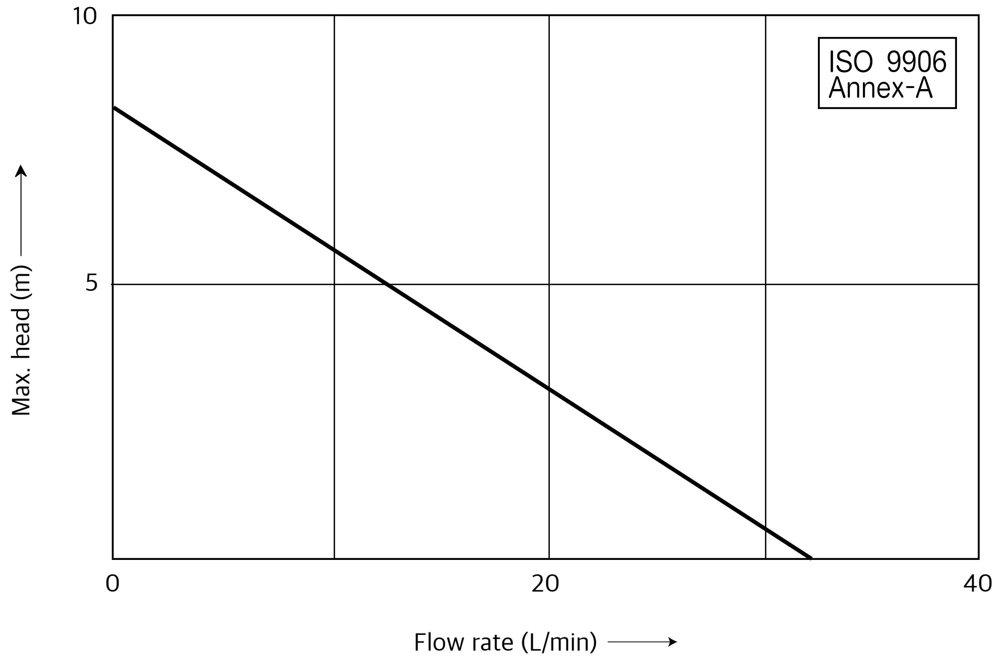
PA



PA-139A

• Convenient to move and maintain in the narrow space

PERFORMANCE CURVE



SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Flow rate(L/h) at Max. head(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-139A	Single phase 220	1/6	150	8	2,100	0	8	20	4.6	190×117×180×60

Hanil

ALL Stainless steel Agricultural & Industrial Pumps

PASS, HIE1(S), PA

◇ Clean water

◇ Low noise, Low vibration

◇ Durability, Wear resistance

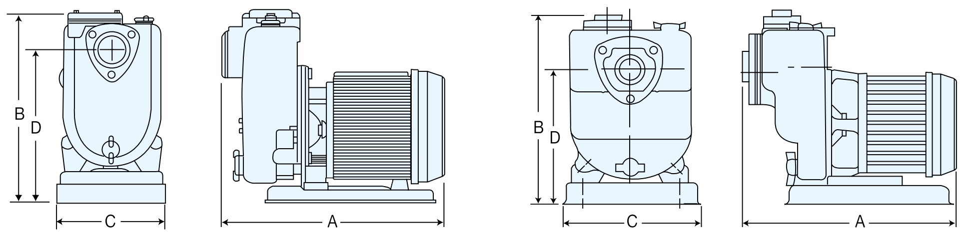
◇ Enhance Seawater and Chemical resistance with the Shaft made of STS-316

ALL STAINLESS STEEL AGRICULTURAL & INDUSTRIAL PUMPS

PASS

PASS-1688SS
Self-priming type

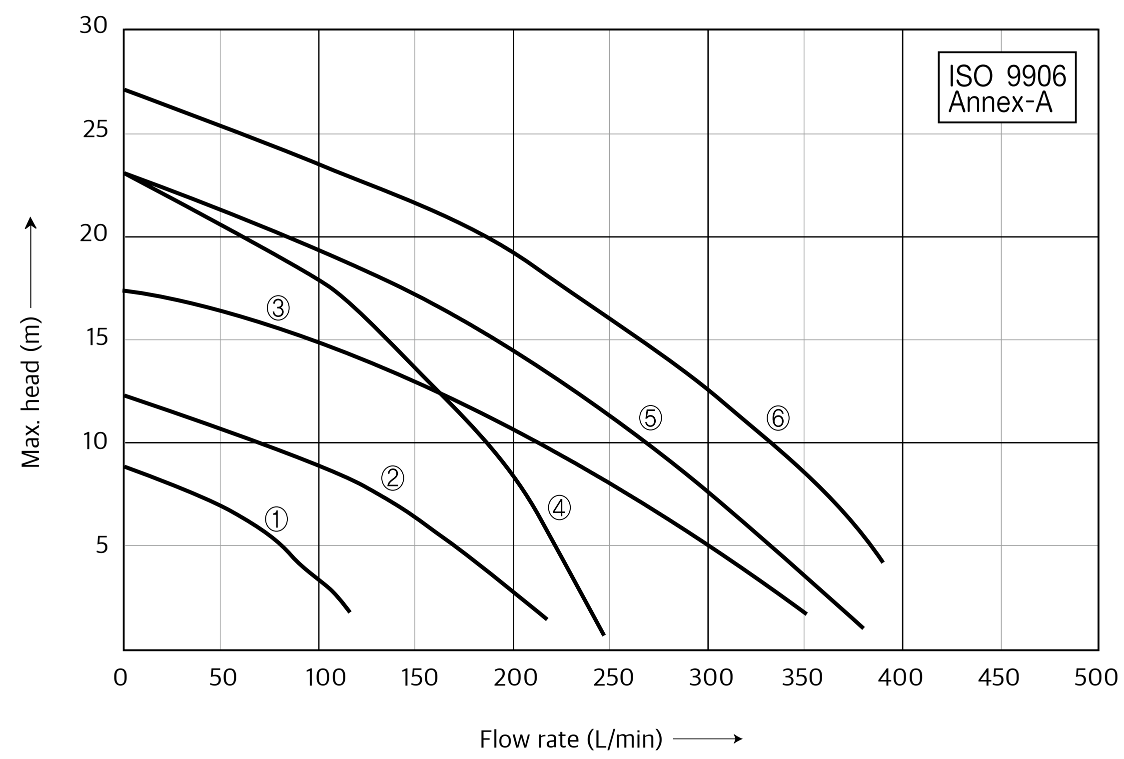
PASS-950SS
Self-priming type



Model selection guide

P	PUMP
A	AGRICULTURE
S	STAINLESS
S	STEEL
1688	PUMP MODEL

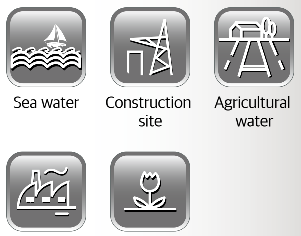
PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Input (W)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at 0.5(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
①	PASS-280SS	None : Single phase 220 T : Three phase 220/380	1/3	400	·	9	8,560(0.5)	5	4	32	32	13	350×280×178×212
②	PASS-630SS		4/5	600	·	12	14,400(0.5)	8	4	40	40	19.5	340×292×200×203
	PASS-630SS-T			600	·	12	14,400(0.5)	8	4				
③	PASS-930SS		1.2	1,170	·	17	20,800(0.5)	8.5	8.5	50	50	28	390×350×210×265
	PASS-930SS-T			1,170	5.2/3.1	17	20,800(0.5)	8.5	8.5				
④	PASS-950SS		1	1,170	·	23	14,400(0.5)	5	18	50	50	32	395×346×270×265
	PASS-950SS-T			1,170	4.8/2.8	23	14,400(0.5)	5	18				
⑤	PASS-1688SS		2	1,780	12.5	22	22,240(0.5)	8	14	50	50	38	423×360×270×270
	PASS-1688SS-T			1,780	7.2/4.2	22	22,240(0.5)	8	14				
⑥	PASS-2288SS-T		4	2,800	12.1/6.7	25	24,000(0.5)	8	17	50	50	53	417×382×270×310

APPLICATION



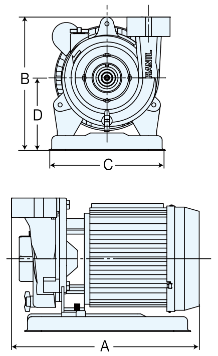
FEATURE

ENHANCE SEAWATER, CHEMICAL AND WEAR RESISTANCE

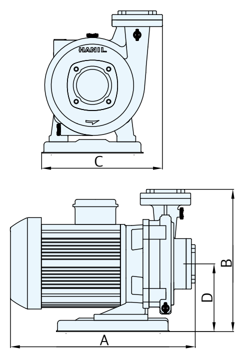
with the Shaft made of STS-316

- Water contact surface, Impeller and Casing are made of SSC13 by Lost-wax
- Useable in PH 5.8~8.6

PASS

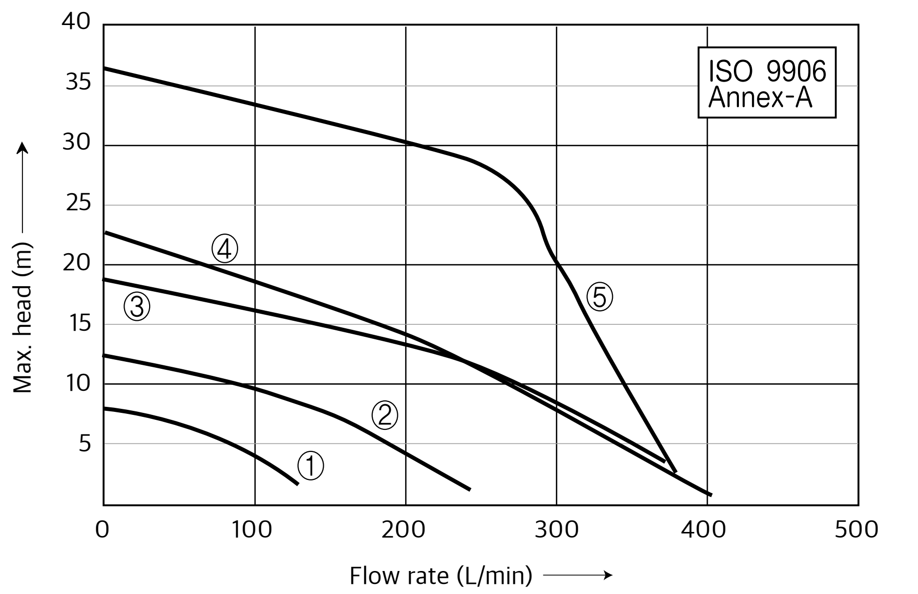


PASS-931SS
Non-self priming pump



PASS-4000SS-T
Non-self priming pump

PERFORMANCE CURVE



① PASS-281SS ② PASS-631SS ③ PASS-931SS ④ PASS-1681SS ⑤ PASS-4000SS-T

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Input (W)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at 0.5(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D
①	PASS-281SS	None : Single phase 220 T : Three phase 220/380	1/3	400	·	7	8,160(0.5)	0	7	32	32	9	260×196×170×105
②	PASS-631SS		4/5	600	·	12	16,000(0.5)	0	12	40	40	14	274×215×200×113
	PASS-631SS-T			600	4.0/2.3	12	16,000(0.5)	0	12				
③	PASS-931SS		1.2	1,170	·	17	23,120(0.5)	0	17	50	50	23	340×245×210×130
	PASS-931SS-T			1,170	·	17	23,120(0.5)	0	17				
④	PASS-1681SS		2	1,780	13	21	24,000(0.5)	0	21	50	50	29	360×280×270×157
	PASS-1681SS-T			1,780	8.3/4.5	21	24,000(0.5)	0	21				
⑤	PASS-4000SS-T		5	3,120	15.3/8.7	35	24,720(0.5)	0	35	80	80	59	491×380×270×180

Hanil

All Stainless steel Inverter Pumps

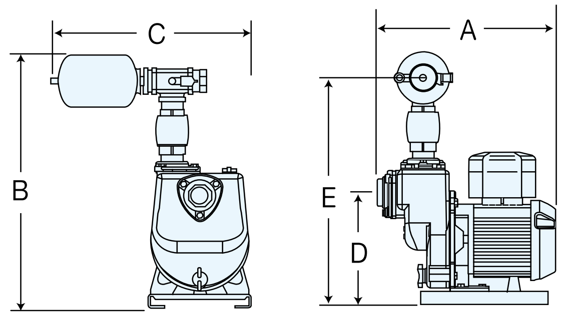
HIE1(S)

◇ Water contact surface, Impeller and Casing are made of SSC13 by Lost-wax
◇ Enhance durability and Wear resistance with the Shaft made of STS-316
◇ Useable in PH 5.8~8.6

HIE1(S)

HIE1(S)-1688SS

HIE1(S)-950SS



Model selection guide

H	HANIL
I	INVERTER
E	EACH
1	THE NUMBER OF PUMP
(S)	STAINLESS STEEL
1688/950	PUMP MODEL
SS	STAINLESS STEEL
NONE -3T	SINGLE PHASE 220V THREE PHASE 380V

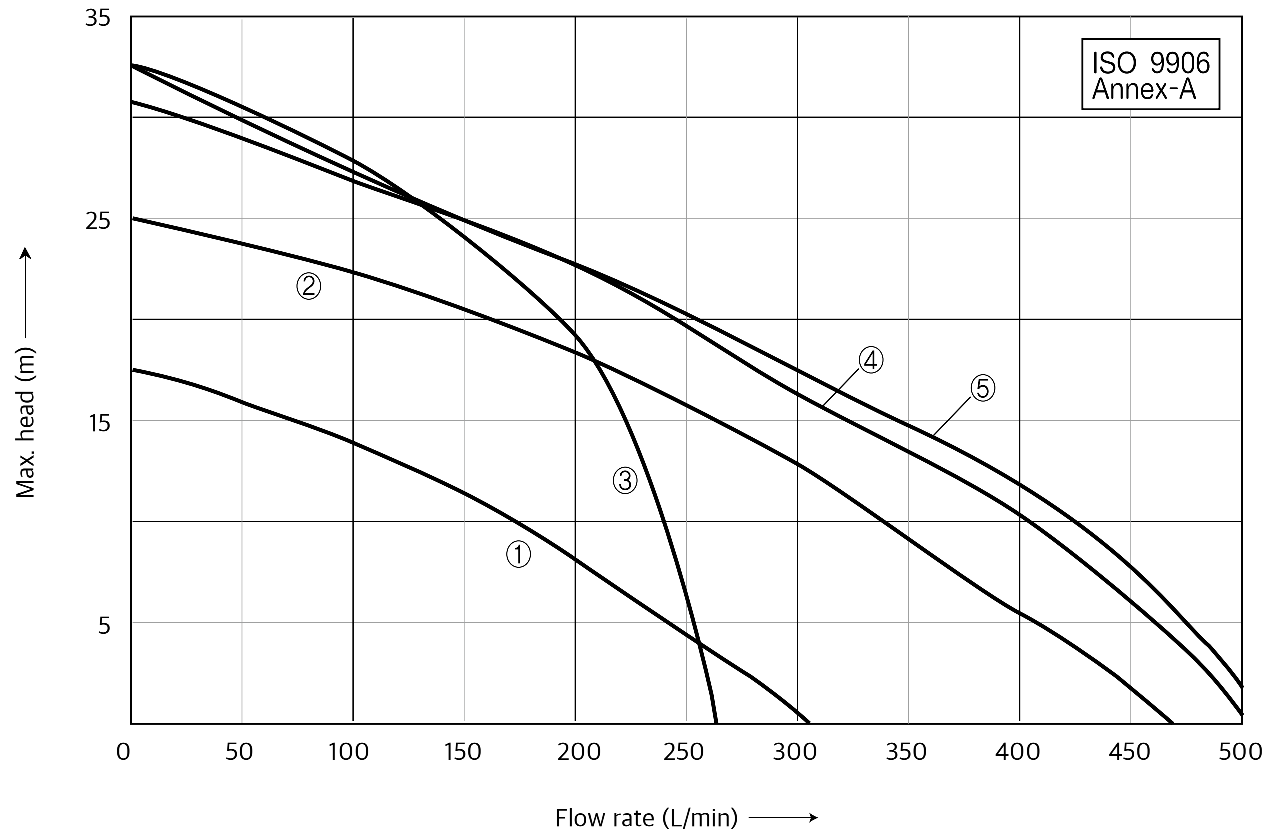
APPLICATION

FEATURE

HIGH EFFICIENCY with individual inverter

- Water contact surface, Impeller and Casing are made of SSC13 by Lost-wax
- Seawater-resistant, Chemical-resistant with Shaft(STS-316)
- Constant water supply pressure by inverter control
  (Pressure deviation: Setting pressure ±0.2kg/cm²)

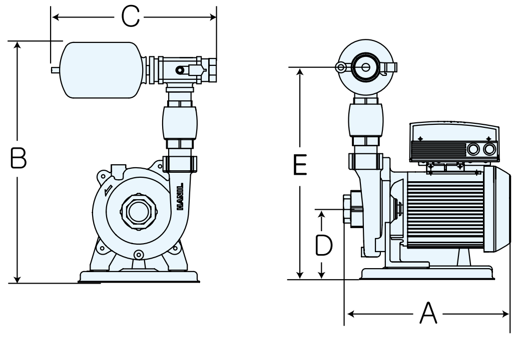
PERFORMANCE CURVE



SPECIFICATION

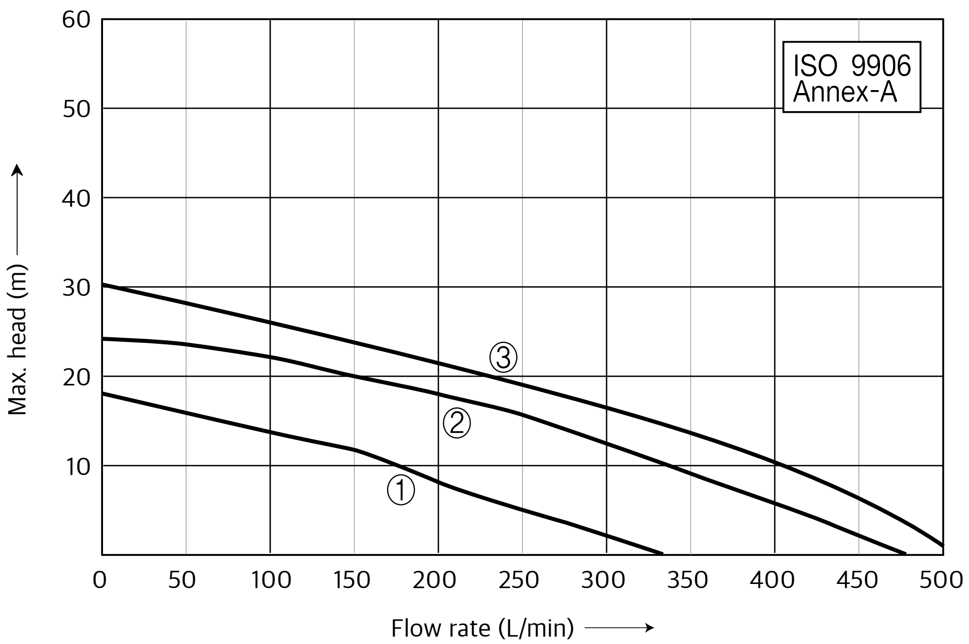
Model / Inverter control	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at 0.5(m)	Suction lift (m)	Suction, Discharge diameter (A)		Weight (kg)	Dimension(mm) A×B×C×D×E
① HIE1(S)-630SS	None : Single phase 220 3T : Three phase 380	4/5	17	12,600	0	40	40	23	340×540×406×203×473
② HIE1(S)-930SS		1.2	24	18,000	0	50	40	24.5	393×664×217×265×397
③ HIE1(S)-950SS		1	30	14,000	0	50	40	37	406×590×470×265×527
④ HIE1(S)-1688SS-3T		2	30	21,000	0	50	40	42	423×601×337×270×540
⑤ HIE1(S)-2288SS-3T		4	35	25,000	0	50	40	58	501×634×457×310×571

HIE1(S)



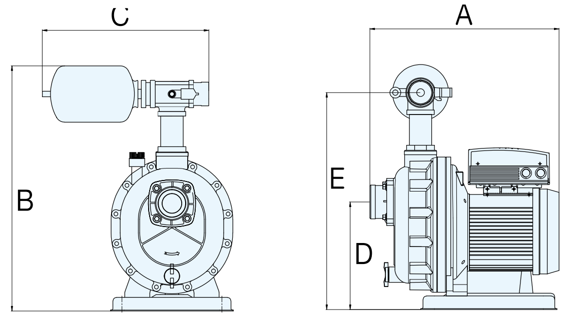
HIE1(S)-931SS

PERFORMANCE CURVE



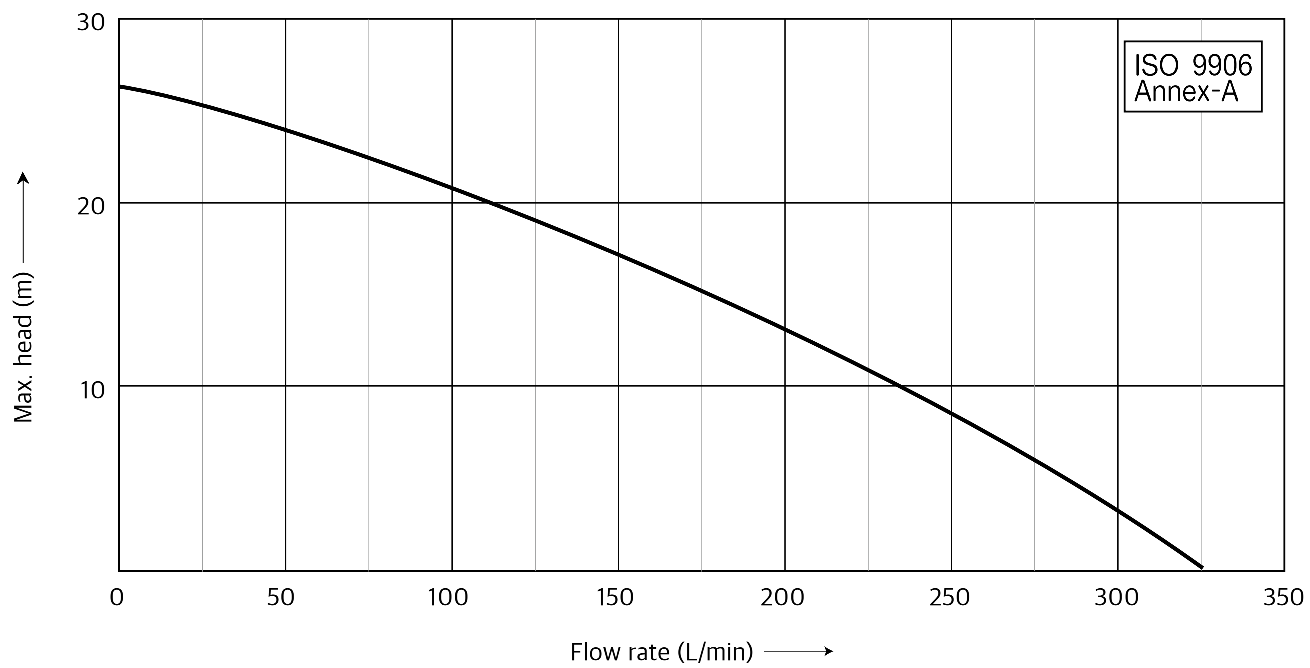
SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Input (W)	Current at full load(A)	Max. head (m)	Rated flow rate(L/h) at 0.5(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension (mm) A×B×C×D×E
①	HIE1(S)-631SS	None : Single phase 220	4/5	950	·	17	14,000	0	17	40	24.5	304×452×334×113×390
②	HIE1(S)-931SS		1.2	·	13	24	20,400	0	24	50	24.5	363×495×334×130×432
③	HIE1(S)-1681SS-3T	3T : Three phase 380	2	·	4.3	30	24,400	0	30	50	43	363×495×334×157×477



HIE1S-1000SS

PERFORMANCE CURVE



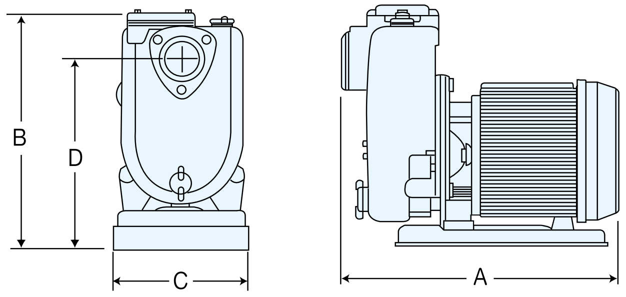
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D×E
HIE1S-1000SS	Single phase 220	1.2	24	20,000(0.5)	6	50	32	410×551×450×237×478

Adopted impeller

PA-630SS / 930SS

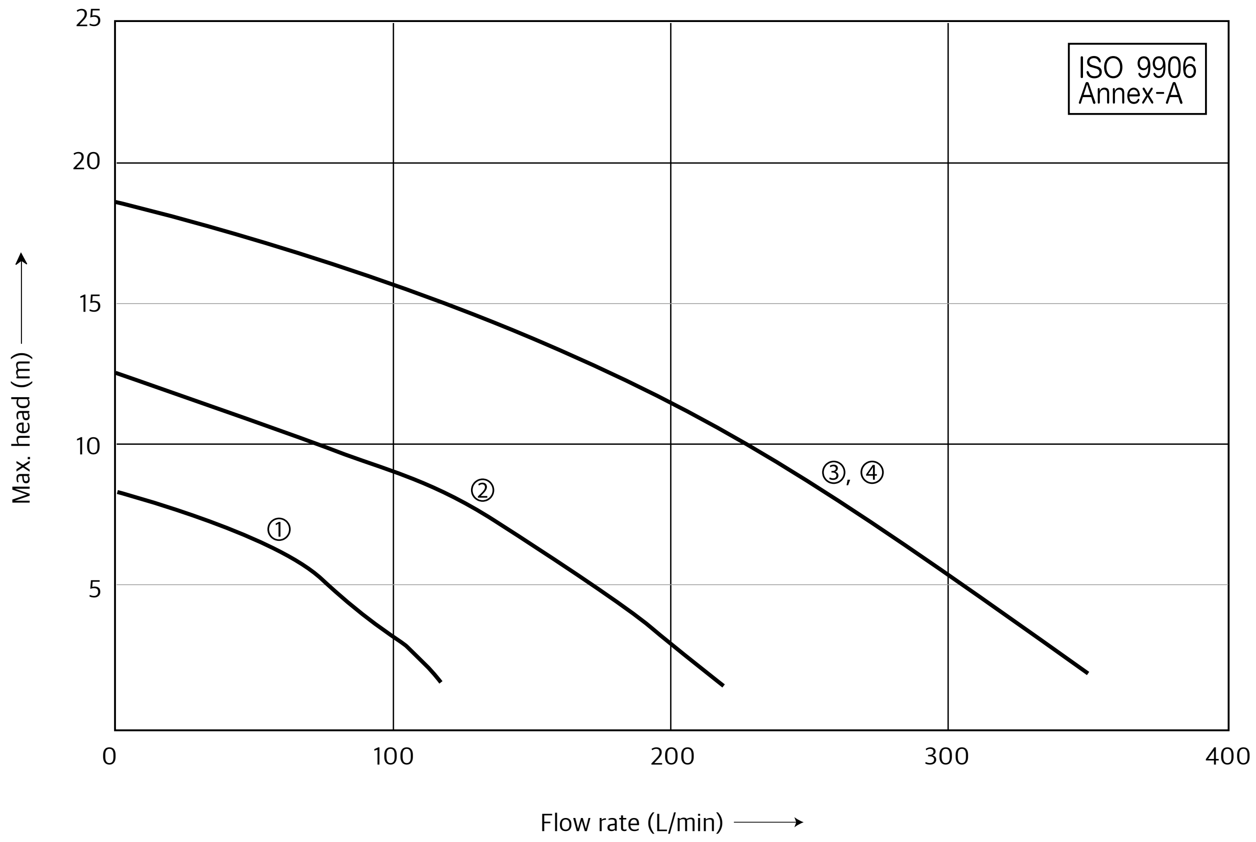
Self-priming type



Model selection guide

P	PUMP
A	AGRICULTURE
630	PUMP MODEL
SS	STAINLESS STEEL

PERFORMANCE CURVE



① PA-280 ② PA-630/630SS ③ PA-930/930SS ④ PA-930-T

APPLICATION

Construction site

Agricultural water

Industrial water

Sprinkler in the green house

FEATURE

Reinforced durability

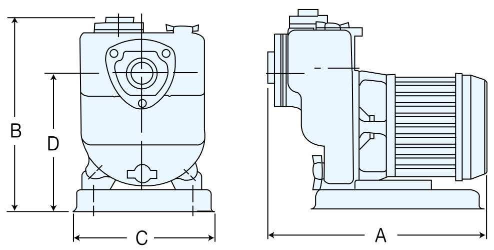
AGRICULTURAL & INDUSTRIAL PUMP

- PA-630SS/PA-930SS: Stainless steel impeller(STS-304)
- For seawater and weak acid
- Automatic when using pressure tank PP-850(Optional)

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Input (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
①	PA-280	Single phase 220 T : Three phase 220/380	1/3	400	9	8,560(0.5)	5	4	32	12.5	305×280×178×212
②	PA-630		4/5	600	12	14,400(0.5)	8	4	40	19.5	340×292×200×203
	PA-630SS			600	12	14,400(0.5)	8	4			
③	PA-930		1.2	1,170	17	20,800(0.5)	8.5	8.5	50	27.4	390×350×210×265
	PA-930SS			1,170	17	20,800(0.5)	8.5	8.5			
④	PA-930-T			1,170	17	20,800(0.5)	8.5	8.5		28	

PA-950
Self-priming type

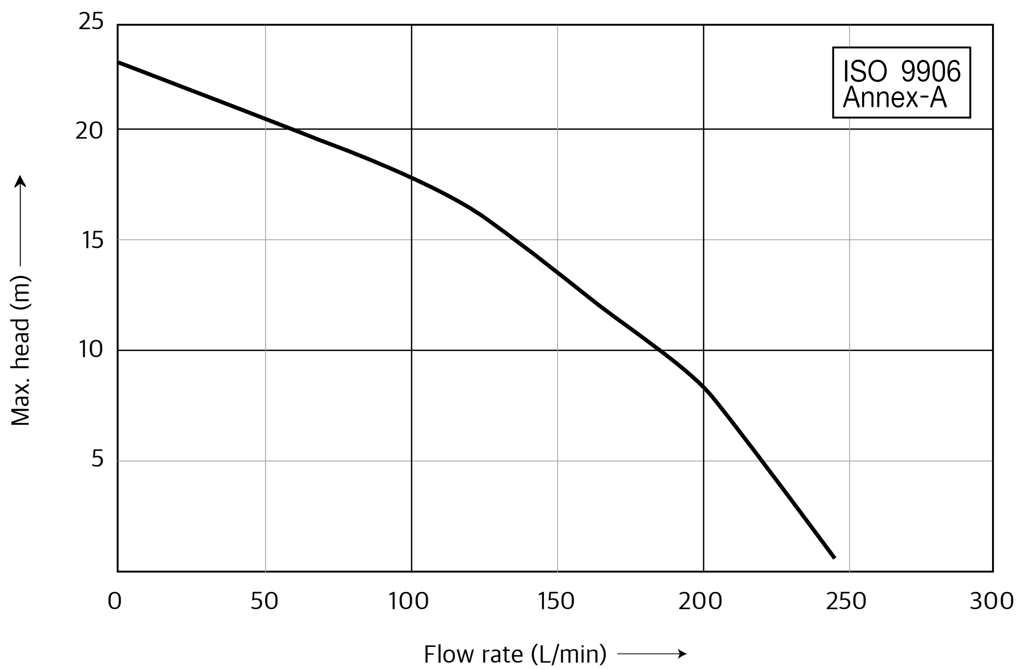


FEATURE

HIGH LIFT TYPE FOR SPRINKLER

- Automatic when using pressure tank PP-850 (Optional)

PERFORMANCE CURVE



SPECIFICATION

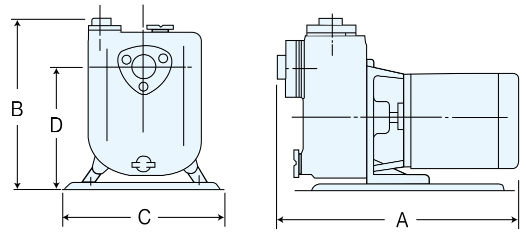
Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-950	Single phase 220	1	1,170	23	14,400(0.5)	5	18	50	31	395×346×270×265

PA

PA-1688SS
Self-priming type

Adopted impeller

Adopted friction plate

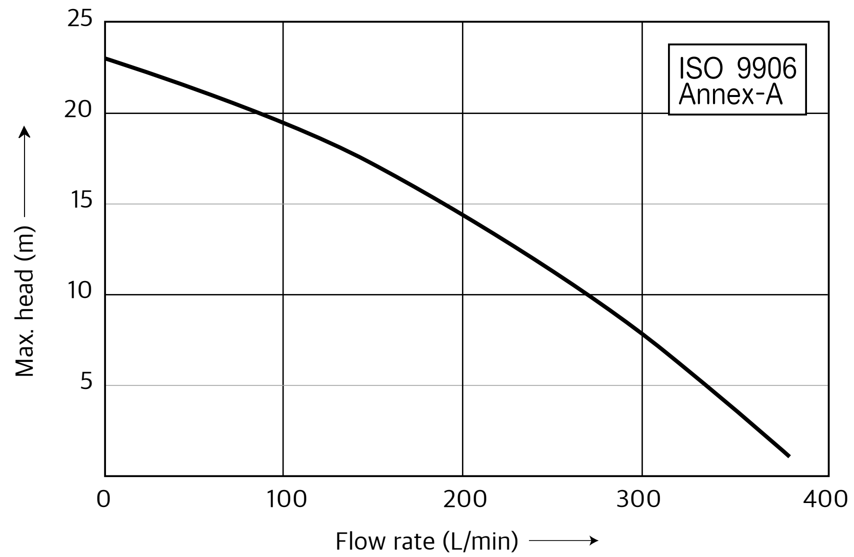


FEATURE

LARGE FLOW RATE TYPE

- SS type : Stainless steel impeller/friction plate (STS-304)
- For seawater and weak acid

PERFORMANCE CURVE



SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-1688	Single phase 220	2	1,780	22	22,240(0.5)	8	14	50	37	423×360×270×270
PA-1688SS										
PA-1688-T	Three phase 220/380									
PA-1688SS-T										
PA-1688-4T	Three phase 440									

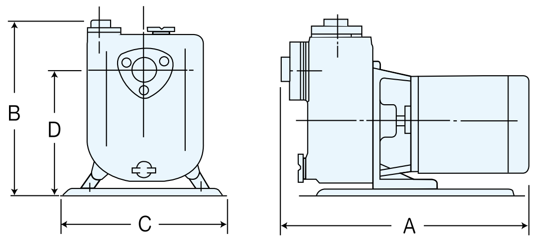
Adopted impeller

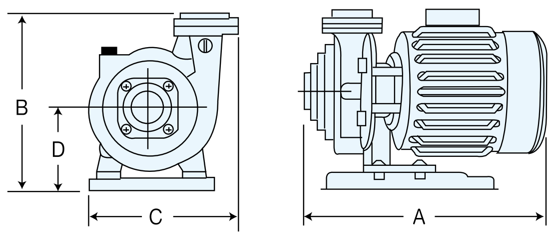
PA-2288SS(-T)

Self-priming & large flow rate type

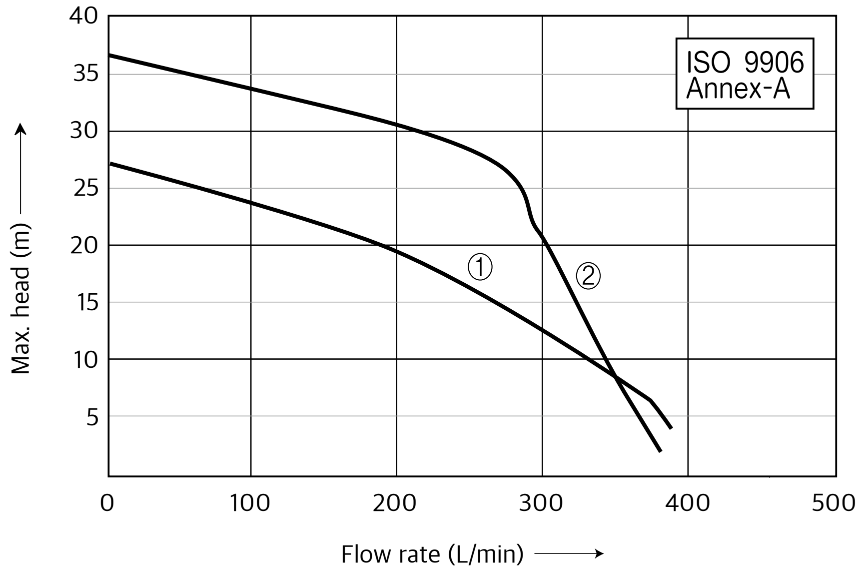
PA-4000SS(-T)

Non-self priming & high lift type





PERFORMANCE CURVE



① PA-2288SS-T ② PA-4000SS-T

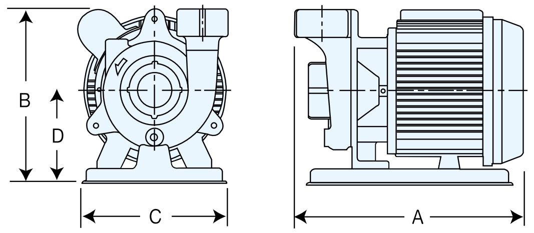
SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
①	PA-2288SS-T	Three phase 220/380	4	2,800	25	24,000(0.5)	8	17	50	52	350×382×270×310
②	PA-4000SS-T		5	3,120	35	24,720(0.5)	0	35	80	70	500×384×355×180

※ Enable to use for suction when installing check valve(from market) at the bottom of suction pipe

PA-1681

Non-self priming & Non-automatic type

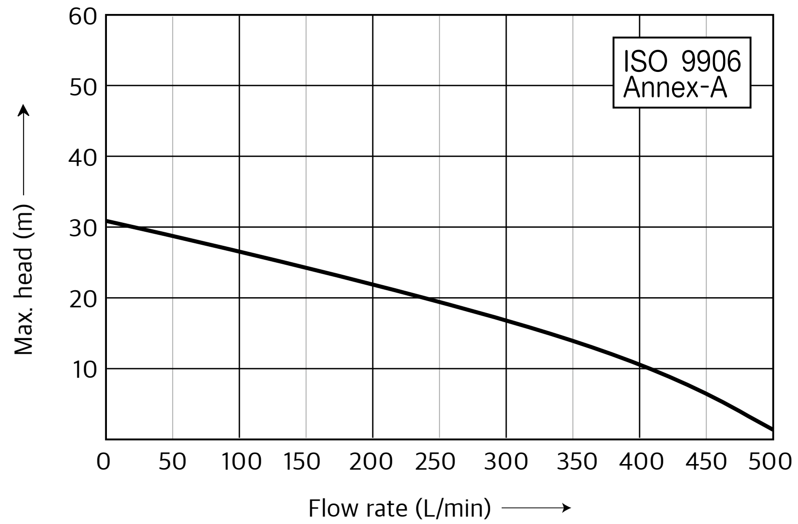


FEATURE

Suitable for
MACHINE EQUIPMENT, COOLING CIRCULATION AND BOOSTING with large capacity

- For machine cooling circulation
- For attachment to machine
- For refrigerating machine equipment of large flow rate

PERFORMANCE CURVE

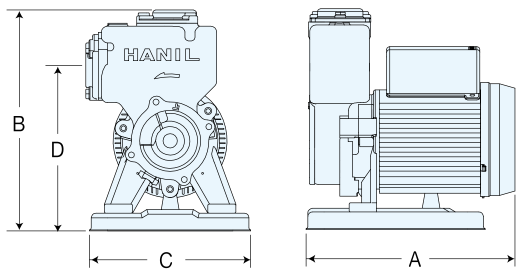


SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-1681	None : Single phase 220 T : Three phase 220/380	2	1,780	21	24,000(0.5)	0	21	50	29	360×280×270×157
PA-1681-T										
PASS-1681SS										
PASS-1681SS-T										

PH

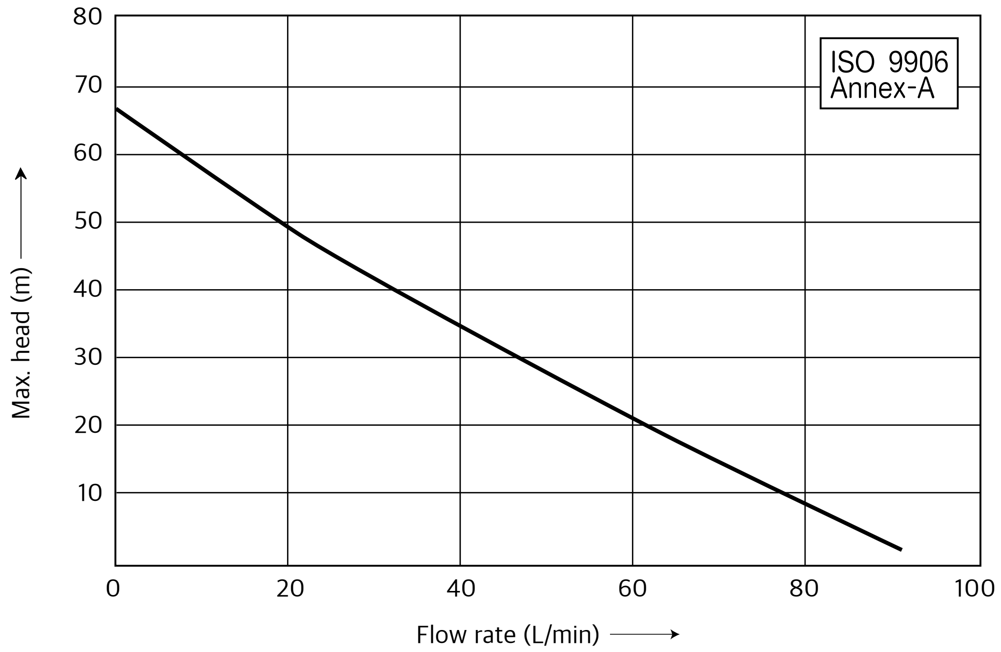
PH-1588W
Non-self priming pump



FEATURE

HIGH LIFT TYPE

PERFORMANCE CURVE



SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PH-1588W PH-1588W-T PH-1588W-4T	None : Single phase 220 T : Three phase 220/380 4 : Three phase 440	2	1,780	44	5,600(0.5)	8	36	40	30.5	372×348×270×290

Self Priming Seawater Pumps

- ◇ Enable to use at fish farm, sushi restaurant, housing near seaside and aquarium
- ◇ Extended life span of durable casing against seawater
- ◇ Improved safety with totally-enclosed motor frame(Aluminum alloy)

SELF PRIMING SEAWATER PUMPS

PA

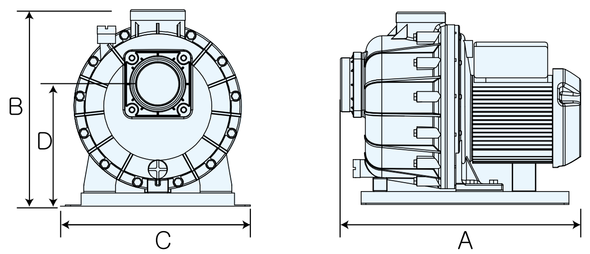
Model selection guide

P	PUMP
A	AGRICULTURE
3000	PUMP MODEL
(-U)	GUIDE VANE GC200
S	STAINLESS
S	STEEL
NONE -T	SINGLE PHASE 220V THREE PHASE 220/380V

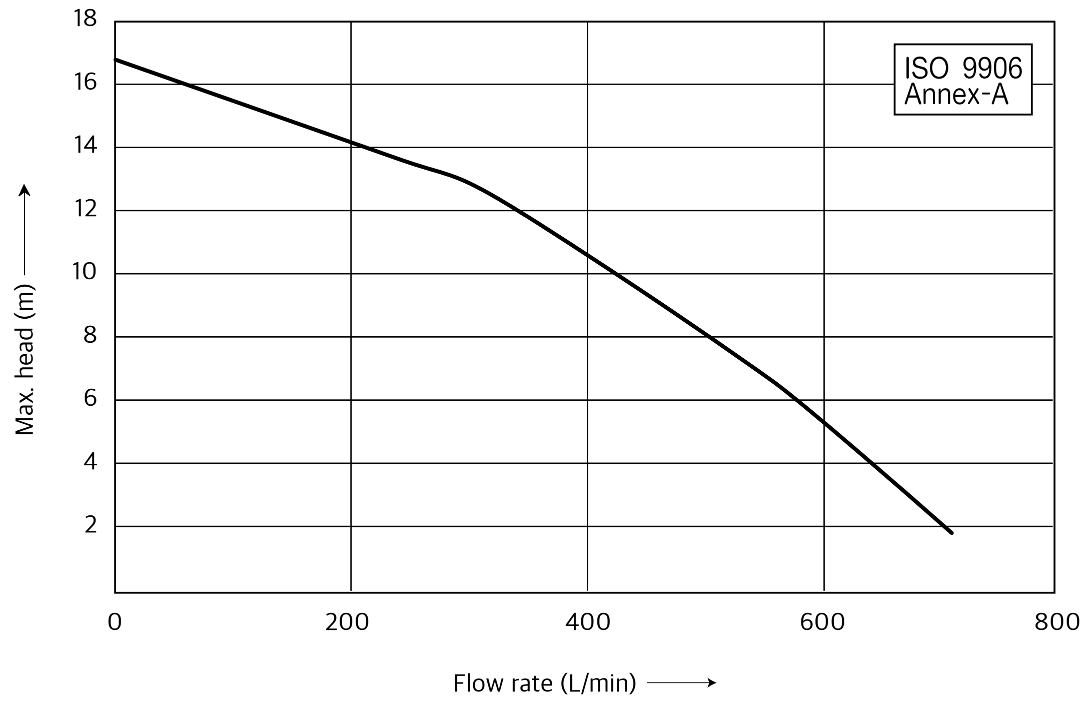
PA-3000SS(-T)

PA-3005SS(-T)

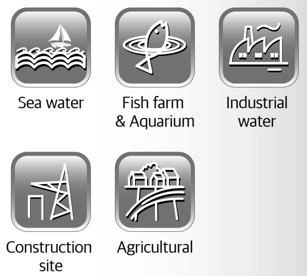
34.5



PERFORMANCE CURVE



APPLICATION



FEATURE

LARGE FLOW RATE(1.03 TON) PPS SEAWATER PUMP

- Agricultural & Industrial at green house and floricultural pot
- Durable against seawater with impeller(SSC13)
- Engineering plastic PPS on water contacgt surface
- Potable using lifting handle
- Large flow rate(1 ton) with pipe diameter(3 inch)-(Hanil: 1,035L/min)
- Light weight
- IP grade-IPX4 Insultation level-B type(Single phase)/F type(3T)
- Enable to pumping fluid including solid material with guide vane GC200

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-3000SS PA-3000SS(-T,-4T) PA-3005SS(-T,-4T)	None : Single phase 220 T : Three phase 220/380 4T : Three phase 440	3	1,800	18	50,400(0.5)	9	9	50	34.5	510×370×350×230
PASS-3000SS PASS-3000SS(-T,-4T) PASS-3005SS(-T,-4T)		3	1,800	18	50,400(0.5)	9	9	50	34.5	510×370×350×230

SELF PRIMING SEAWATER PUMPS

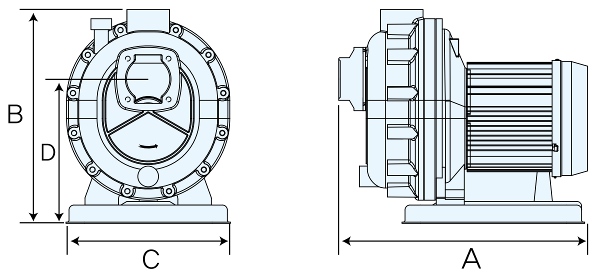
PA

Model selection guide

P	PUMP
A	AGRICULTURE
1000	PUMP MODEL
(-U)	GUIDE VANE GC200
S	STAINLESS
S	STEEL
NONE -T	SINGLE PHASE 220V THREE PHASE 220/380V

PA-1000SS(-T)

PA-1005SS(-T)



APPLICATION

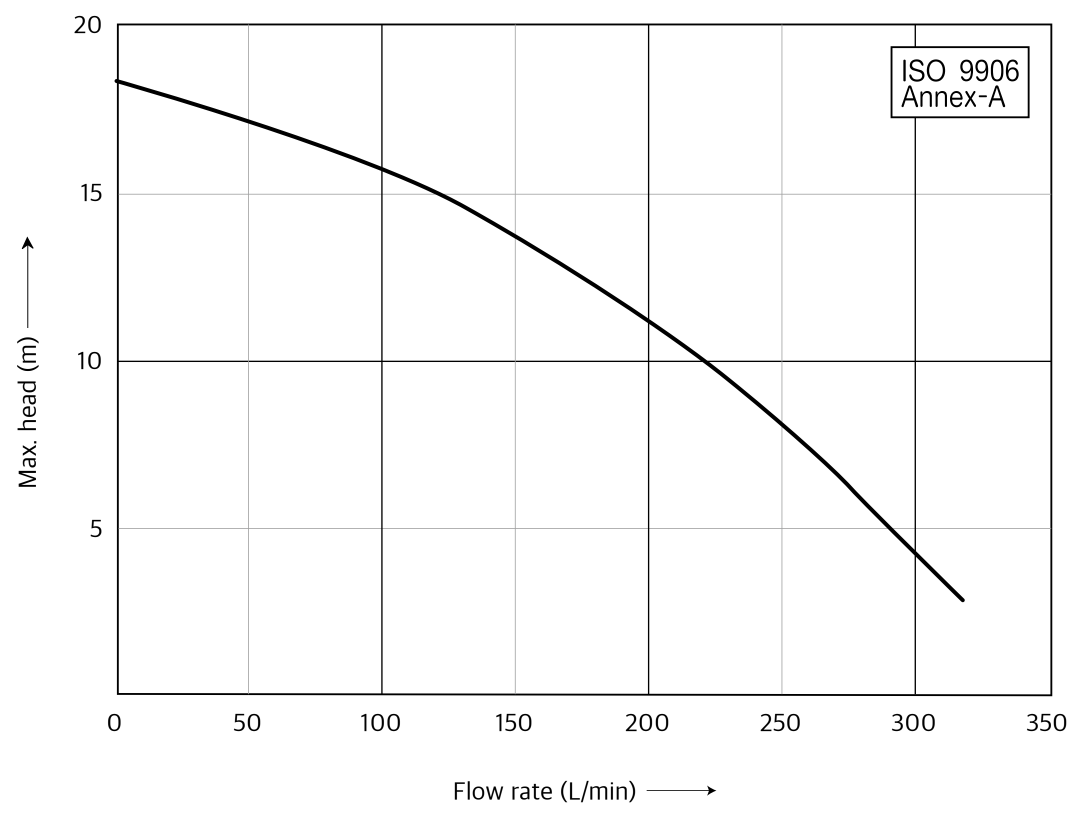
Sea water
Fish farm & Aquarium
Industrial water
Construction site
Agricultural

FEATURE

SEAWATER SELF PRIMING UP TO 9 METER

- Durable against seawater with impeller(SSC13)
- Guide vane made of engineering plastic PPS
- Specialized for long distance transferring sea water
- Motor shaft STS-316/Potable using lifting handle
- IP grade-IPX4 Insultation level-B type(Single phase)/F type(3T)

PERFORMANCE CURVE



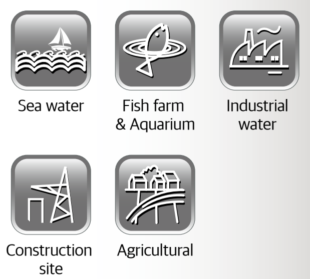
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-1000SS	None : Single phase 220 T : Three phase 220/380	1.2	1,060	18	19,000(0.5)	9	9	50	27.5	408×351×370×237
PA-1000SS-T										
PA-1005SS		1.2	1,060	18	19,000(0.5)	9	9	50	27.5	408×351×370×237
PA-1005SS-T										

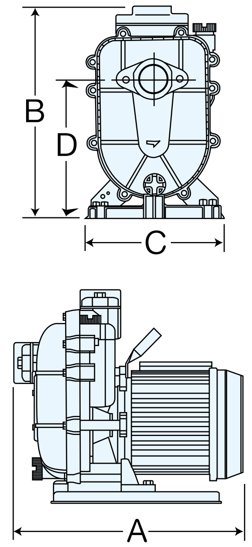
Model selection guide

P	PUMP
A	AGRICULTURE
280S	PUMP MODEL

APPLICATION



PA-280S



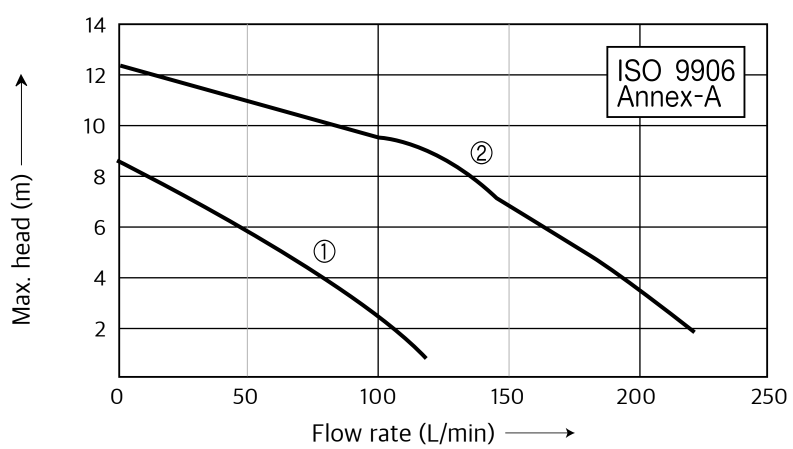
FEATURE

IMPROVED SEAWATER RESISTANCE

with stainless steel

- Improved seawater resistance with shaft and friction plate (Stainless steel STS-316)
- For Agriculture & Seawater

PERFORMANCE CURVE

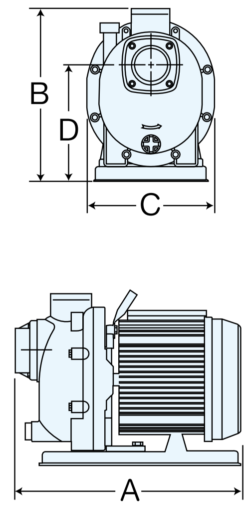


① PA-280S ② PA-600S

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension (mm) A×B×C×D
① PA-280S	Single phase 220	1/3	400	7	7,200(0.5)	4	3	32	9.5	295×280×170×190
② PA-600S		4/5	600	11	14,000(0.5)	8	3	40	11.5	330×315×210×205

PA-770S

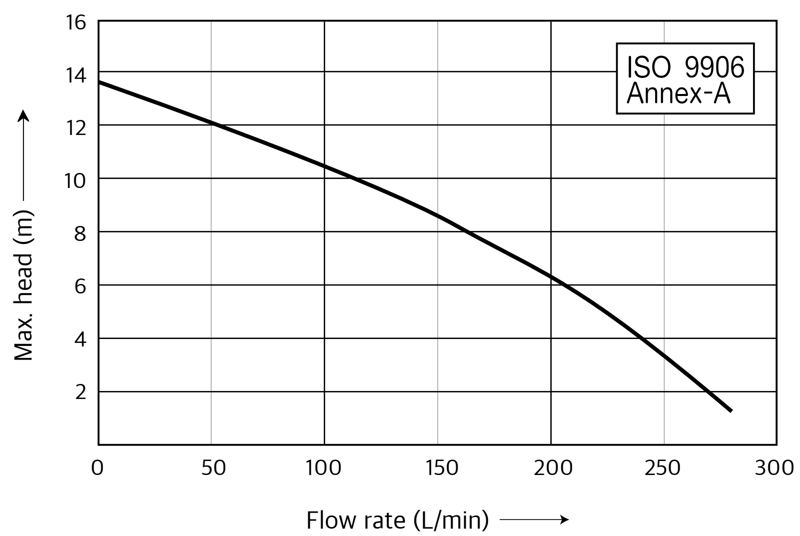


FEATURE

ENGINEERING PLASTIC MATERIAL(PPS)

- For Agriculture & Seawater
- For weak acid

PERFORMANCE CURVE

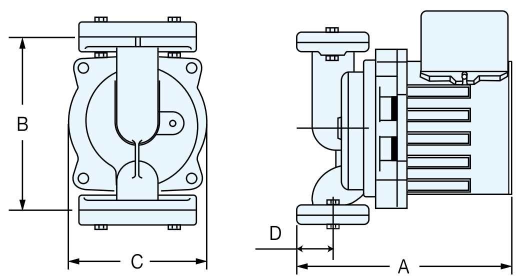


SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PA-770S	Single phase 220	1	1,050	13	17,600(0.5)	7	6	50	19	395×302×230×207

Holder(Casting)

PB-31 / PB-51(-1)/PB-53(-1C) / PB-81 / PB-38 / PB-43-1 / PB-88



Model selection guide

P	PUMP
B	BOILER
31	PUMP MODEL
(E)	MATERIAL : ENGINEERING PLASTIC
-1/-1C	PIPE : 25/32(A)

APPLICATION

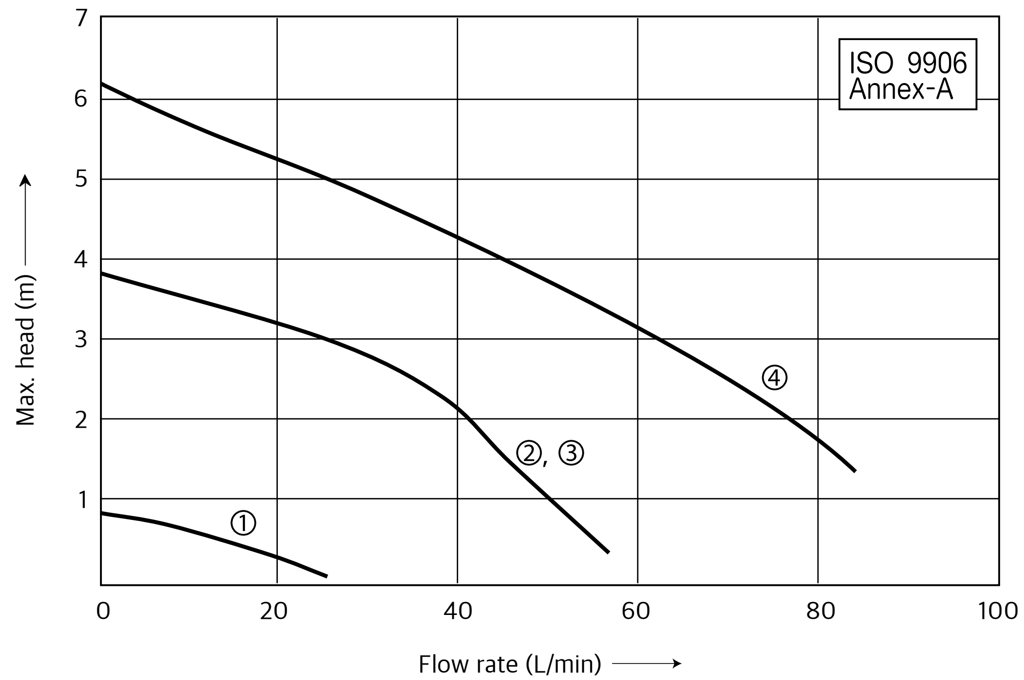
Home
Villa, Row houses
Cool & Warm water cooling circulation
Pressurizing hot water supply

FEATURE

IMPROVED DURABILITY

- Compact design for low noise, trouble free
- Simple installation & use with compact size
- Excellent water pressure and performance by special design
- Excellent water resistance with mechanical seal
- Damage prevention by built-in motor protective device [except PB-31,38(E)]

PERFORMANCE CURVE

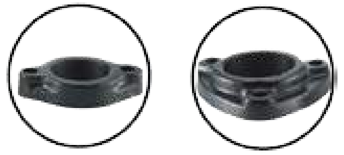


① PB-31 ② PB-43 ③ PB-51 ④ PB-81

SPECIFICATION

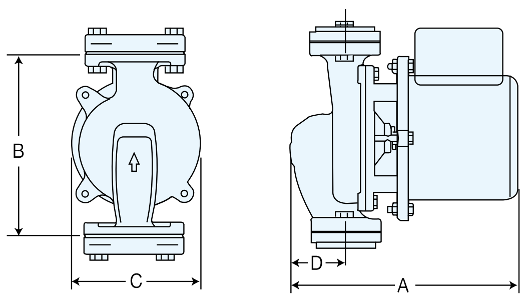
	Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
①	PB-31	Single phase 220	1/110	32	0.8	1,056(0.2)	0	0.8	25	3.7	156.5×120×97×25
	PB-38									3.2	151.5×120×97×25
	PB-31E									2.5	154×120×97×25
②	PB-43-1		1/18	75	3	3,450(0.2)		3		3.8	154×150×101×35
	PB-43-1C									3.9	154×150×101×35
	PB-43E-1									3.1	154×150×101×35
	PB-43E-1C									3.1	154×150×101×35
③	PB-51-1		1/18		3	3,450(0.2)		3		4.3	159×150×101×35
	PB-53-1C									4.3	159×150×101×35
④	PB-81		1/9	120	6	5,360(0.2)		6		5.5	180×180×110×33
	PB-88									5.2	175×180×110×33

※ Do not use for drinking water



PB-130 PB-210

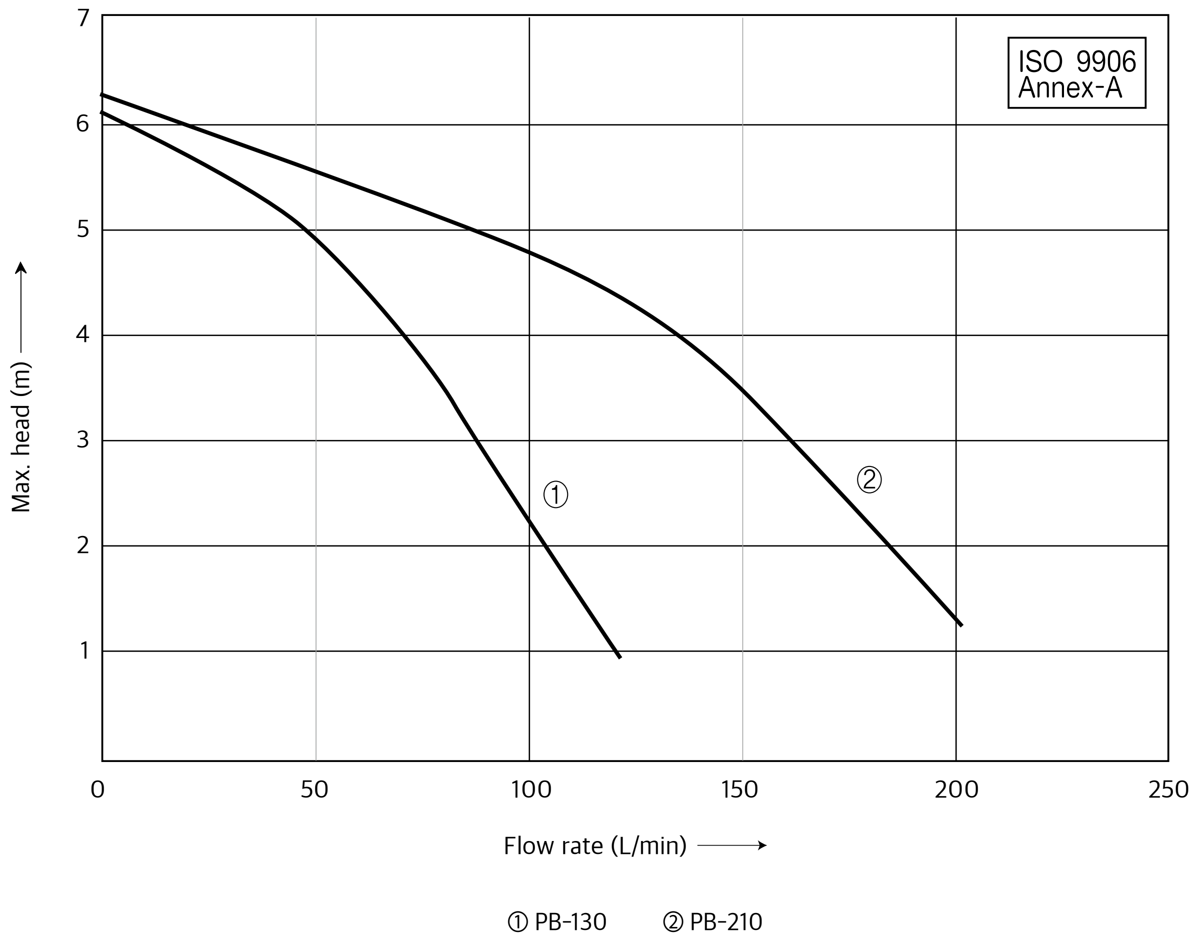
PB-130



Model selection guide

P	PUMP
B	BOILER
130	PUMP MODEL

PERFORMANCE CURVE



APPLICATION

Home
Villa, Row houses
Cool & Warm water cooling circulation

FEATURE

IMPROVED DURABILITY

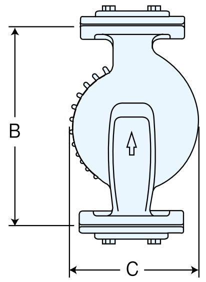
- Compact design for low noise, trouble free
- Simple installation & use with compact size
- Excellent water pressure and performance by special design
- Excellent water resistance with mechanical seal

SPECIFICATION

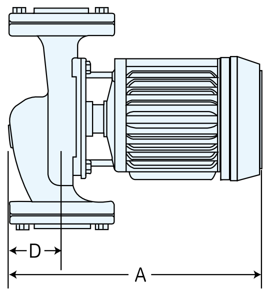
Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
① PB-130	Single phase 220	1/6	210	6	7,200(0.3)	0	6	40	8.6	213×210×133×45
② PB-210		1/4	280		13,920(0.3)			50	11.3	230×250×140×64

※ Do not use for drinking water

PB-400(-2B)



PB-900



Model selection guide

P	PUMP
B	BOILER
400	PUMP MODEL
(E)	MATERIAL : ENGINEERING PLASTIC
2B/3	PIPE : 65/80(A)

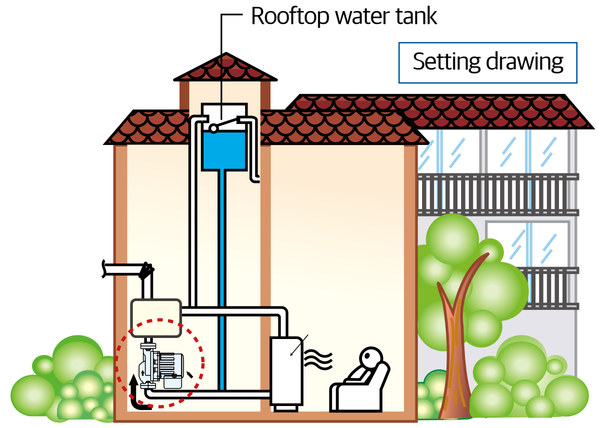
APPLICATION

FEATURE

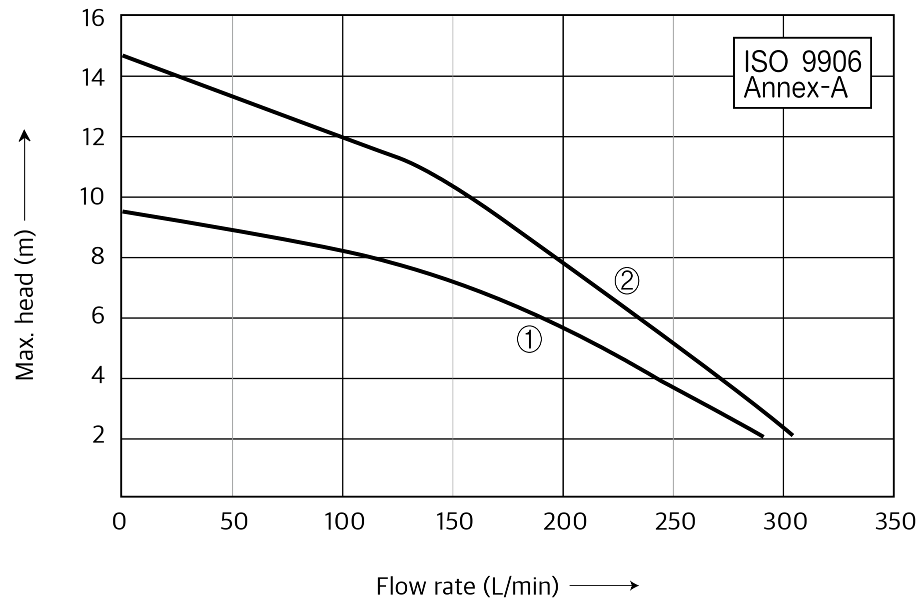
TOTALLY-ENCLOSED MOTOR FRAME(ALUMINUM)

- Compact design for low noise, trouble free
- Simple installation & easy to use with compact size
- Excellent water pressure and efficiency by special design
- Excellent water resistance by adopting mechanical seal
- Damage prevention by built-in motor protective device

SETTING DRAWING



PERFORMANCE CURVE



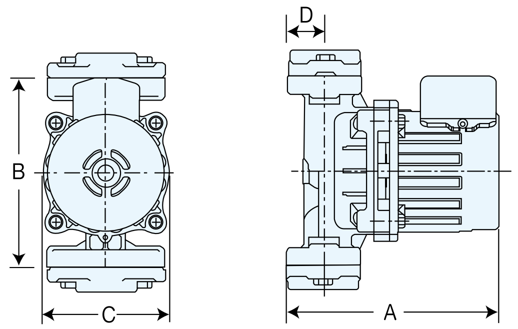
① PB-400-2B ② PB-900

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
①	PB-400-2B	None : Single phase 220 T : Three phase 220/380	1/2	420	8	18,960(0.3)	0	8	65	18.6	314×280×170×84
	PB-400-3								80		
②	PB-900		1	900	13	19,760(0.3)	0	13	50	28.2	352×280×198×86
	PB-900-T			850							

※ Do not use for drinking water

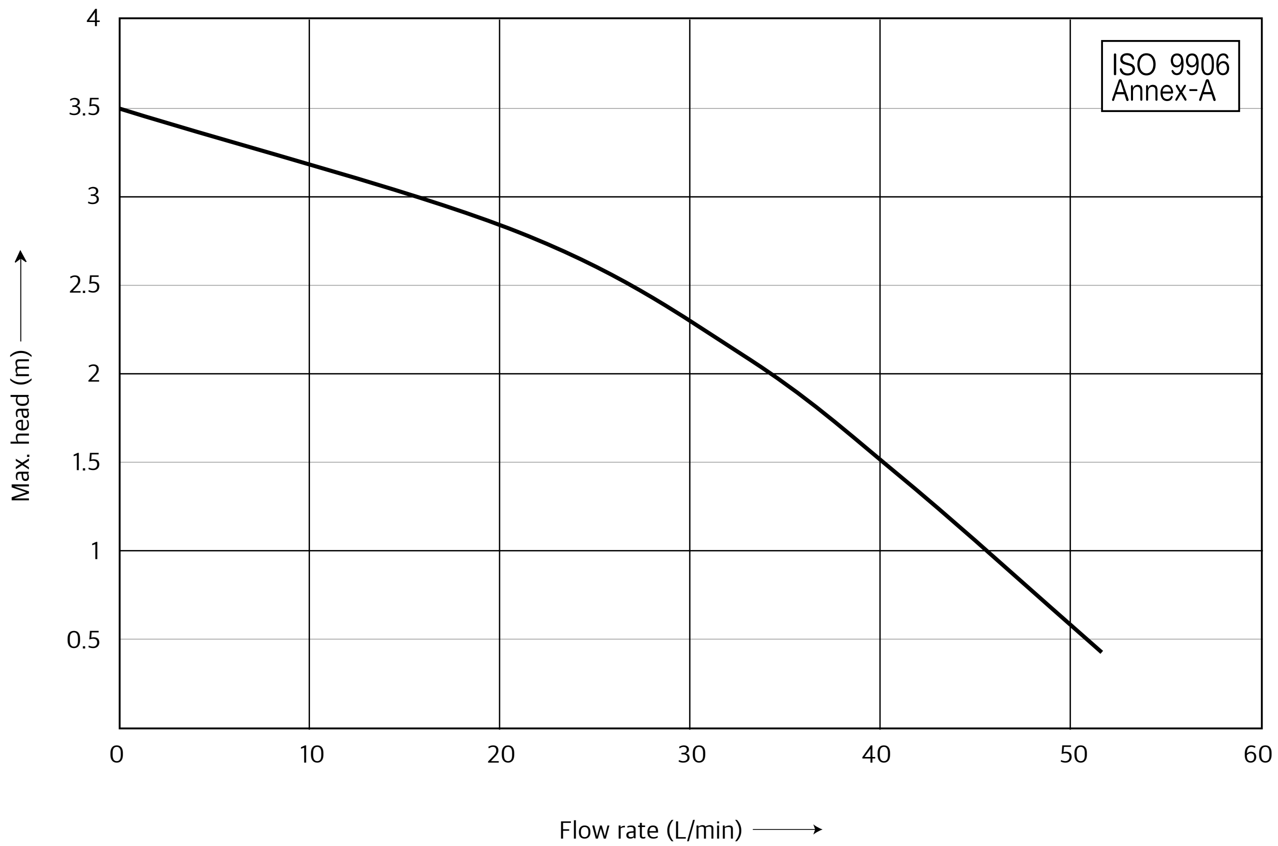
PBS-43EP-1



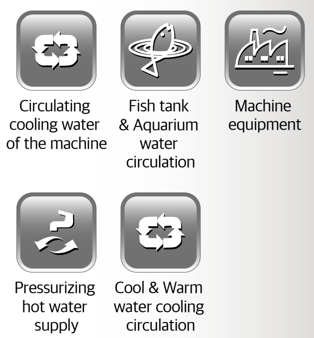
Model selection guide

P	PUMP
B	BOILER
S	CASING PPS
43E-1	PUMP MODEL
P	HOLDER PPS

PERFORMANCE CURVE



APPLICATION



FEATURE

Rust-proof with corrosion resistance material

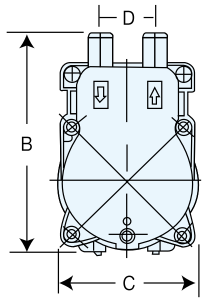
- Multi purpose circulating for fish tank and aquarium
- For the boiler clean water supply
- High efficiency, compact&lightweight size
- Holder, Casing : PPS

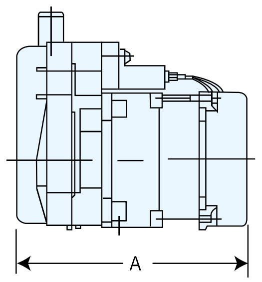
SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C×D
PBS-43EP-1	Single phase 220	1/18	65	4	3,280(0.3)	0	4	25	3	167×150×101×29

※ Do not use for drinking water

PA-35





PA-75

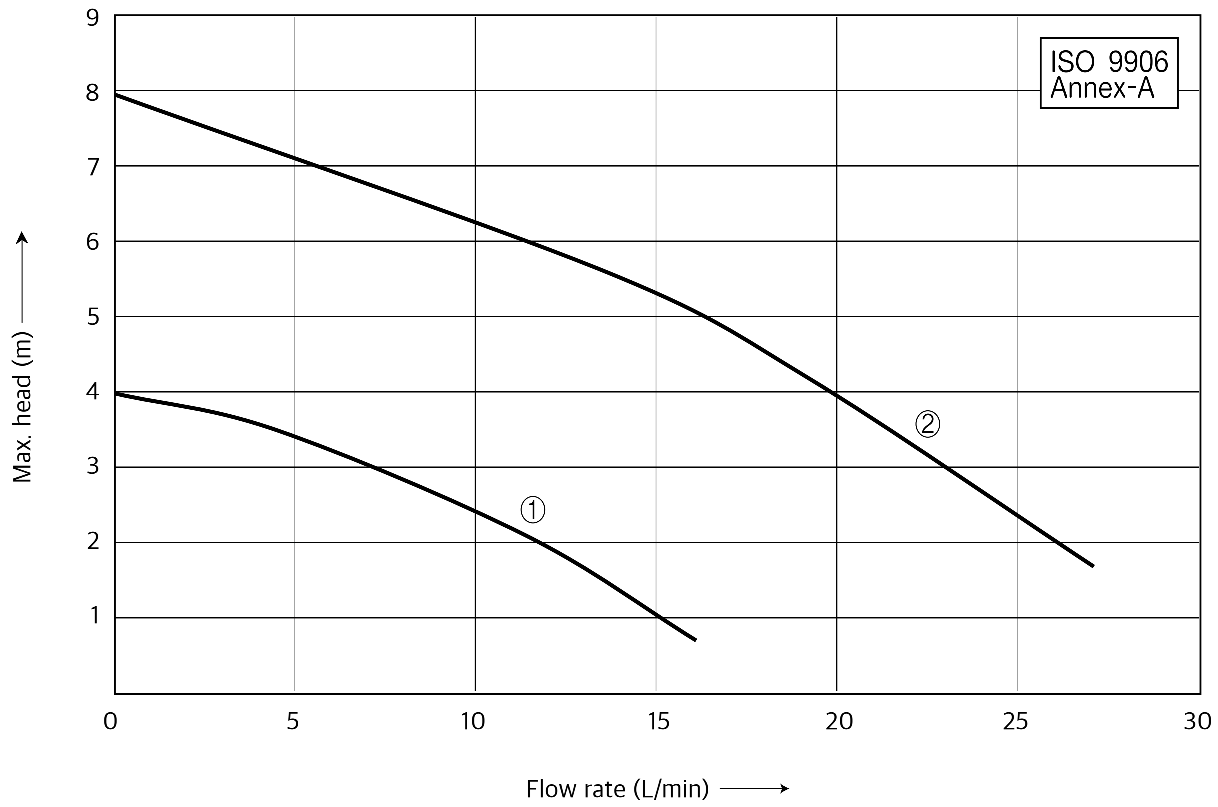
Self priming & Non-automatic type

FEATURE

LOW NOISE, HIGH EFFICIENCY, SELF-PRIMING CIRCULATING

- Stainless steel & Engineering plastic material
- Totally-enclosed motor frame(High strength aluminum)
- For the clean water supply boiler and vending machine

PERFORMANCE CURVE

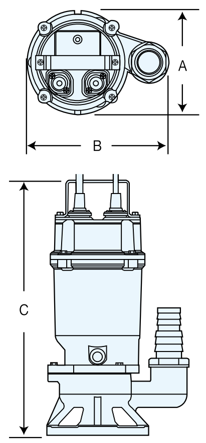


① PA-35 ② PA-75

SPECIFICATION

Model	Voltage (V.AC)	Output (HP)	Input (W)	Max. head (m)	Rated flow rate(L/h) at Ht(m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) AxBxCxD
① PA-35	Single phase 220	1/25	50	4	960(0.3)	1	3	Ø16 hose	1.6	120×131×86×30
② PA-75		1/11	100	6	1,360(0.3)	2	4		2.5	154×152×94×36

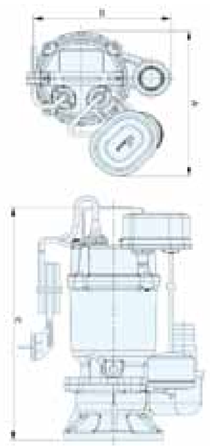
※ Do not use for drinking water



IPVSS-327SS(-F)(HJ)

Model selection guide

I	IMMERSION
P	PUMP
V	VORTEX
S	STAINLESS
S	STEEL
327	PUMP MODEL



IPVSS-327SS-NFL(HJ)

APPLICATION

Water tank cleaning
Sauna
Aquarium drainage
Simple sewage equipment
Civil engineering work
Building sewage
For industrial drainage

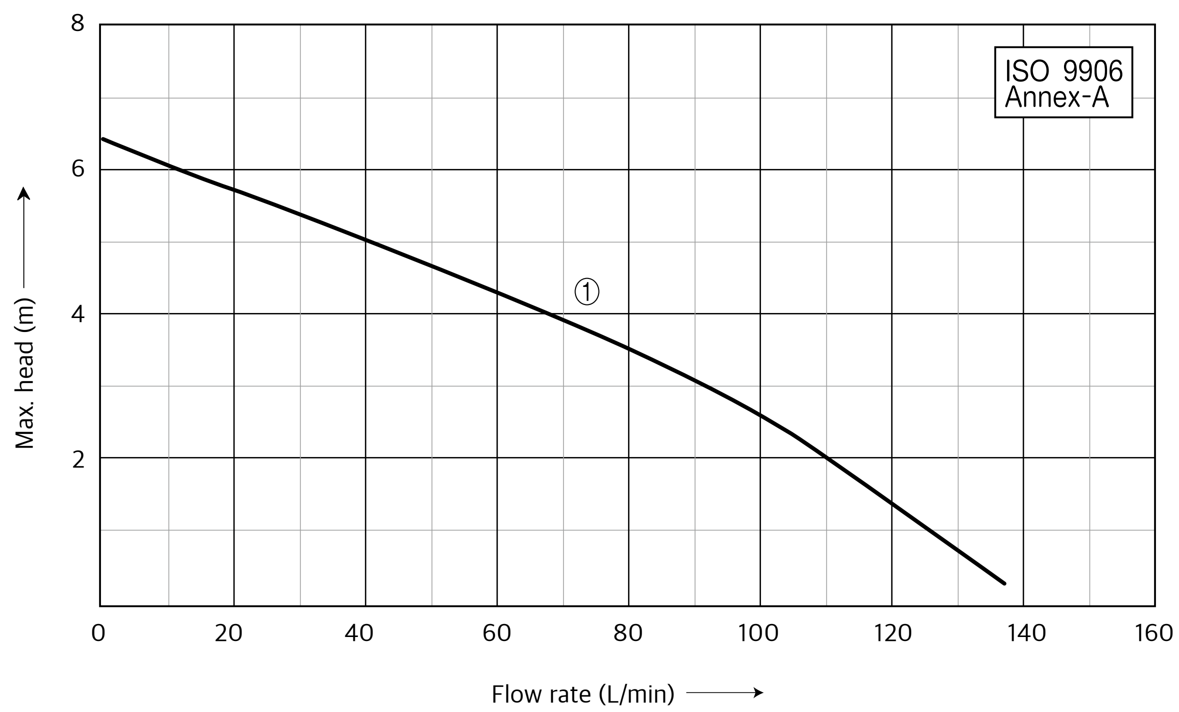
FEATURE

EXCELLENT CORROSION RESISTANCE

by stainless steel SSC14

- Waterproof for power cable and float swich cable by special molding structure
- Improved waterproof ability with UV coating
- Automatic operation by float switch(-F model)
- Save up installation space with vertical level switch(-FL model)
- Useable in PH 5.8~8.6

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IPVSS-327SS(HJ)	Single phase 220	1/3	6	8,200	0	6	32(A) Screw Ø32/38 hose	11.2	140×193×345
	IPVSS-327SS-F(HJ)								11.5	
	IPVSS-327SS-NFL(HJ)								11.5	190×193×345

※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch)
※ (HJ) type : not included joint of the hose

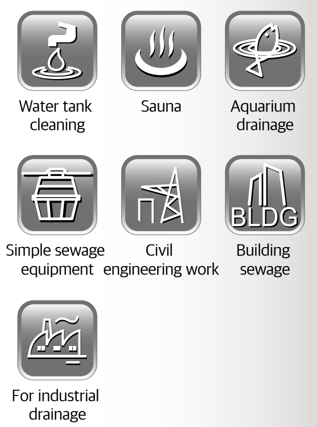
Made in Korea

IP(V)SS

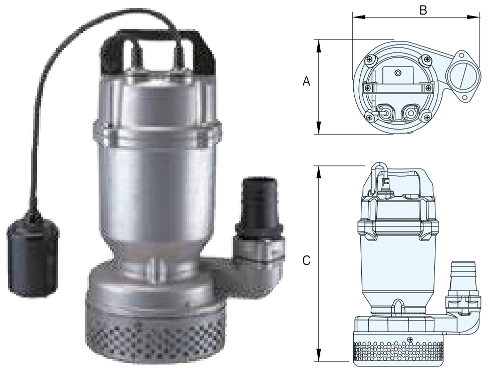
Model selection guide

I	IMMERSION
P	PUMP
(V)	VORTEX
S	STAINLESS
S	STEEL
415/815	PUMP MODEL

APPLICATION



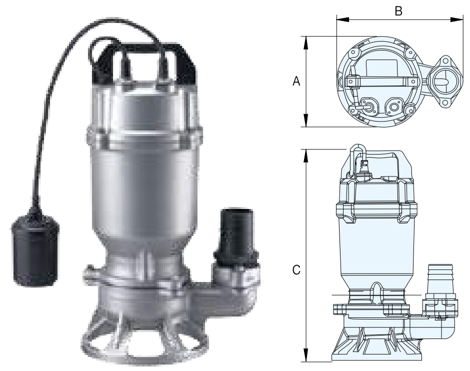
IP-TYPE



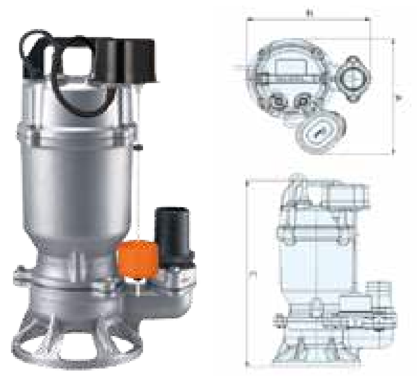
IPSS-415SS(-F)
IPSS-815SS(-F/-T)

IPSS-415SS-NFL
IPSS-815SS(-T)-NFL

IPV-TYPE



IPVSS-415SS(-F)(HJ)
IPVSS-815SS(-F/-T)(HJ)



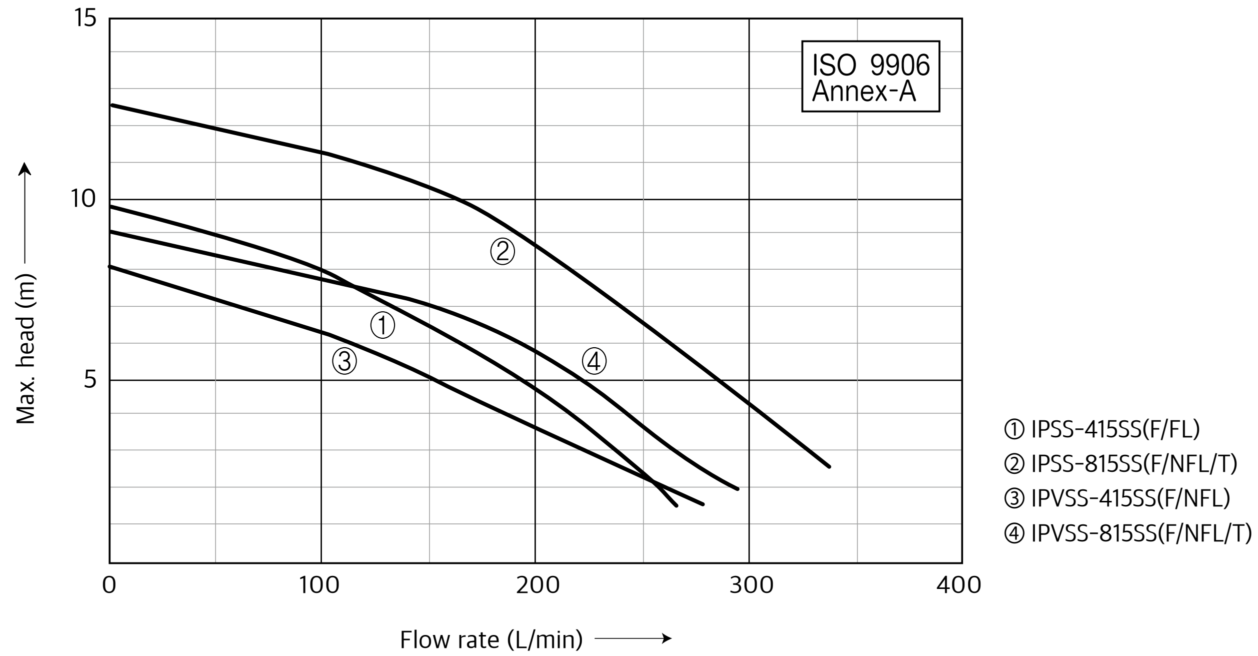
IPVSS-415SS-NFL(HJ)
IPVSS-815SS(-T)-NFL(HJ)

FEATURE

EXCELLENT CORROSION RESISTANCE
by stainless steel SSC14

- Waterproof for power cable and float swich cable by special molding structure
- Improved waterproof ability with UV coating
- Automatic operation by float switch(-F model)
- Save up installation space with vertical level switch(-FL model)
- Useable in PH 5.8~8.6

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IPSS-415SS	Single phase 220	1/2	9	15,300	0	9	50(A) Screw Ø50 hose	19.3	185×256×402
	IPSS-415SS-F								19.6	
	IPSS-415SS-NFL								19.6	263×256×402
②	IPSS-815SS		1	12	18,400		12		23.5	185×256×437
	IPSS-815SS-F								23.8	
	IPSS-815SS-NFL								23.8	263×256×437
	IPSS-815SS-T	Three phase 380							23.5	185×256×437
	IPSS-815SS-T-NFL								23.8	263×256×497
③	IPVSS-415SS(HJ)	Single phase 220	1/2	7	17,500		7		19.6	180×252×425
	IPVSS-415SS-F(HJ)								19.9	
	IPVSS-415SS-NFL(HJ)								19.9	258×252×425
④	IPVSS-815SS(HJ)		1	8.5	19,600		8.5		23.9	180×252×460
	IPVSS-815SS-F(HJ)								24.2	
	IPVSS-815SS-NFL(HJ)								24.2	258×252×460
	IPVSS-815SS-T(HJ)	Three phase 380							23.9	180×252×460
	IPVSS-815SS-T-NFL(HJ)								24.2	258×252×520

※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch), -T : three phases 380V
※ (HJ) type : Doesn't have joint of the hose
※ Option : Guide rail device HTO-50

Model selection guide

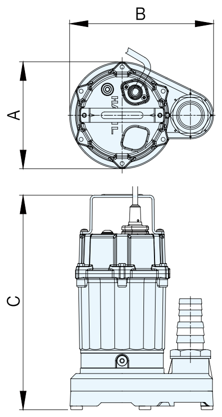
I	IMMERSION
P	PUMP
(V)	VORTEX
217	PUMP MODEL
NONE	NON-AUTOMATIC
F	AUTOMATIC(FLOAT SWITCH)
FL	AUTOMATIC(LEVEL SWITCH)

APPLICATION(IP)

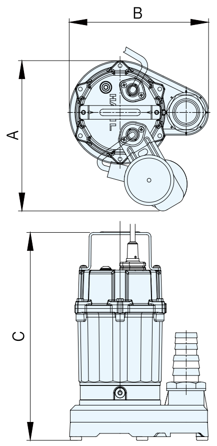
APPLICATION(IPV)

IP-217
IP-317
Standard type

IP-217-F
IP-317-F
Automatic type



IP-217-NFL
IP-317-NFL

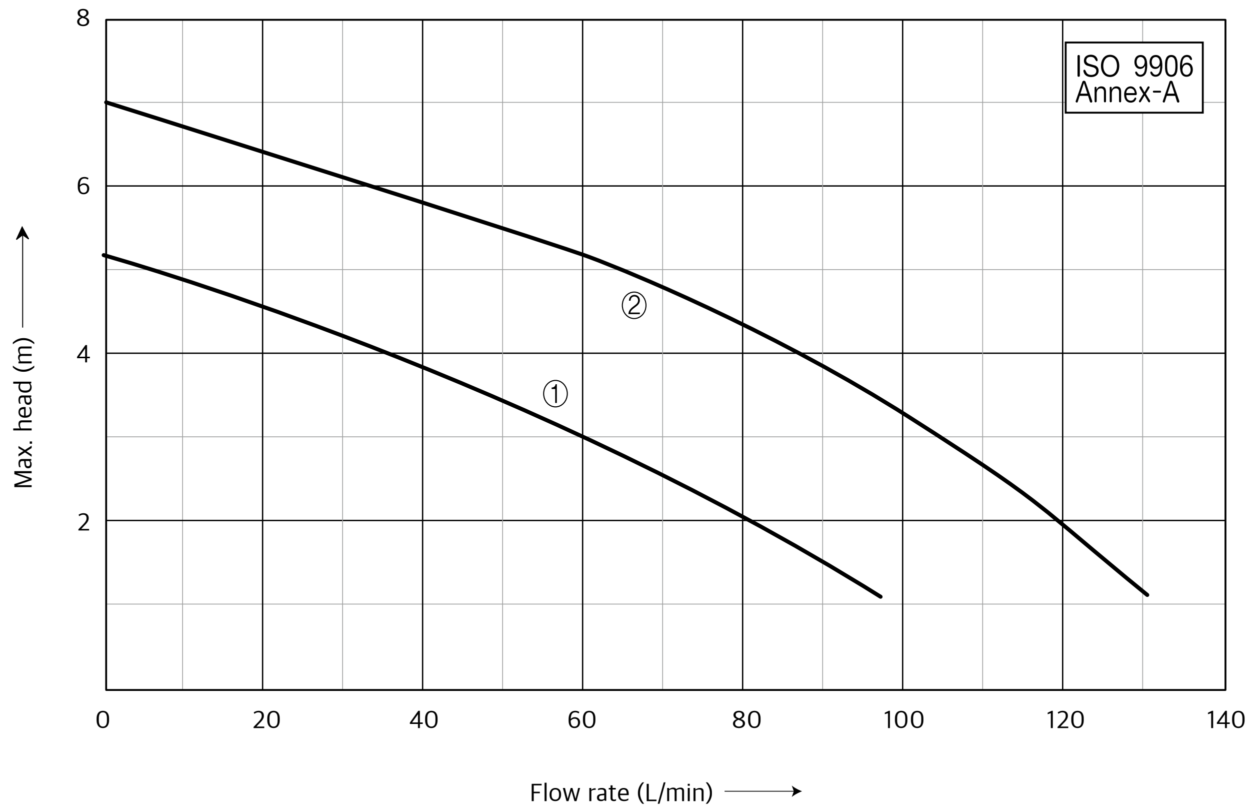


FEATURE

FOR GENERAL DRAINAGE, AQUARIUM, HOME

- NBR special molding structure with protective connection packiing of power cable & float switch cable

PERFORMANCE CURVE



① IP-217(-F/-NFL) ② IP-317(-F/-NFL)

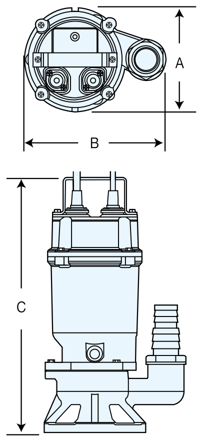
SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IP-217	Single phase 220	1/6	5	5,500	0	5	25(A) Screw Ø19/25 hose	4.8	189×142×274
	IP-217-F								5.1	
	IP-217-NFL								5.1	189×207×274
②	IP-317		1/3	6.5	8,100		6.5	32(A) Screw Ø32/38 hose	5.5	196×143×287
	IP-317-F								5.8	
	IP-317-NFL								5.8	196×208×287

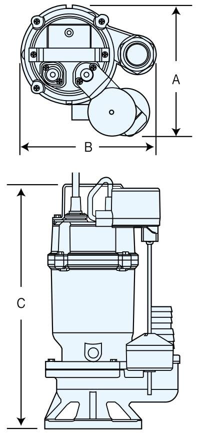
※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch)

IPV-327(HJ)

IPV-327-F(HJ)



IPV-327-NFL(HJ)

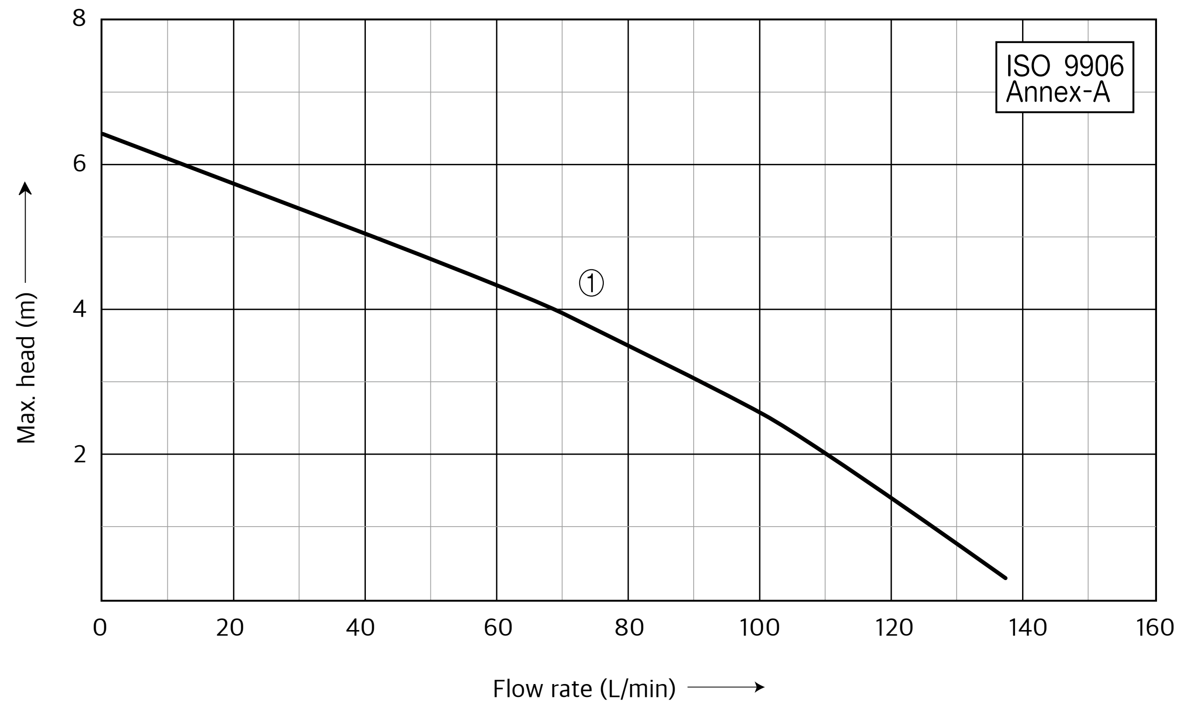


FEATURE

EXCELLENT WATER RESISTANCE

- Waterproof for power cable and float swich cable by special molding structure
- Improved waterproof ability with UV coating
- Automatic operation by float switch(-F model)
- Save up installation space with vertical level switch(-FL model)

PERFORMANCE CURVE

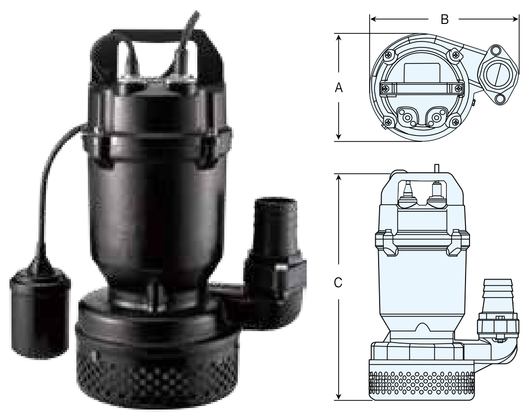


SPECIFICATION

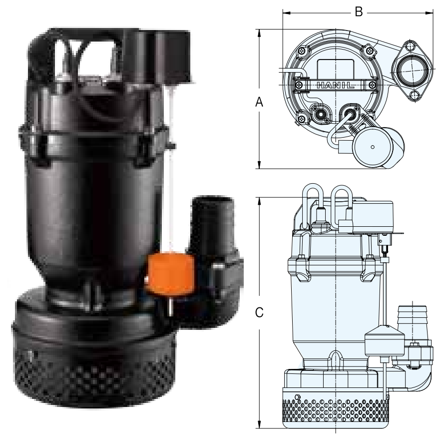
	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IPV-327(HJ)	Single phase 220	1/3	6	8,200	0	6	32(A) Screw Ø32/38 hose	10.5	140×193×345
	IPV-327-F(HJ)								11	
	IPV-327-NFL(HJ)								11	190×193×345

※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch)
※ (HJ) type : Doesn't have joint of the hose

IP-TYPE

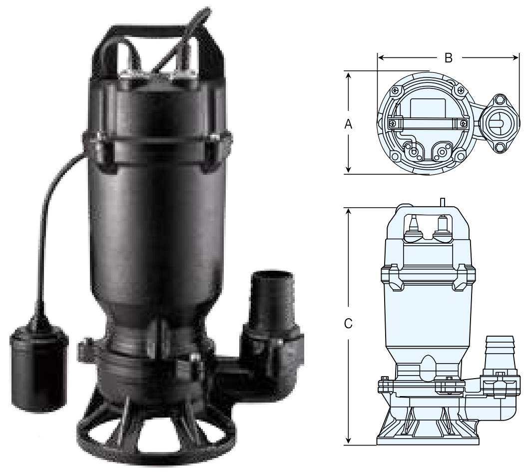


IP-415N(-F)
IP-815N(-F/-T)

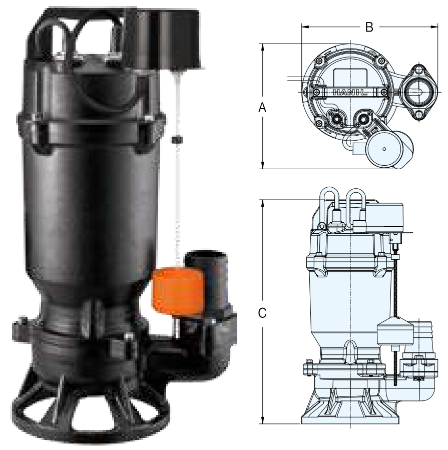


IP-415N-NFL
IP-815N-NFL

IPV-TYPE



IPV-415N(-F)(HJ)
IPV-815N(-F/-T)(HJ)



IPV-415N-NFL(HJ)
IPV-815N-NFL(HJ)

Guide rail device : **CL-50**

Model selection guide

I	IMMERSION
P	PUMP
(V)	VORTEX
415/815	PUMP MODEL
NONE	NON-AUTOMATIC
F	AUTOMATIC(FLOAT SWITCH)
FL	AUTOMATIC(LEVEL SWITCH)
T	THREE PHASE 380V

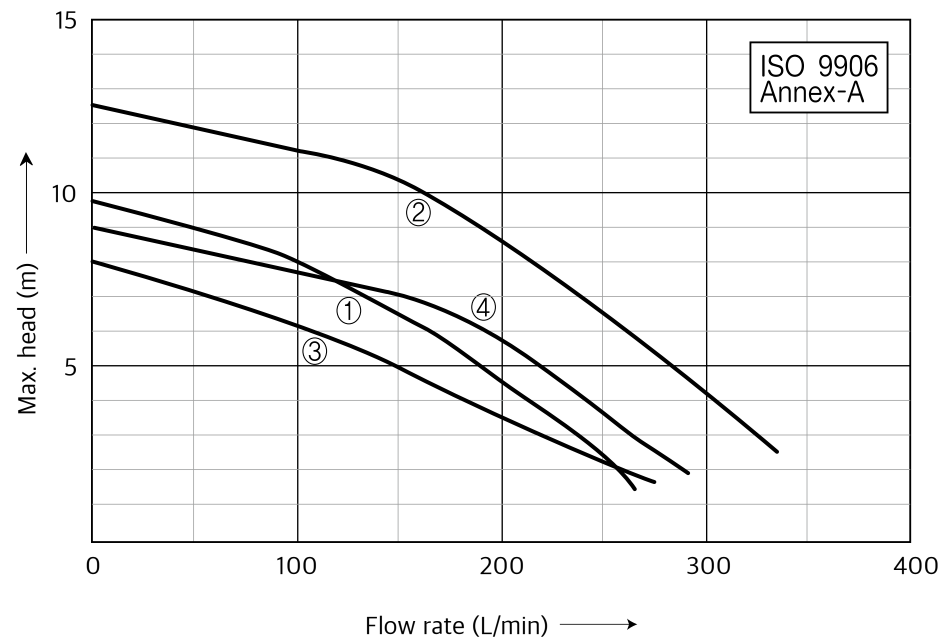
APPLICATION(IPV)

FEATURE

EXCELLENT WATER RESISTANCE

- Waterproof for power cable and float swich cable by special molding structure
- Improved waterproof ability with UV coating
- Automatic operation by float switch(-F model)
- Save up installation space with vertical level switch(-FL model)

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IP-415N	Single phase 220	1/2	9	15,200	0	9	50(A) Screw Ø50 hose	19.5	185×256×392
	IP-415N-F								19.8	
	IP-415N-NFL								19.8	237×256×392
②	IP-815N		1	12	18,400		12		23.9	185×256×437
	IP-815N-F								24.2	
	IP-815N-NFL								24.2	237×256×437
	IP-815N-T	Three phase 380							23.9	185×256×437
	IP-815N-T-NFL								24.2	258×252×497
③	IPV-415N(HJ)	Single phase 220	1/2	7	17,500	0	7		19.4	180×252×415
	IPV-415N-F(HJ)								19.7	
	IPV-415N-NFL(HJ)								19.7	232×252×415
④	IPV-815N(HJ)		1	8.5	19,600		8.5		23.4	180×252×460
	IPV-815N-F(HJ)								23.7	
	IPV-815N-NFL(HJ)								23.7	232×252×460
	IPV-815N-T(HJ)	Three phase 380							23.4	180×252×460
	IPV-815N-T-NFL(HJ)								23.7	258×252×520

※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch), -T : three phases 380V
※ (HJ) type : Doesn't have joint of the hose
※ Option : Guide rail device HTO-50

SUBMERSIBLE DRAINAGE PUMPS FOR CLEAN WATER & WASTE WATER

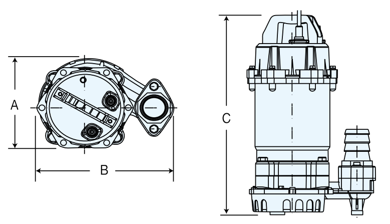
IP(V)

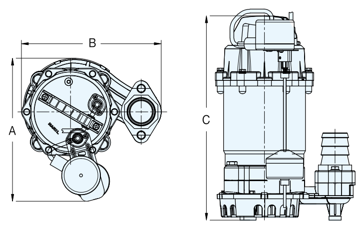
IP-TYPE

IP-417
For clean water

IP-417-F

IP-417-NFL



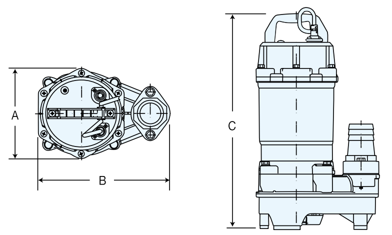


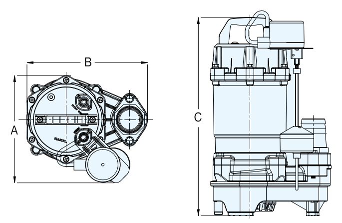
IPV-TYPE

IPV-417(HJ)

IPV-417-F(HJ)

IPV-417-NFL(HJ)





Model selection guide

I	IMMERSION
P	PUMP
(V)	VORTEX
417	PUMP MODEL
NONE	NON-AUTOMATIC
F	AUTOMATIC(FLOAT SWITCH)
FL	AUTOMATIC(LEVEL SWITCH)

APPLICATION

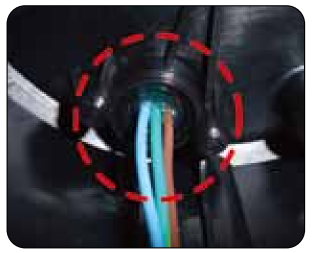
Building sewage · Livestock waste water · Septic tank drainage · For industrial drainage · Waste water treatment plant

FEATURE

Easy to move with light weight by adopting
ALUMINUM FRAME AND PPS(Engineering plastic)

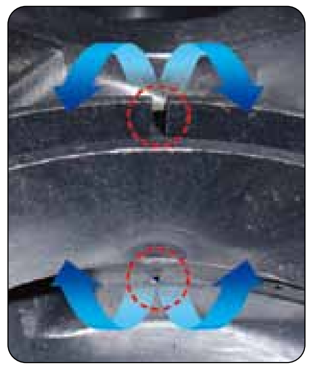
- Excellent waterproof
- Water resistance with UV coating on cable
- Excellent decay resistance with stainless steel shaft
- Easy to assemble
- Adopted vibration welding process to casing / Easy to maintain by simplifying parts
- Excellent dewatering at very low water level
- Automatically removing air
- Resolved water pumping disable with the structure that automatically flows water to inside of casing
- Strong locking device for power cable
- Prevented breaking of power cable with cable holder

Cable holder



UV Waterproof sealing

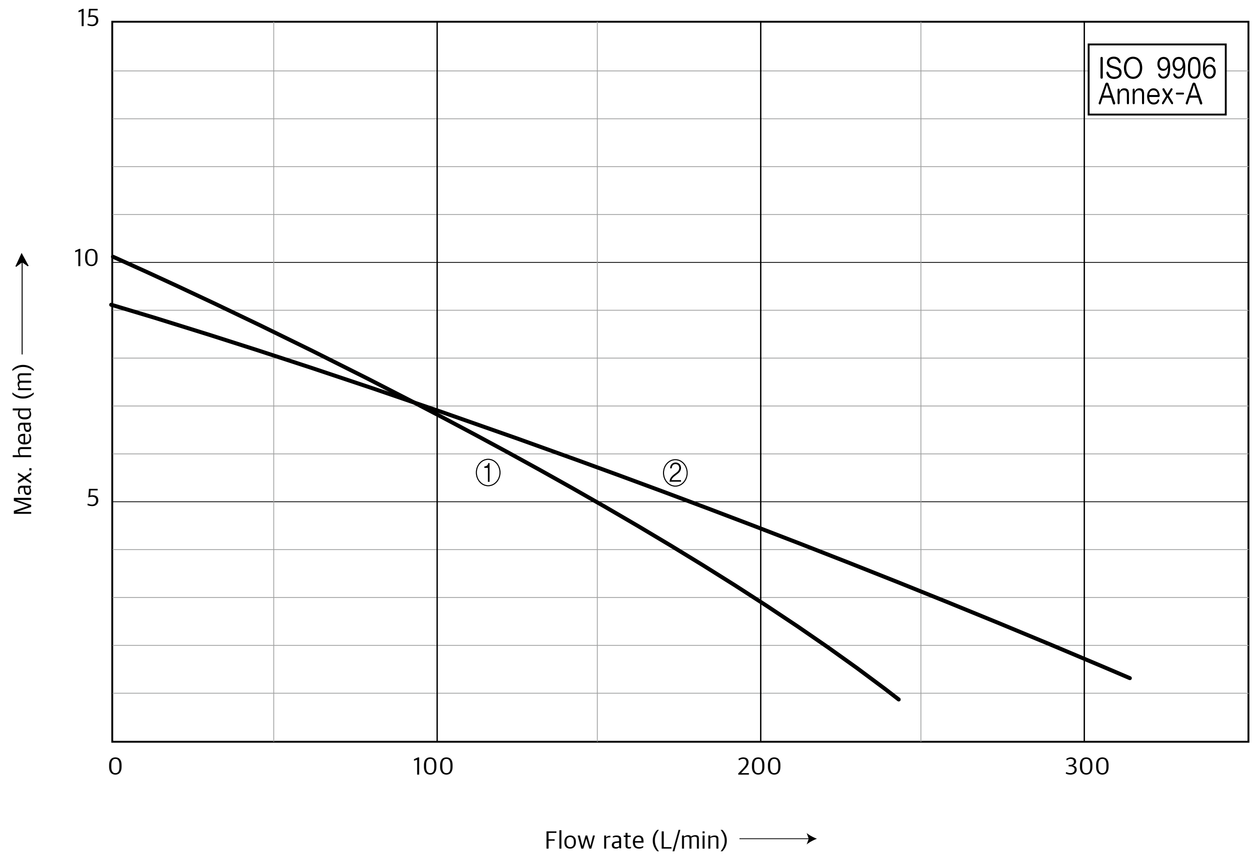
Vibration welding



Automatically removing air

IP(V)

PERFORMANCE CURVE



① IP-417(-F/-NFL) ② IP-417(-F/-NFL)

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IP-417	Single phase 220	1/2	9	15,200	0	9	50(A) Screw Ø50 hose	10	176×252×368
	IP-417-F								10.3	
	IP-417-NFL								10.3	257×252×368
②	IPV-417(HJ)		1/2	7	20,000	0	7		10.6	178×242×397
	IPV-417-F(HJ)								10.9	
	IPV-417-NFL(HJ)								10.9	215×242×397

※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch)
※ (HJ) type : Doesn't have joint of the hose

Submersible Drainage Pumps for clean water & waste water

IP-210 series

◇ Excellent dewatering at very low water level

◇ Aluminum frame, Engineering plastic material

IPS-225(-F)

◇ Durable against seawater with engineering plastic

IP-235 series

◇ Stainless steel and engineerig plastic material

SUBMERSIBLE DRAINAGE PUMPS FOR CLEAN WATER & WASTE WATER

IP/IPS

Model selection guide

I	IMMERSION
P	PUMP
210	PUMP MODEL
NONE	NON-AUTOMATIC
F	AUTOMATIC(FLOAT SWITCH)
FL	AUTOMATIC(LEVEL SWITCH)

APPLICATION(IP/IPS)

Water tank cleaning · Sauna · Aquarium drainage

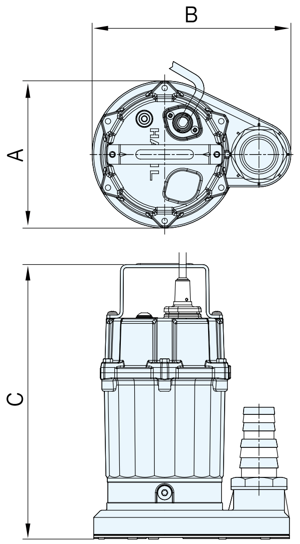
Simple sewage equipment

APPLICATION

Tunneling work · Civil engineering work · Building sewage

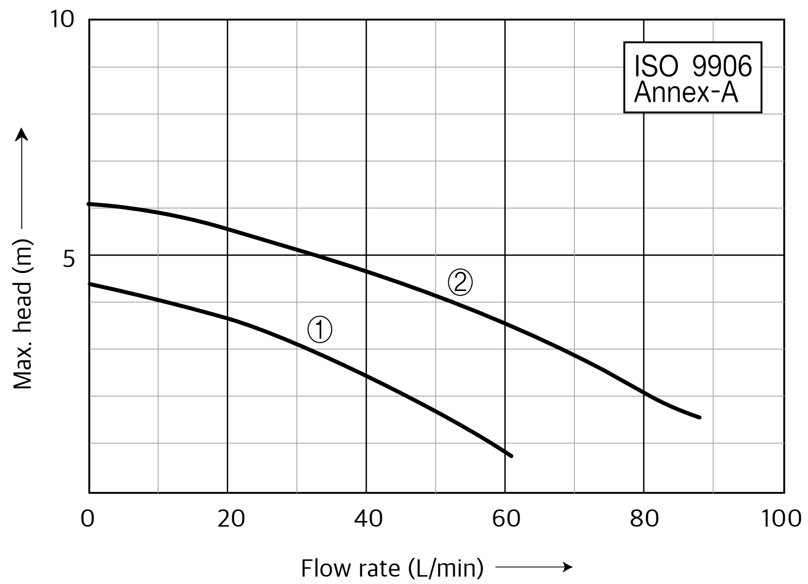
Livestock waste water · Septic tank drainage · For industrial drainage

Waste water treatment plant



IP-210, IP-310

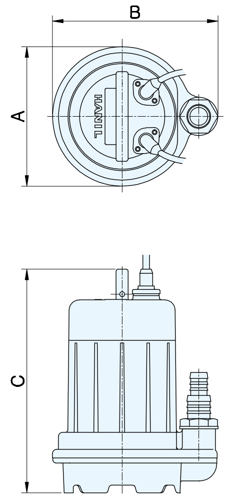
PERFORMANCE CURVE



① IP-210 ② IP-310

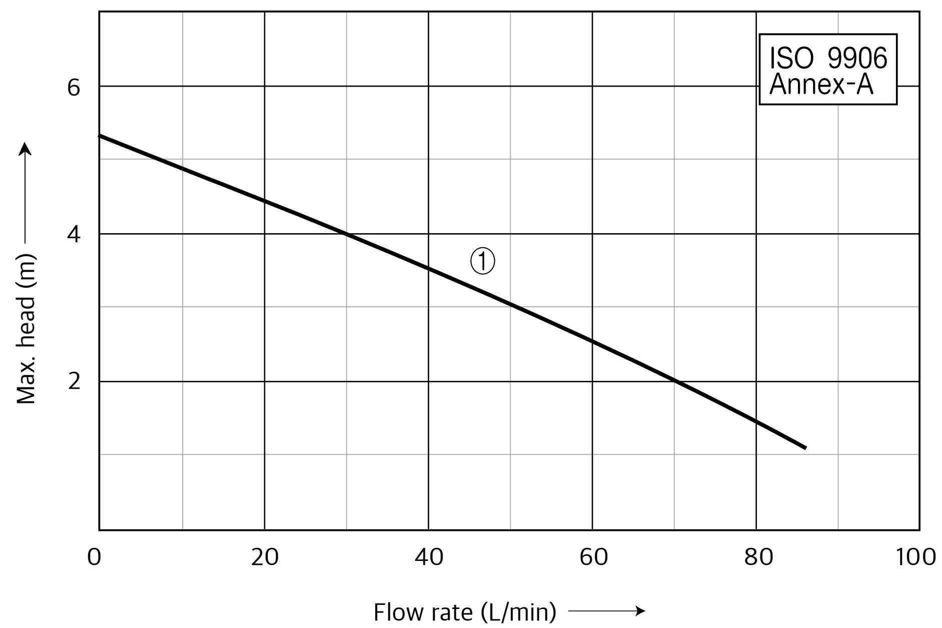
SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension (mm) A×B×C
①	IP-210	Single phase 220	1/6	3.5	3,300	0	3.5	25(A) Screw Ø19/25 hose	4.7	189×142×254
②	IP-310		1/3	5.5	5,200		5.5	32(A) Screw Ø32/38 hose	5.4	196×143×267



IPS-225(-F)

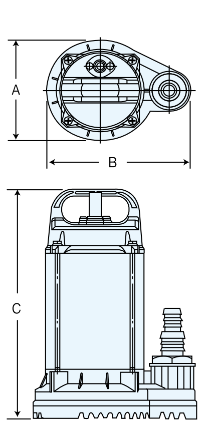
PERFORMANCE CURVE

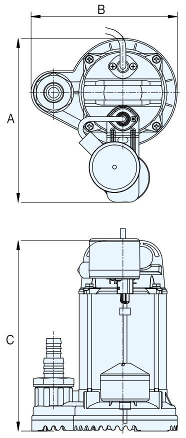


SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Max. head (m)	Flow rate(L/h) (Ht=0.5m)	Suction lift (m)	Discharge head (m)	Suction, Discharge diameter (A)	Weight (kg)	Dimension(mm) A×B×C
①	IPS-225	Single phase 220	1/6	5	5,100	0	5	25(A) Screw Ø19/25 hose	4.9	161×192×265
	IPS-225-F								5.1	

※ -F : Automatic(Float switch)

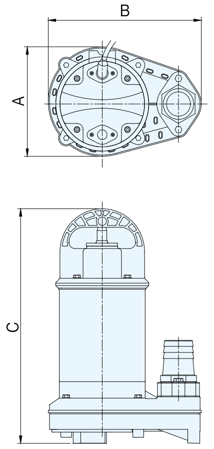



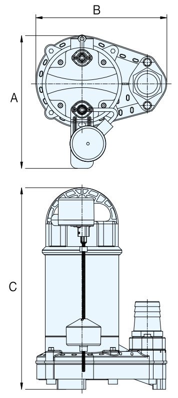


IP-235
IP-335
Standard type

IP-235-F
IP-335-F
Automatic type

IP-235-NFL
IP-335-NFL



IP-435N
IP-835N(-T)
IPV-435N(HJ)
IPV-835N(HJ)
Standard type

IP-435-F
IP-835-F
IPV-435-F(HJ)
IPV-835-F(HJ)
Automatic type

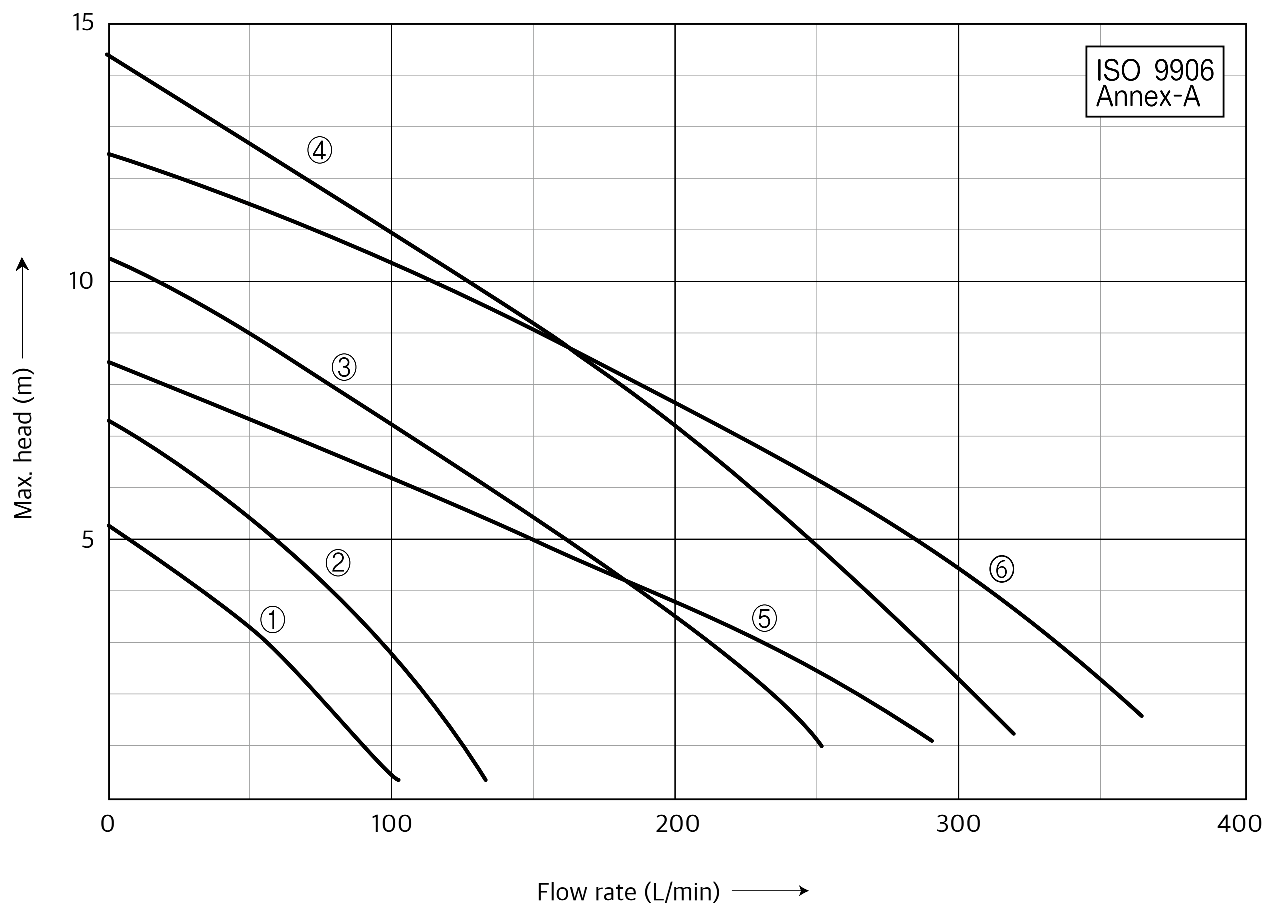
IP-435-NFL
IP-835-NFL
IPV-435-NFL(HJ)
IPV-835-NFL(HJ)

FEATURE

Light weight and corrosion resistance by
STAINLESS STEEL AND ENGINEERING PLASTIC

- For high head, low flow rate(IP-type)
- For wastewater(IPV-type)
- For agricultural & industrial, horticultural, pool, home

PERFORMANCE CURVE



① IP-235(-F/-NFL) ② IP-335(-F/-NFL) ③ IP-435N(-F/-NFL)
④ IP-835N(-F/-NFL) ⑤ IPV-435N(-F/-NFL) ⑥ IPV-835N(-F/-NFL)

IP(V)

SPECIFICATION

<table>
<tr><th colspan="2" rowspan="2">Model</th><th rowspan="2">Voltage
(V.AC)</th><th rowspan="2">Output
(HP)</th><th rowspan="2">Max. head
(m)</th><th rowspan="2">Flow rate(L/h)
(Ht=0.5m)</th><th rowspan="2">Suction lift
(m)</th><th rowspan="2">Discharge
head
(m)</th><th rowspan="2">Suction,
Discharge diameter
(A)</th><th rowspan="2">Weight
(kg)</th><th>Dimension(mm)</th></tr>
<tr><th>A×B×C</th></tr>
<tr><td rowspan="3">①</td><td>IP-235</td><td rowspan="6">Single phase
220</td><td rowspan="3">1/6</td><td rowspan="3">5</td><td rowspan="3">6,100</td><td rowspan="6">0</td><td rowspan="3">5</td><td rowspan="3">32(A) Screw
Ø19/25 hose</td><td>5.4</td><td rowspan="2">149×200×261</td></tr>
<tr><td>IP-235-F</td><td>5.6</td></tr>
<tr><td>IP-235-NFL</td><td>5.6</td><td>224×200×264</td></tr>
<tr><td rowspan="3">②</td><td>IP-335</td><td rowspan="3">1/3</td><td rowspan="3">6</td><td rowspan="3">7,600</td><td rowspan="3">6</td><td rowspan="3">32(A) Screw
Ø32/38 hose</td><td>7</td><td rowspan="2">149×200×284</td></tr>
<tr><td>IP-335-F</td><td>7.3</td></tr>
<tr><td>IP-335-NFL</td><td>7.3</td><td>224×200×287</td></tr>
<tr><td rowspan="3">③</td><td>IP-435N</td><td rowspan="6">Single phase
220</td><td rowspan="3">1/2</td><td rowspan="3">9</td><td rowspan="3">15,000</td><td rowspan="15">0</td><td rowspan="3">9</td><td rowspan="15">50(A) Screw
Ø50 hose</td><td>10</td><td rowspan="2">190×255×390</td></tr>
<tr><td>IP-435N-F</td><td>10.3</td></tr>
<tr><td>IP-435N-NFL</td><td>10.3</td><td>258×255×390</td></tr>
<tr><td rowspan="5">④</td><td>IP-835N</td><td rowspan="5">1</td><td rowspan="5">13</td><td rowspan="5">19,000</td><td rowspan="5">13.3</td><td>13.7</td><td rowspan="2">190×255×425</td></tr>
<tr><td>IP-835N-F</td><td>14</td></tr>
<tr><td>IP-835N-NFL</td><td>14</td><td>258×255×425</td></tr>
<tr><td>IP-835N-T</td><td rowspan="2">Three phase
380</td><td>13.7</td><td>190×255×425</td></tr>
<tr><td>IP-835N-T-NFL</td><td>14</td><td>258×255×476</td></tr>
<tr><td rowspan="3">⑤</td><td>IPV-435N(HJ)</td><td rowspan="7">Single phase
220</td><td rowspan="3">1/2</td><td rowspan="3">7</td><td rowspan="3">17,000</td><td rowspan="3">7</td><td>10</td><td rowspan="2">190×255×410</td></tr>
<tr><td>IPV-435N-F(HJ)</td><td>10.3</td></tr>
<tr><td>IPV-435N-NFL(HJ)</td><td>10.3</td><td>258×255×410</td></tr>
<tr><td rowspan="4">⑥</td><td>IPV-835N(HJ)</td><td rowspan="4">1</td><td rowspan="4">10.5</td><td rowspan="4">22,000</td><td rowspan="4">11</td><td>13.8</td><td rowspan="2">190×255×445</td></tr>
<tr><td>IPV-835N-F(HJ)</td><td>14.1</td></tr>
<tr><td>IPV-835N-NFL(HJ)</td><td>14.1</td><td>258×255×445</td></tr>
<tr><td>IPV-835N-T-NFL(HJ)</td><td>14.1</td><td>258×255×496</td></tr>
</table>

※ -F : Automatic(Float switch), -FL : Automatic(Vertical level switch), -T : three phases 380V
※ (HJ) type : Doesn't have joint of the hose

Hanil

Submersible Drainage Pumps for clean water & civil engineering works

◇ Water resistance with NBR special modeling structure
◇ Excellent decay resistance with shaft made of stainless steel

SUBMERSIBLE DRAINAGE PUMPS FOR CLEAN WATER & CIVIL ENGINEERING WORKS

IP

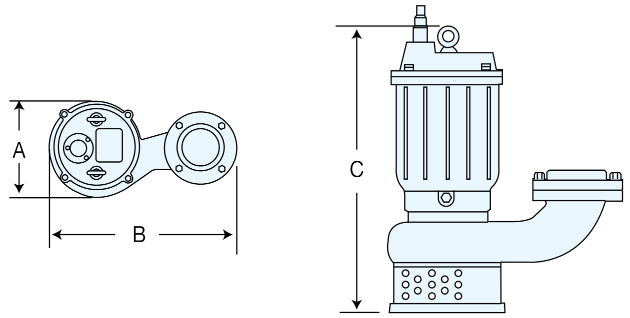
IP

IP-NFL

CL-80

Model selection guide

I	IMMERSION	
P	PUMP	
03	OUTPUT(HP)	
3	2 : SINGLE PHASE 3 : THREE PHASE	
2	2 : 220V, 3 : 380V, 4 : 440V	



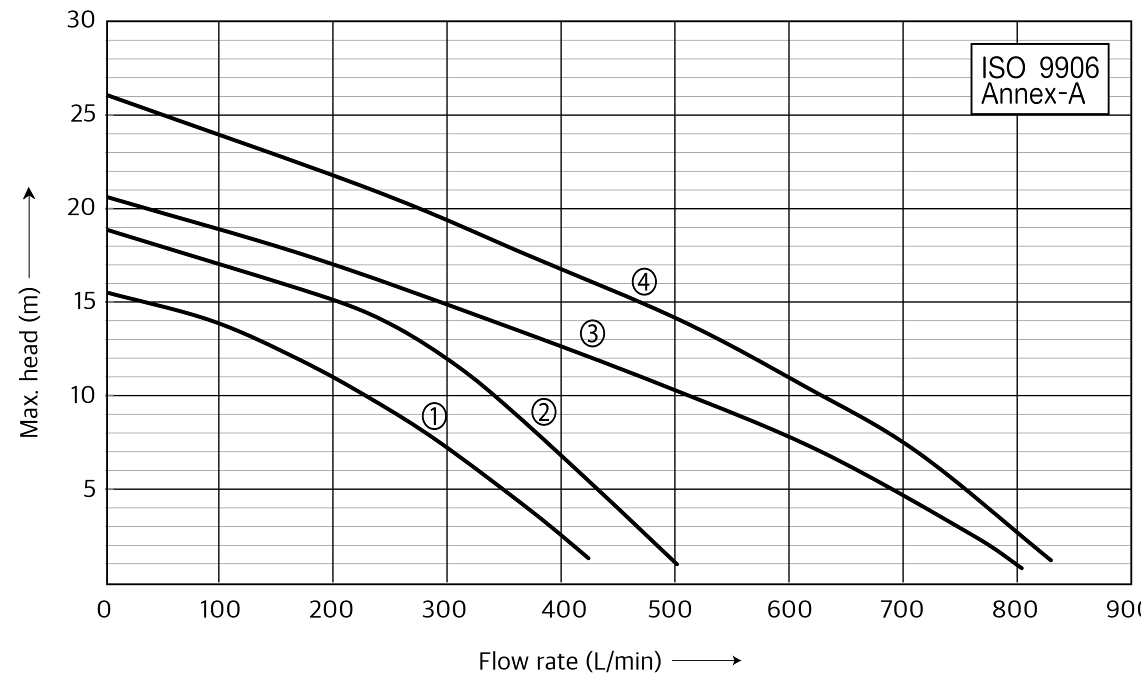
APPLICATION

FEATURE

EFFECTIVE OPERATION OF MOTOR WHEN WATER LEVEL IS LOWER THAN MOTOR

- For engineering work, construction work
- For water and sewage contruction work

PERFORMANCE CURVE



SPECIFICATION

① IP-0222N(-F)/0232N/0233N/0234N ② IP-0332N/0333N/0334N
③ IP-0532N/0533N/0534N ④ IP-0732N/0733N/0734N

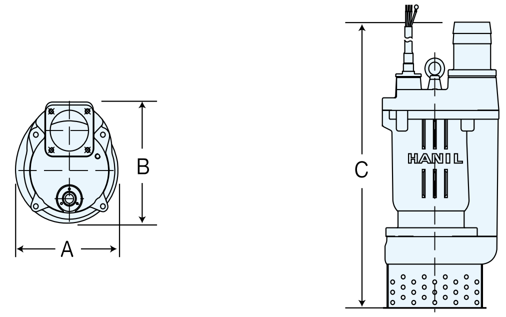
	Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)		Minimum operable height (mm)	Applied guide rail device	Weight (kg)	Dimension(mm) A	B	C
①	IP-0222N, NA, ND(-F)/(-NFL)	Single phase 220	2	5.5	14	50A : 170(10m) 80A : 210(10m)	50A / 80A	Model classification according to discharge structure None : Discharge integral type NA-type : Discharge - Elbow (Attached) ND-type : Discharge-Elbow (Not attached)	126	50A : CL-50 80A : CL-80	N50 : 36.8 N80 : 37.5 NA80 : 47.6 ND80 : 47	210	N50 : 270 N80 : 335 NA80 : 431 ND80 : 257	520
	IP-0232N, NA, ND	Three phase 220		3.5							N50 : 35.8 N80 : 36.5 NA80 : 46.6 ND80 : 37			
	IP-0233N, NA, ND(-NFL)	Three phase 380		2.3										
	IP-0234N, NA, ND(-NFL)	Three phase 440		1.7										
②	IP-0332N, NA, ND	Three phase 220	3	4.9	17	50A : 210(14m) 80A : 250(14m)					N50 : 37.2 N80 : 37.9 NA80 : 48 ND80 : 38.4			
	IP-0333N, NA, ND	Three phase 380		2.9										
	IP-0334N, NA, ND	Three phase 440		2.6										
③	IP-0532NA, ND	Three phase 220	5	8	18	280(14m)	80A		146		NA80 : 68.3 ND80 : 89.7	258	NA : 518 ND : 344	578
	IP-0533NA, ND	Three phase 380		4.6										
	IP-0534NA, ND	Three phase 440		4.3										
④	IP-0732NA, ND	Three phase 220	7.5	10.4	25	330(17m)					NA80 : 72.2 ND80 : 63.6			
	IP-0733NA, ND	Three phase 380		6.4										
	IP-0734NA, ND	Three phase 440		5.5										

※ Option : Guide rail device CL-80

Model selection guide

I	IMMERSION
P	PUMP
C	CONSTRUCT
H	HIGH PRESSURE
03	OUTPUT(HP)
3	2 : SINGLE PHASE 3 : THREE PHASE
2	2 : 220V, 3 : 380V, 4 : 440V

IPCH IPCH-NFL



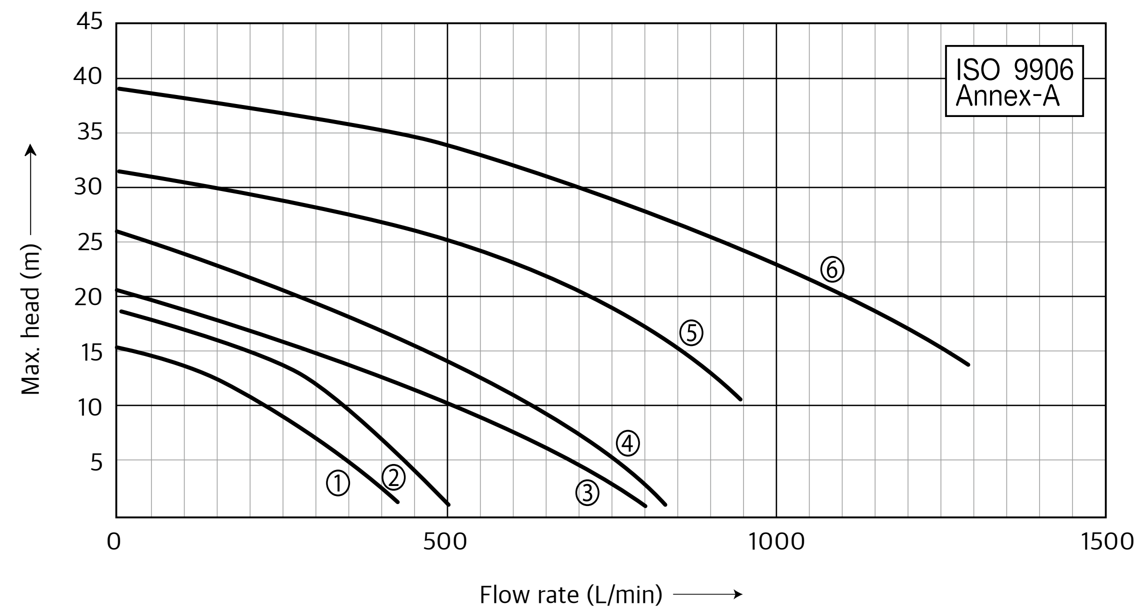
APPLICATION

FEATURE

EFFECTIVE OPERATION OF MOTOR WHEN WATER LEVEL IS LOWER THAN MOTOR

- For engineering work, construction work
- For water and sewage contruction work

PERFORMANCE CURVE



① IPCH-0222N(-F)/0232N/0233N/0234N ② IPCH-0332N/0333N/0334N ③ IPCH-0532N/0533N/0534N
④ IPCH-0732N/0733N/0734N ⑤ IPCH-1033 ⑥ IPCH-1533

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)		Minimum operable height (mm)	Applied guide rail device	Weight (kg)	Dimension(mm) A	B	C
①	IPCH-0222N, NA, ND/(-F)/(-NFL)	Single phase 220	2	5.5	14	50A : 200(10m) 80A : 240(10m)	50A / 80A	Hose type / Screw type	126	-	44.5	210	237	517
	IPCH-0232N	Three phase 220		3.5							43.5			
	IPCH-0233N, NA, ND/-NFL)	Three phase 380		2.3										
	IPCH-0234N, NA, ND/-NFL)	Three phase 440		1.7										
②	IPCH-0332N	Three phase 220	3	4.9	17	50A : 210(14m) 80A : 250(14m)					44.9			
	IPCH-0333N	Three phase 380		2.9										
	IPCH-0334N	Three phase 440		2.6										
③	IPCH-0532N	Three phase 220	5	8	18	280(14m)	80A		146		70	259	315	563
	IPCH-0533N	Three phase 380		4.6										
	IPCH-0534N	Three phase 440		4.3										
④	IPCH-0732N	Three phase 220	7.5	10.4	25	330(17m)					73			
	IPCH-0733N	Three phase 380		6.4										
	IPCH-0734N	Three phase 440		5.5										
⑤	IPCH-1033	Three phase 380	10	9.2	30	640(21m)	100A	Hose type	180	-	155	330	360	910
⑥	IPCH-1533		15	13.9	38	800(24m)					170	330	360	950

※ Option : Guide rail device CL-80

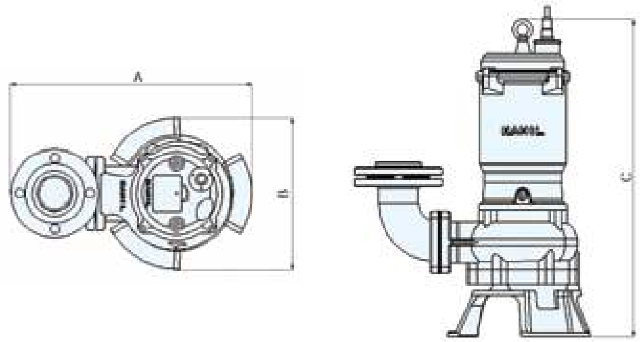
Model selection guide

IP	IMMERSION PUMP
nC	NON-CLOG
02	MOTOR OUTPUT(HP)
2	VOLTAGE 2 : SINGLE PHASE, 3 : THREE PHASE
2	VOLTAGE 2 : 220V, 3 : 380V
NA	NA : DISCHARGE-ELBOW (ATTACHED) ND : DISCHARGE-ELBOW (NOT ATTACHED)
65	SUCTION, DISCHARGE DIAMETER 65 : 65A 80 : 80A

APPLICATION

- Water tank cleaning
- Sauna
- Aquarium drainage
- Simple sewage equipment
- Civil engineering work
- Building sewage
- For industrial drainage

IPnC



FEATURE

- Non-clog type impeller
- Suitable for Sewage, Effluent, Waste water, Dewatering
- Powerful 4 pole motor
- Prevents clogging; high efficiency and saves energy

PERFORMANCE CURVE

① IPNC-0132N/0133N ② IPNC-0232N/0233N

SPECIFICATION

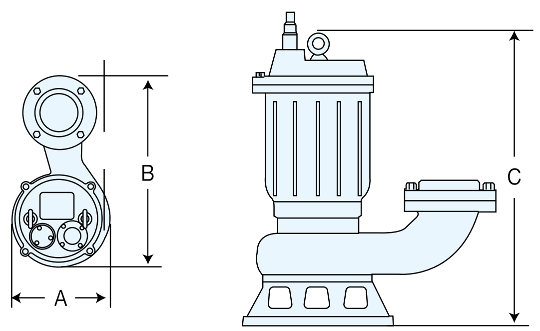
	Model	Voltage (V.AC)	Output (HP)	Current at full load (A)	Max. head (m)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)		Applied guide rail device (mm)	Weight (kg)	Dimension(mm) A	B	C
①	IPnC-0132NA	Three phase 220	1	1.7	7	350(4m)	65A	Model classification according to discharge structure None : Discharge integral type NA-type : Discharge-Elbow (Attached) ND-type : Discharge-Elbow (Not attached)	235	NA65 : 62 ND65 : 53	483	300	630
	IPnC-0132ND										315	300	630
	IPnC-0133NA	Three phase 380		1.2							480	300	630
	IPnC-0133ND										315	300	630
②	IPnC-0232NA	Three phase 220	2	4	8.5	440(6m)	80A		255	NA80 : 65 ND80 : 56	515	300	650
	IPnC-0232 ND										345	300	650
	IPnC-0233NA	Three phase 380		2.3							515	300	650
	PnC-0233ND										345	300	650

SUBMERSIBLE DRAINAGE PUMPS FOR CLEAN WATER & CIVIL ENGINEERING WORKS

IPV

Model selection guide

I	IMMERSION
P	PUMP
V	VOLUTE
02	OUTPUT(HP)
3	THREE PHASE
2	2 : 220V, 3 : 380V, 4 : 440V



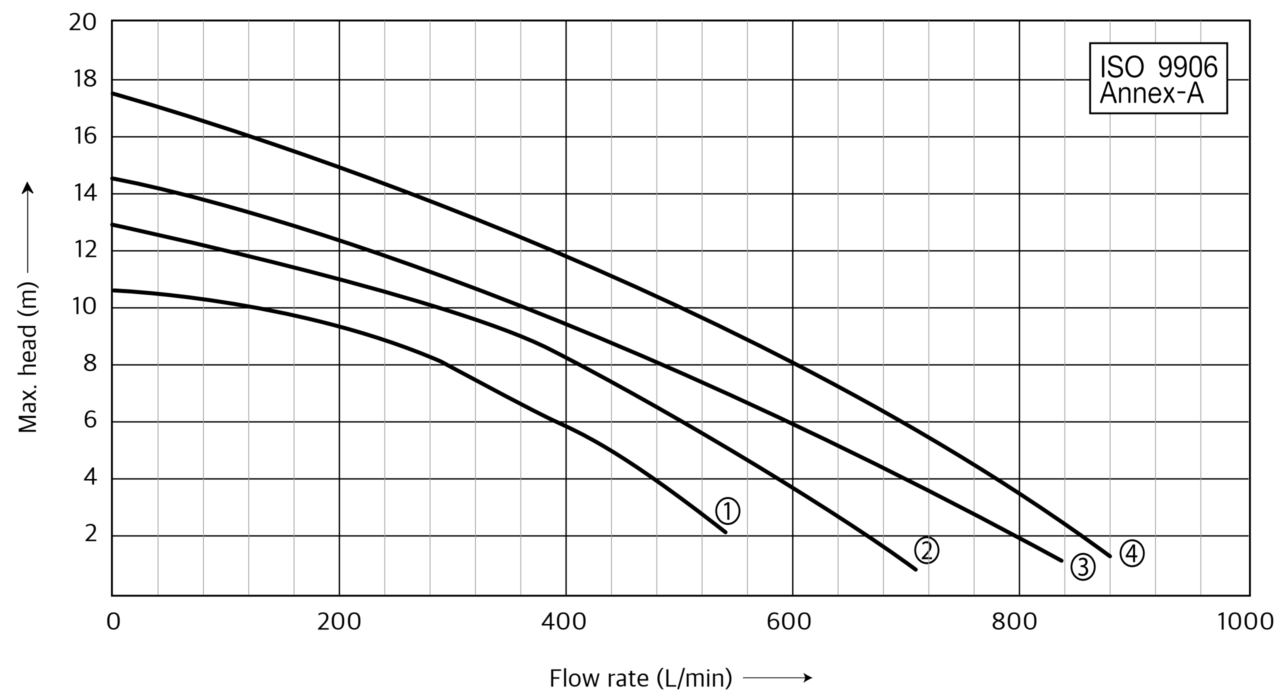
APPLICATION

FEATURE

ATTACHED CUTTER

- Attached cutter(multi-stage sewage cutter device of suction guide : IPVH-0332/0333 type)
- For sewage treatment plant, water purifier tank, water disposal plant

PERFORMANCE CURVE



① IPV-0222N(-F)/0232N/0233N/0234N ② IPV-0332N/0333N/0334N
③ IPV-0532N/0533N/0534N ④ IPV-0732N/0733N/0734N

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Current at full load(A)	Max. head (m)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)		Minimum operable height (mm)	Applied guide rail device	Weight (kg)	Dimension(mm) A	B	C
①	IPV-0222N, NA, ND/(-F)/(-NFL)	Single phase 220	2	5.5	10	300(7m)	80A	Model classification according to discharge structure None : Discharge integral type NA-type : Discharge-Elbow (Attached) ND-type : Discharge-Elbow (Not attached)	160	CL-80	N80 : 39.7 NA80 : 48.5 ND80 : 39.9	225	N80 : 333 NA80 : 426 ND80 : 253	554
	IPV-0232N, NA, ND	Three phase 220		3.5							N80 : 38.7 NA80 : 47.5 ND80 : 38.9			
	IPV-0233N, NA, ND(-NFL)	Three phase 380		2.3										
	IPV-0234N, NA, ND(-NFL)	Three phase 440		1.7										
②	IPV-0332N, NA, ND	Three phase 220	3	4.9	11	380(8m)					N80 : 40.3 NA80 : 49.1 ND80 : 40.5			
	IPV-0333N, NA, ND	Three phase 380		2.9										
	IPV-0334N, NA, ND	Three phase 440		2.5										
③	IPV-0532NA, ND	Three phase 220	5	8.0	13	400(8m)			215		NA80 : 70 ND80 : 61.5	292	NA80 : 475 ND80 : 301	648
	IPV-0533NA, ND	Three phase 380		4.9										
	IPV-0534NA, ND	Three phase 440		4.4										
④	IPV-0732NA, ND	Three phase 220	7.5	10.5	14	480(10m)					NA80 : 74.2 ND80 : 65.7			
	IPV-0733NA, ND	Three phase 380		6.4										
	IPV-0734NA, ND	Three phase 440		5.5										

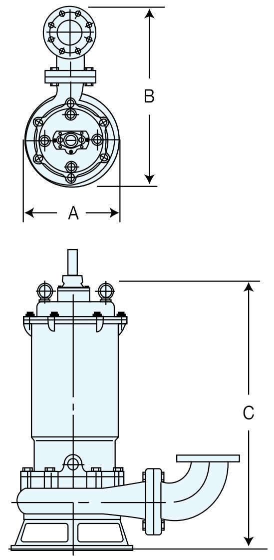
※ Option : Guide rail device CL-80

SUBMERSIBLE DRAINAGE PUMPS FOR CLEAN WATER & CIVIL ENGINEERING WORKS

IPVH

IPVH-1033

CL-100



Model selection guide

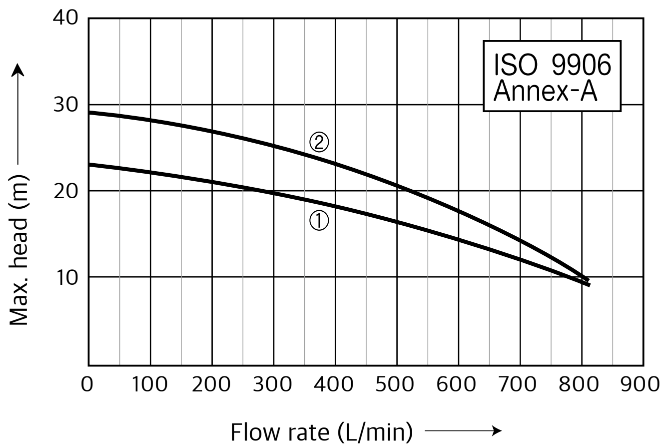
I	IMMERSION
P	PUMP
V	VORTEX
H	HIGH PRESSURE
10	OUTPUT(HP)
3	THREE PHASE
3	2 : 220V, 3 : 380V, 4 : 440V

FEATURE

INSTALLED SEMI-VORTEX IMPELLER

- For sewage disposal plant, combined septic tank

PERFORMANCE CURVE



① IP-1032/1033 ② IP-1532/1533

APPLICATION

- Tunneling work
- Civil engineering work
- Building sewage
- Livestock waste water
- Septic tank drainage
- For industrial drainage
- Waste water treatment plant

SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)	Applied guide rail device	Weight (kg)	Dimension(mm) A×B×C
1	IPVH-1032/1033	Three phase 380	10	480(14)	100	HTO-100	158	350×610×800
2	IPVH-1532/1533	Three phase 380	15	540(17)	100	HTO-100	173	350×610×840

※ Option : Guide rail device HTO-100

Hanil

Submersible Drainage Pumps for sewage

◇ Excellent water resistance

◇ Water resistance with NBR special modeling structure

◇ Excellent decay resistance with shaft made of stainless steel

SUBMERSIBLE DRAINAGE PUMPS FOR SEWAGE

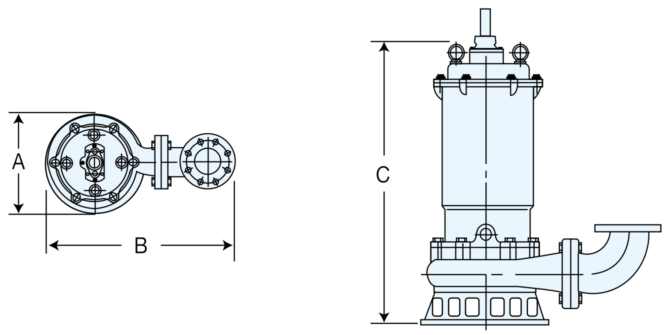
IPV

IPV-1033

CL-100

Model selection guide

I	IMMERSION
P	PUMP
V	VOLUTE
10	OUTPUT(HP)
3	THREE PHASE
3	2 : 220V, 3 : 380V, 4 : 440V



APPLICATION

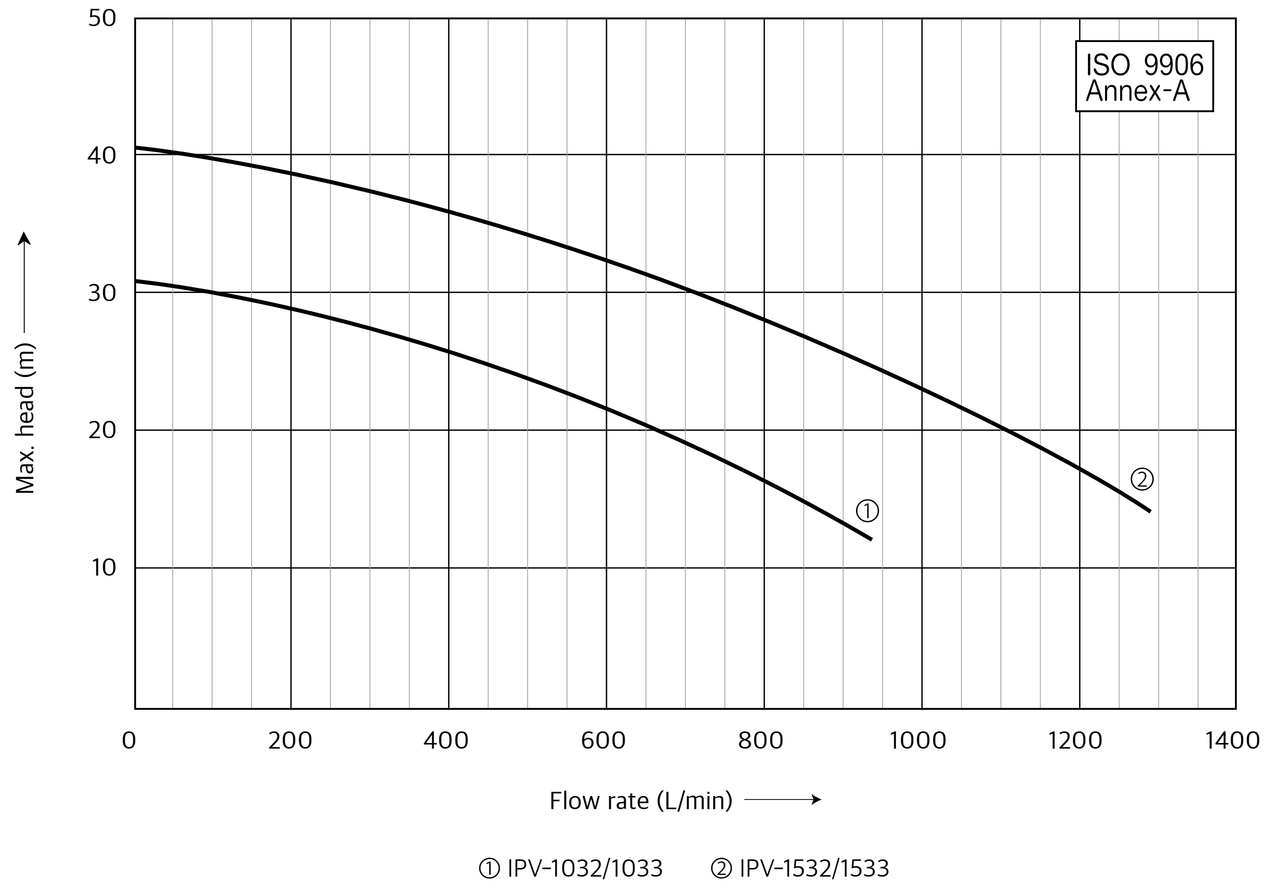
Tunneling work
Civil engineering work
Building sewage
Livestock waste water
Septic tank drainage
For industrial drainage
Waste water treatment plant

FEATURE

INSTALLED TWO-VANE SEMI-OPEN IMPELLER

- For factory, large building
- Perfect water resistance by waterproof structure
- Special NBR molding structure for power cable and protective connection packing for float switch cable
- Excellent decay resistance with shaft made of stainless steel

PERFORMANCE CURVE



SPECIFICATION

	Model	Voltage (V.AC)	Output (HP)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)	Applied guide rail device	Weight (kg)	Dimension(mm) A×B×C
①	IPV-1032/1033	Three phase 380	10	640(21)	100	HTO-100	158	350×610×800
②	IPV-1532/1533		15	800(25)			173	350×610×840

※ Option : Guide rail device HTO-100

SUBMERSIBLE DRAINAGE PUMPS FOR SEWAGE

IPVL

IPVL-0222

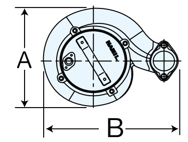
CL-50

IPVL-0222-3(-3F)

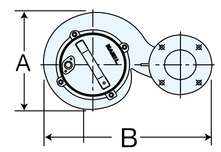
Shape of discharge head

Model selection guide

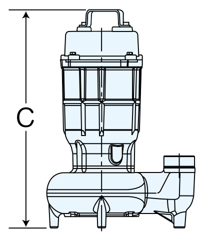
I	IMMERSION
P	PUMP
V	VOLUTE
02	OUTPUT(HP)
2	2 : SINGLE PHASE 3 : THREE PHASE
2	2 : 220V, 3 : 380V, 4 : 440V
NONE	NON-AUTOMATIC
F	AUTOMATIC(FLOAT SWITCH)



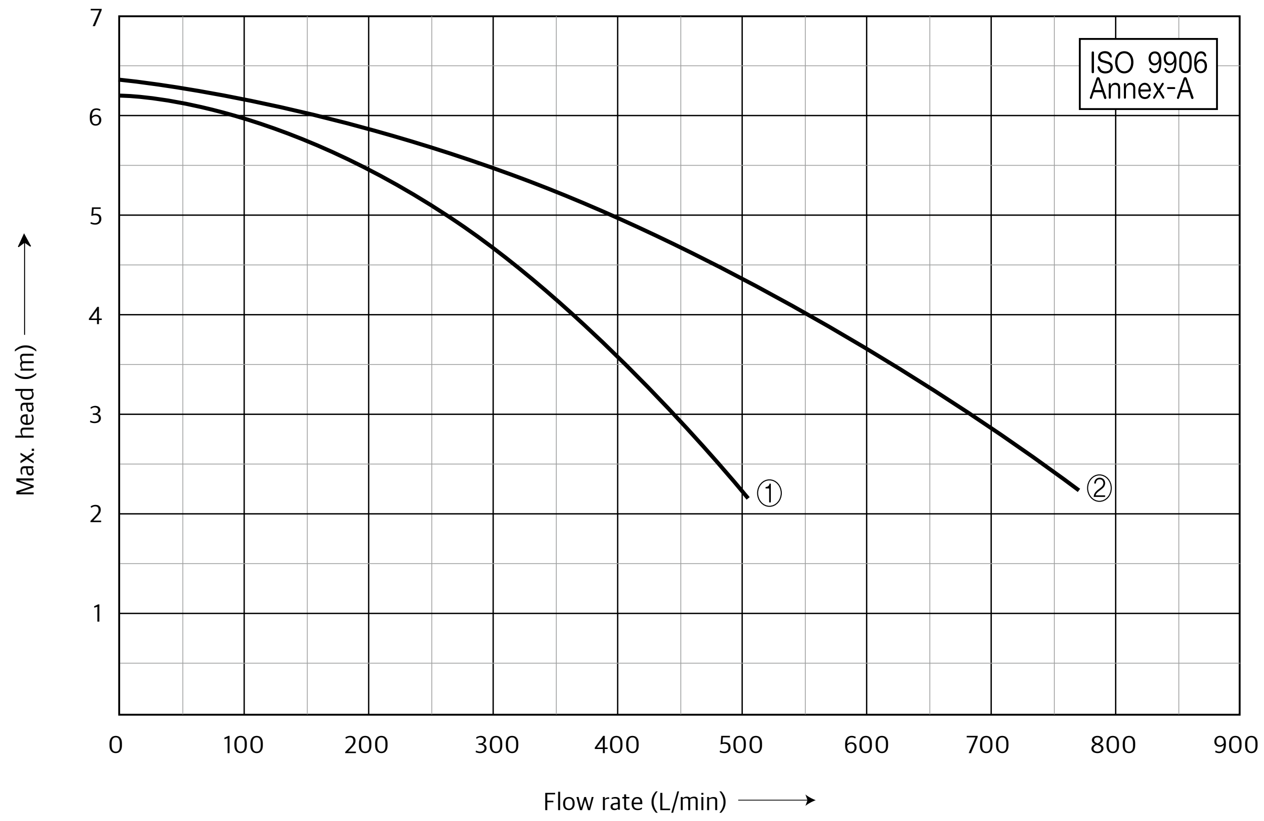
IPVL-0222(-2F)



IPVL-0222-3(-3F)



PERFORMANCE CURVE



① IPVL-0222(-F) ② IPVL-0222-3(-3F)

APPLICATION

Tunneling work
Civil engineering work
Building sewage
Livestock waste water
Septic tank drainage
For industrial drainage
Waste water treatment plant

FEATURE

Smooth transfering solid material by
4 POLE MOTOR

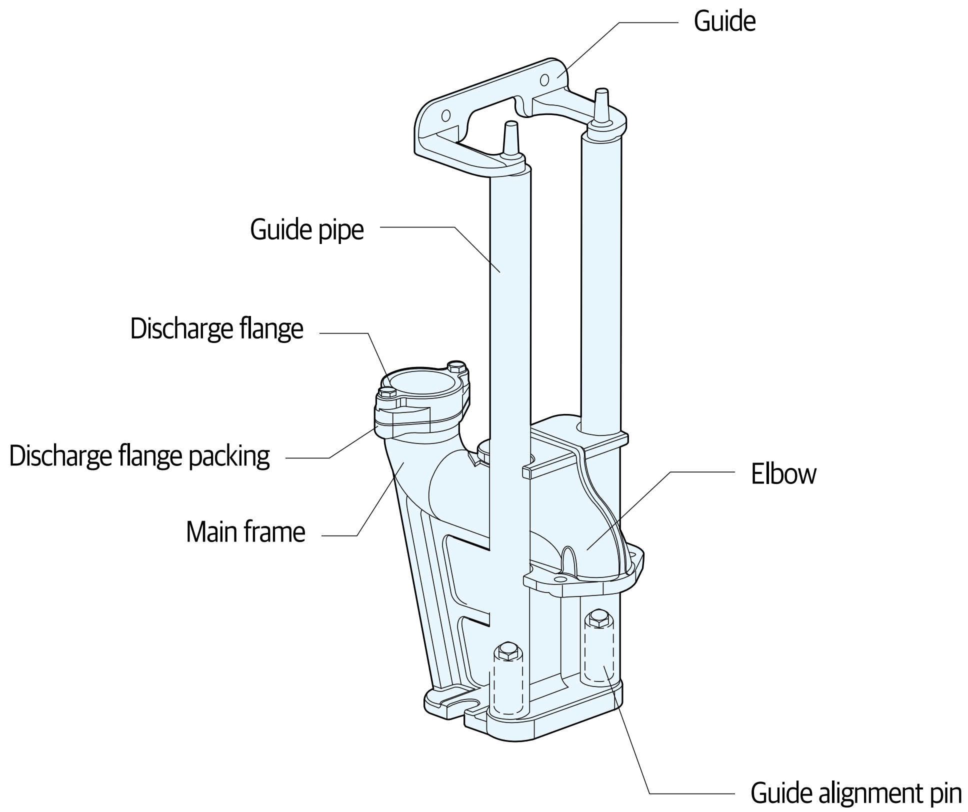
- Human excreta treatment plant, septic tank, waste water treatment plant

SPECIFICATION

Model		Voltage (V.AC)	Output (HP)	Rated flow rate(L/min) at Ht(m)	Suction, Discharge diameter (A)	Applied guide rail device	Weight (kg)	Dimension(mm) A×B×C
①	IPVL-0222(-F)	Single phase 220	1.5	500(2)	50	CL-50	37.6	260×338×470
②	IPVL-0222-3(-3F)			650(2)	80	-	43.8	260×428×470

※ Option : Guide rail device HTO-50, 80
※ -F : Automatic(Float switch)

NAME OF PART



FEATURE

ONE TOUCH ASSEMBLE/DISASSEMBLE PUMP

- Low pressure loss
- Prevention against left and right rocking

CL-50

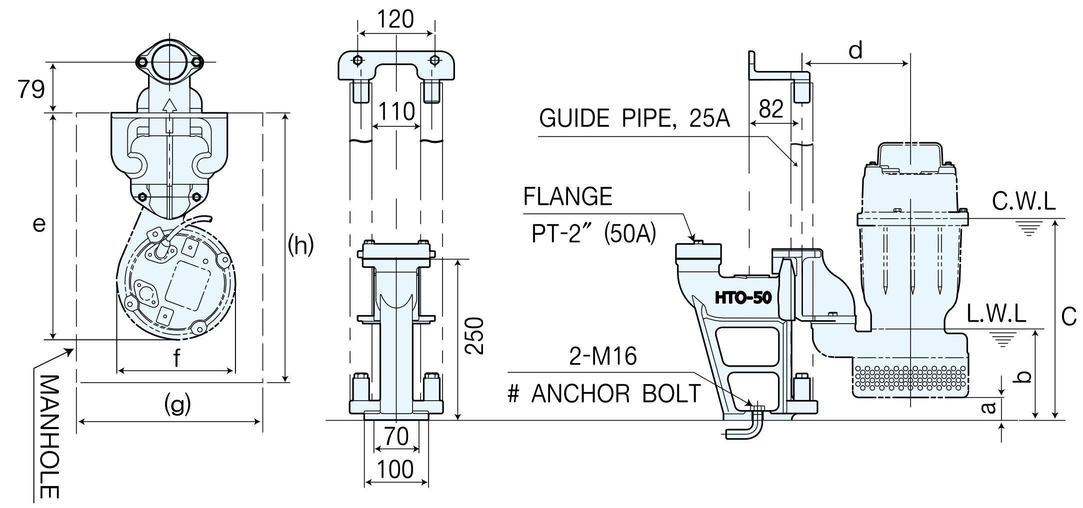
CL-80

CL-100, 150

CL-50

▶▷ CL-50(Suction, Discharge diameter : 50A) Appearance and setting drawing

CL-50



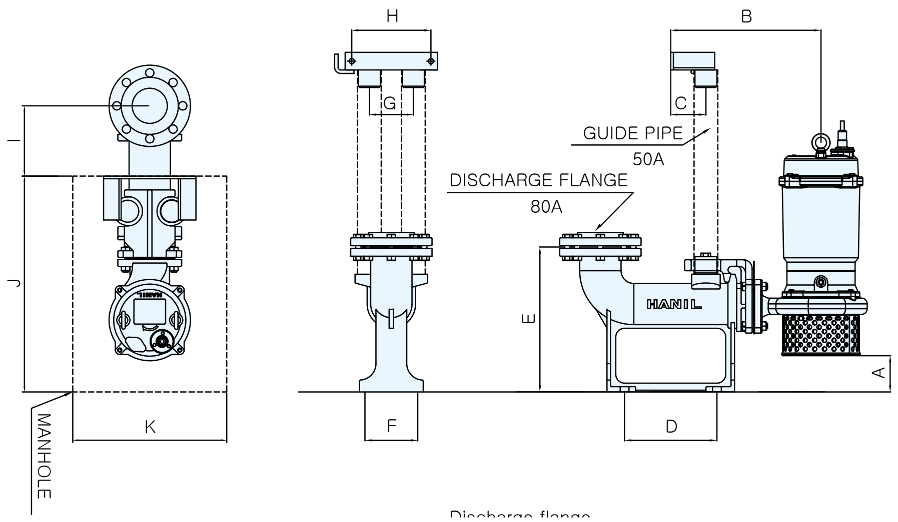
※ The drawing is the sample installation for guide rail device. Exterior structure could be changed according to using environment

Model No. / Type	IP-415N IPSS-415SS	IP-815N(T) IPSS-815SS(T)	IPV-415N IPVSS-415SS	IPV-815N(T) IPVSS-815SS(T)	IPVL-0222
a	35	35	50	50	20
b	140	140	150	150	150
c	313	349	353	389	380
d	169	169	176	176	227
e	341	341	348	348	434
f	185	185	180	180	260
(g)	290	290	290	290	390
(h)	420	420	420	420	520

CL-80

▶▷ CL-80(Suction, Discharge diameter : 80A) Appearance and setting drawing

CL-80



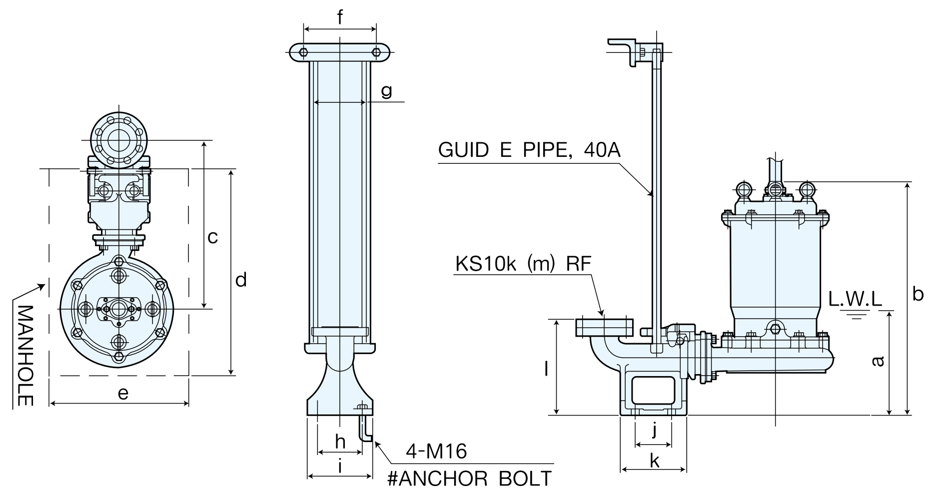
※ The drawing is the sample installation for guide rail device. Exterior structure could be changed according to using environment

Model No. / Category	A	B	C	D	E	F	G	H	I	J	K
IP(V)(nC)-0222ND80											
IP(V)(nC)-0232ND80											
IP(V)(nC)-0233ND80											
IP(V)-0234ND80	78(IP) 90(IPV) 100(IPnC)	350									
IP(V)-0332ND80											
IP(V)-0333ND80											
IP(V)-0334ND80			80	210	335	120	100	180	160	550	350
IP(V)-0532ND80											
IP(V)-0533ND80											
IP(V)-0534ND80	57(IP) 65(IPV)	415									
IP(V)-0732ND80											
IP(V)-0733ND80											
IP(V)-0734ND80											

CL-100, 150

▶▷ CL-100(Suction, Discharge diameter : 100A) /
CL-150(Suction, Discharge diameter : 150A) Appearance and setting drawing

CL-100, 150



※ The drawing is the sample installation for guide rail device. Exterior structure could be changed according to using environment

Model No. / Category	Guide rail device Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M
IPV-1033		350	900	680	900	500								
IPV-1533		350	940	680	900	500								
IPV-2033		350	940	680	900	500								
IPVH-1033		450	935	665	900	500								
IPVH-1533	CL-100	450	975	665	900	500	172	160	200	240	200	300	370	100
IPVH-2033		450	975	665	900	500								
IPV-2533(100)		380	1040	735	1000	600								
IPV-3033(100)		380	1040	735	1000	600								
IPV-4033(100)		380	1040	735	1000	600								
IPV-2533(150)		400	1100	770	1000	600								
IPV-3033(150)	CL-150	400	1100	770	1000	600	260	280	330	380	300	400	490	150
IPV-4033(150)		400	1100	770	1000	600								

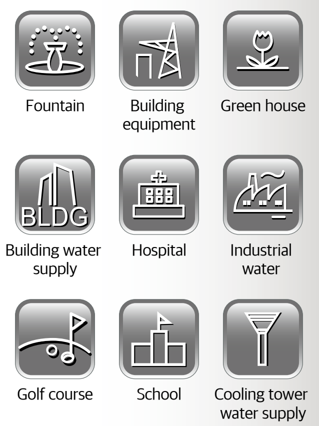
DEEP SUBMERSIBLE PUMPS

SSP

Model selection guide

S	STAINLESS STEEL
S	SUBMERSIBLE
P	PUMP
3	3 : NOMINAL FLOW RATE(m³/hr)
15	15 : IMPELLER STAGE
-S	SINGLE PHASE 220V
-2T	THREE PHASE 220V
-3T	THREE PHASE 380V

APPLICATION



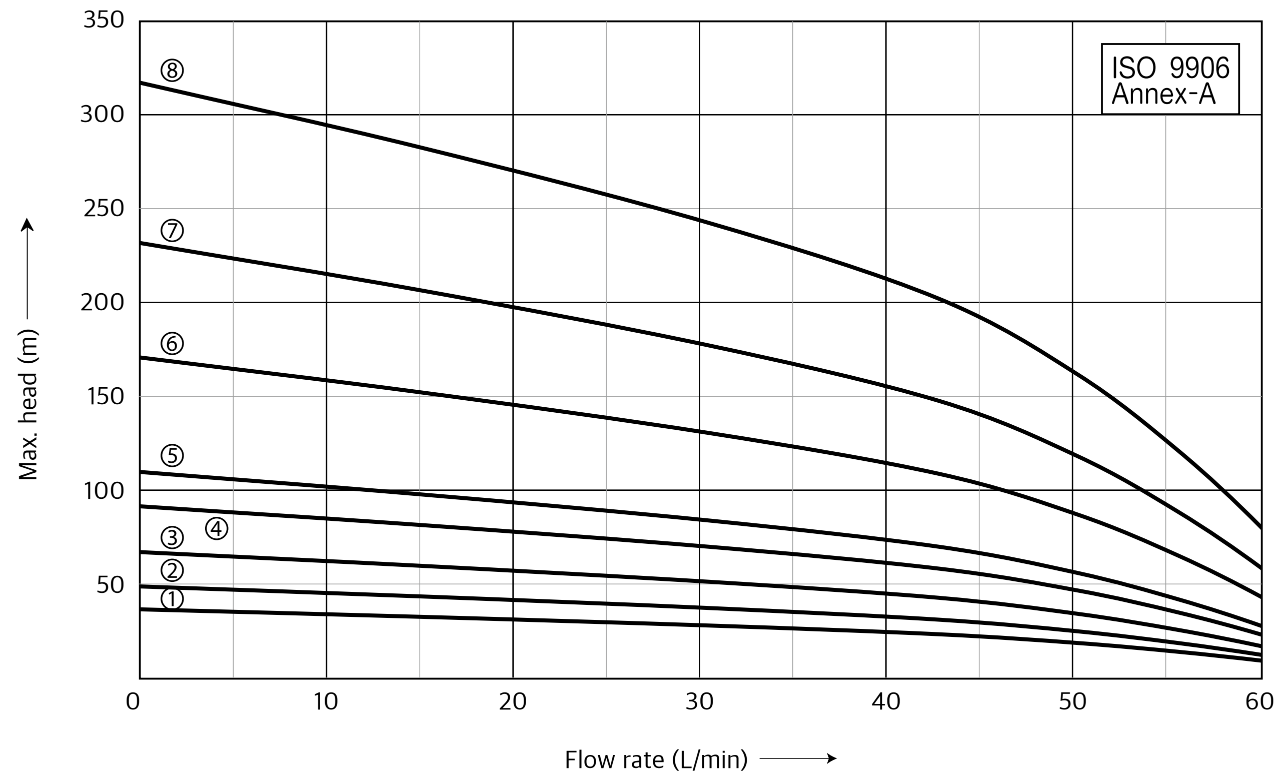
SSP-Series

FEATURE

- Large diameter type deep submersible pump for water supply
- Rust-proof stainless steel on water contact surface
- Check valve(Non-return valve)
- Idling protection(4") with priming volt

SSP-2 Series (Standard flow rate 33LPM)

PERFORMANCE CURVE

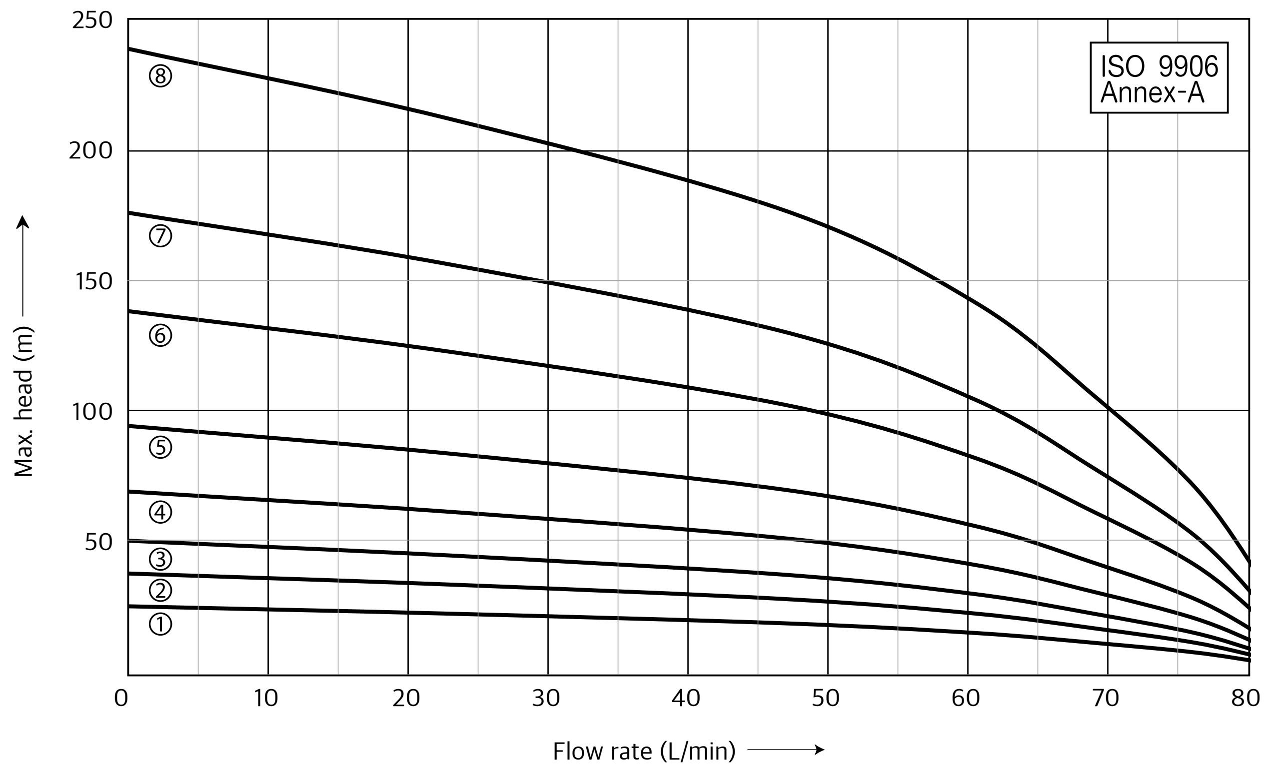


SPECIFICATION

	Model	Motor Voltage (V.AC)	Motor Output (HP)	Motor Current (A)	Stage	Max. head (m)	Suction, Discharge diameter (A)	Well diameter (mm)	Dimension(mm) diameter	Dimension(mm) Pump	Dimension(mm) Motor	Dimension(mm) Total length	Weight(kg) Pump	Weight(kg) Motor
①	SSP-2-6-S	Single phase 220	0.5	4.2	6	37	32	ø105	ø88	276	242	518	1.9	8.6
②	SSP-2-8-S	Single phase 220	0.75	6.3	8	49				318	271	589	2.4	9.5
③	SSP-2-11-S	Single phase 220	1	7.6	11	67				381	298	679	3.3	10.9
	SSP-2-11-3T	Three phase 380		2.1										
④	SSP-2-15-S	Single phase 220	2	12.1	15	92				465	384	849	4.3	15.0
	SSP-2-15-2T	Three phase 220		6.9							346	811		12.7
	SSP-2-15-3T	Three phase 380		4.0										
⑤	SSP-2-18-S	Single phase 220		12.1	18	110				528	384	912	5.1	15.0
	SSP-2-18-2T	Three phase 220		6.9							346	874		12.7
	SSP-2-18-3T	Three phase 380		4.0										
⑥	SSP-2-28-S	Single phase 220	3	17.8	28	171				738	600	1338	7.8	18.6
	SSP-2-28-2T	Three phase 220		10.4							524	1262		15.9
	SSP-2-28-3T	Three phase 380		6.0										
⑦	SSP-2-38-2T	Three phase 220	5	15.5	38	233				948	600	1548	10.5	25.4
	SSP-2-38-3T	Three phase 380		9.0										
⑧	SSP-2-52-2T	Three phase 220		15.5	52	318				1242	600	1842	14.3	25.4
	SSP-2-52-3T	Three phase 380		9.0										

SSP-3 Series (Standard flow rate 50LPM)

PERFORMANCE CURVE

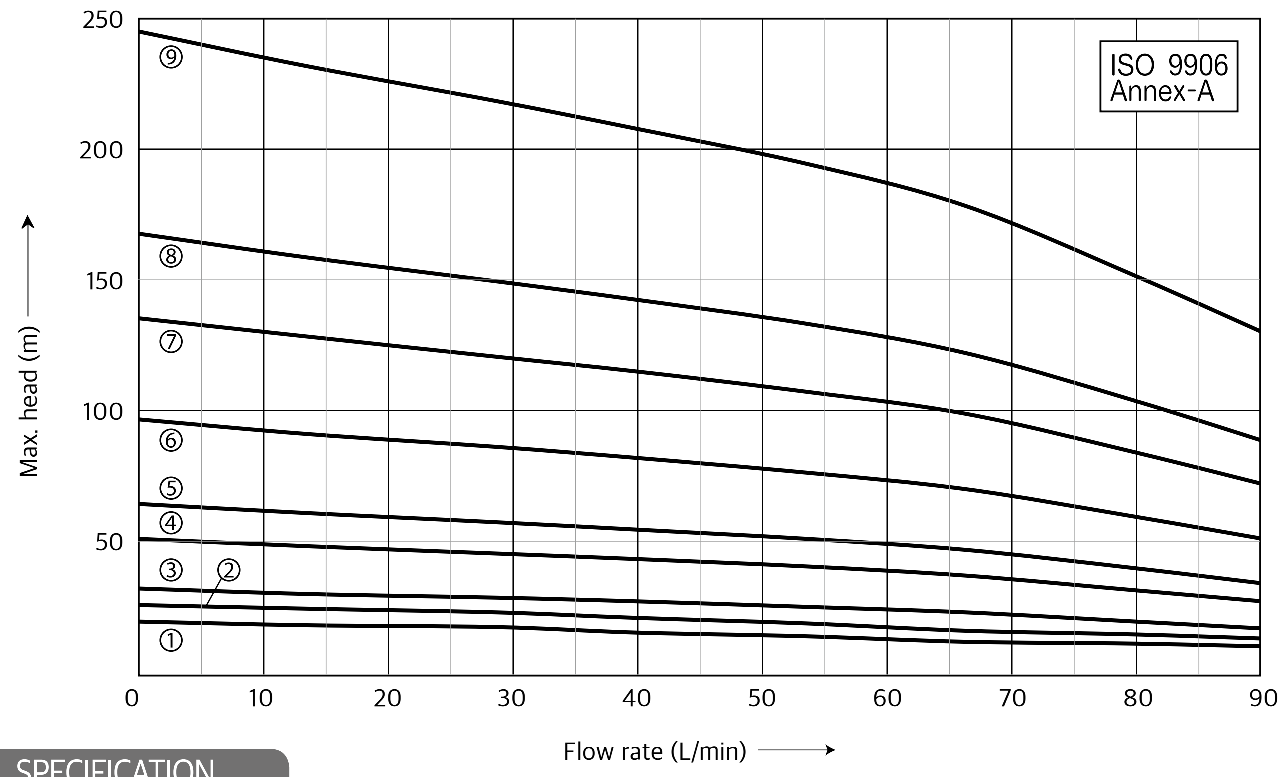


SPECIFICATION

	Model	Motor			Stage	Max. head (m)	Suction, Discharge diameter (A)	Well diameter (mm)	Dimension(mm)				Weight(kg)	
		Voltage (V.AC)	Output (HP)	Current (A)					diameter	Pump	Motor	Total length	Pump	Motor
①	SSP-3-4-S	Single phase 220	0.5	4.2	4	25	32	ø105	ø88	234	242	476	1.4	8.6
②	SSP-3-6-S	Single phase 220	0.75	6.3	6	38				276	271	547	2.0	9.5
③	SSP-3-8-S	Single phase 220	1	7.6	8	51				318	298	616	2.5	10.9
	SSP-3-8-3T	Three phase 380		2.1										
④	SSP-3-11-S	Single phase 220	2	12.1	11	70				381	384	765	3.4	15.0
	SSP-3-11-2T	Three phase 220		6.9							346	727		12.7
	SSP-3-11-3T	Three phase 380		4.0										
⑤	SSP-3-15-S	Single phase 220		12.1	15	95				465	384	849	4.5	15.0
	SSP-3-15-2T	Three phase 220		6.9							346	811		12.7
	SSP-3-15-3T	Three phase 380		4.0										
⑥	SSP-3-22-S	Single phase 220	3	17.8	22	139				612	600	1212	6.4	18.6
	SSP-3-22-2T	Three phase 220		10.4							524	1136		15.9
	SSP-3-22-3T	Three phase 380		6.0										
⑦	SSP-3-28-2T	Three phase 220	5	15.5	28	177				738	600	1338	8.1	25.4
	SSP-3-28-3T	Three phase 380		9.0										
⑧	SSP-3-38-2T	Three phase 220		15.5	38	240				948	600	1548	10.9	25.4
	SSP-3-38-3T	Three phase 380		9.0										

SSP-5 Series (Standard flow rate 83LPM)

PERFORMANCE CURVE

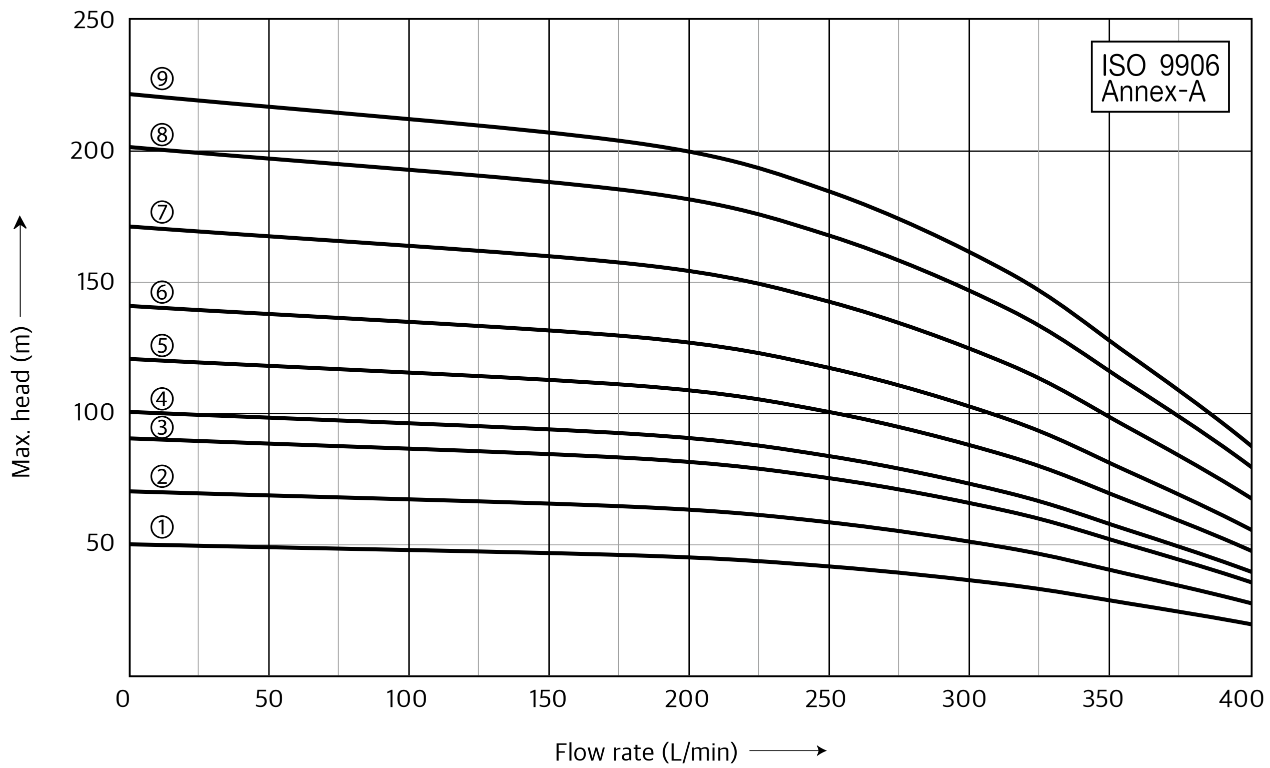


SPECIFICATION

	Model	Motor			Stage	Max. head (m)	Suction, Discharge diameter (A)	Well diameter (mm)	Dimension(mm)				Weight(kg)	
		Voltage (V.AC)	Output (HP)	Current (A)					diameter	Pump	Motor	Total length	Pump	Motor
①	SSP-5-3-S	Single phase 220	0.5	4.2	3	18	40	ø105	ø88	222	242	464	1.2	8.6
②	SSP-5-4-S	Single phase 220	0.75	6.3	4	25				246	271	517	1.5	9.5
③	SSP-5-5-S	Single phase 220	1	7.6	5	32				270	298	568	1.8	10.9
	SSP-5-5-3T	Three phase 380		2.1										
④	SSP-5-8-S	Single phase 220	2	12.1	8	50				342	384	726	2.8	15.0
	SSP-5-8-2T	Three phase 220		6.9							346	688		12.7
	SSP-5-8-3T	Three phase 380		4.0										
⑤	SSP-5-10-S	Single phase 220		12.1	10	63				390	384	774	3.4	15.0
	SSP-5-10-2T	Three phase 220		6.9							346	736		12.7
	SSP-5-10-3T	Three phase 380		4.0										
⑥	SSP-5-15-S	Single phase 220	3	17.8	15	94				510	600	1110	4.9	18.6
	SSP-5-15-2T	Three phase 220		10.4							524	1034		15.9
	SSP-5-15-3T	Three phase 380		6.0										
⑦	SSP-5-21-2T	Three phase 220	5	15.5	21	133				654	600	1254	6.8	25.4
	SSP-5-21-3T	Three phase 380		9.0										
⑧	SSP-5-26-2T	Three phase 220		15.5	26	165				774	752	1526	8.3	32.2
	SSP-5-26-3T	Three phase 380		9.0										
⑨	SSP-5-38-2T	Three phase 220	7.5	Motor None	38	239				1062	752	1814	12.1	32.2
	SSP-5-38-3T	Three phase 380		18.7										

SSP-17 Series (Standard flow rate 283LPM)

PERFORMANCE CURVE

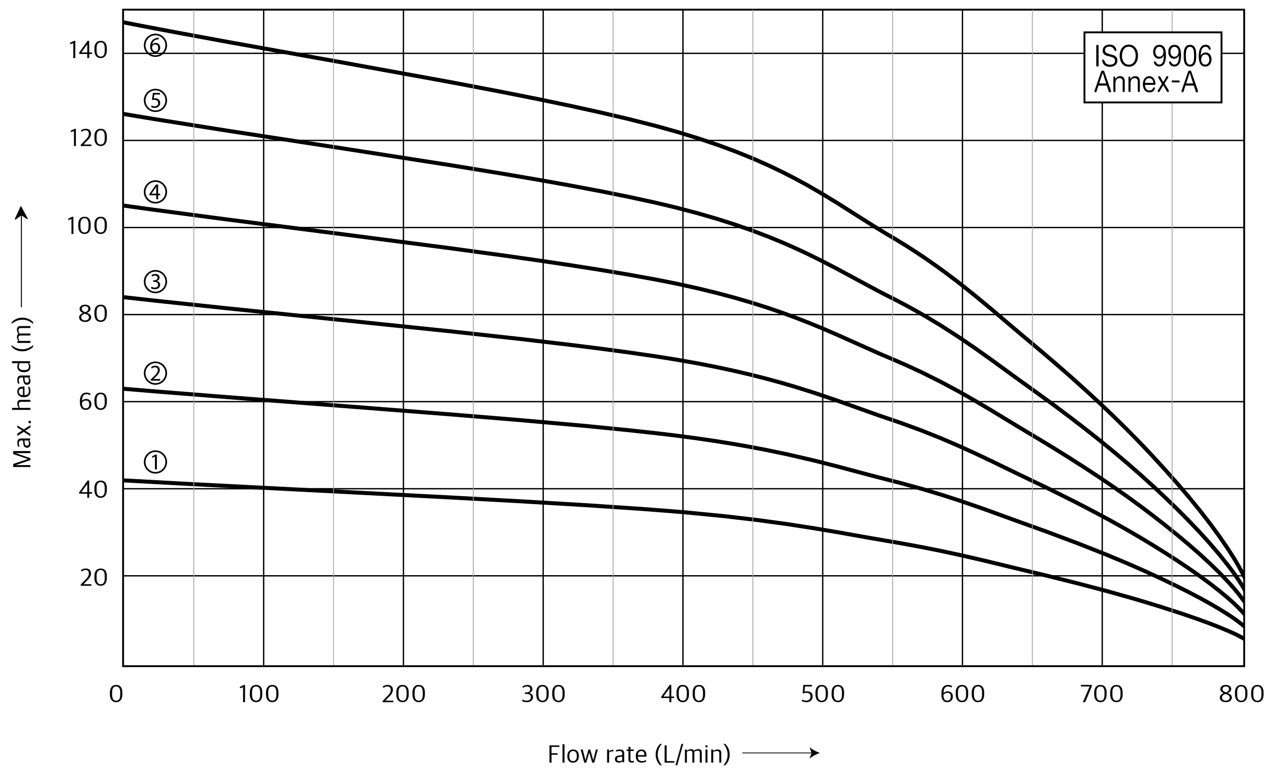


SPECIFICATION

	Model	Motor Voltage (V.AC)	Motor Output (HP)	Motor Current (A)	Stage	Max. head (m)	Suction, Discharge diameter (A)	Well diameter (mm)	Dimension(mm) diameter	Dimension(mm) Pump	Dimension(mm) Motor	Dimension(mm) Total length	Weight(kg) Pump	Weight(kg) Motor
①	SSP-17-5-2T	Three phase 220	7.5	Motor None	5	55	80	ø165	ø120	487	615	1102	9.0	49.0
	SSP-17-5-3T	Three phase 380		12.7										
②	SSP-17-7-2T	Three phase 220	10	Motor None	7	77				579	645	1224	11.0	53.0
	SSP-17-7-3T	Three phase 380		24.4										
③	SSP-17-9-2T	Three phase 220	15	Motor None	9	109				671	711	1382	13.0	59.0
	SSP-17-9-3T	Three phase 380		33.3										
④	SSP-17-10-2T	Three phase 220		Motor None	10	140				717	711	1428	14.0	59.0
	SSP-17-10-3T	Three phase 380		33.3										
⑤	SSP-17-12-2T	Three phase 220	20	Motor None	12	132				809	777	1586	16.0	66.0
	SSP-17-12-3T	Three phase 380		40.7										
⑥	SSP-17-14-2T	Three phase 220		Motor None	14	154				901	777	1678	18.0	66.0
	SSP-17-14-3T	Three phase 380		40.7										
⑦	SSP-17-17-2T	Three phase 220	25	Motor None	17	187				1039	841	1880	21.0	71.0
	SSP-17-17-3T	Three phase 380		49.2										
⑧	SSP-17-20-2T	Three phase 220	30	Motor None	20	220				1177	907	2084	25.0	79.0
	SSP-17-20-3T	Three phase 380		65.0										
⑨	SSP-17-22-2T	Three phase 220		Motor None	22	242				1269	907	2176	27.0	79.0
	SSP-17-22-3T	Three phase 380		65.0										

SSP-30 Series (Standard flow rate 500LPM)

PERFORMANCE CURVE



SPECIFICATION

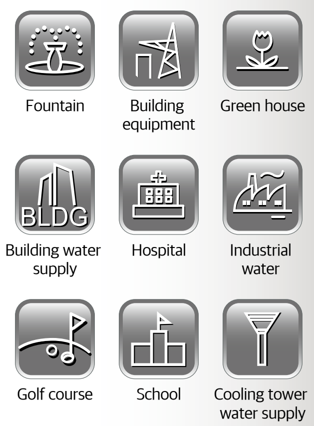
	Model	Motor Voltage (V.AC)	Motor Output (HP)	Motor Current (A)	Stage	Max. head (m)	Suction, Discharge diameter (A)	Well diameter (mm)	Dimension(mm) diameter	Dimension(mm) Pump	Dimension(mm) Motor	Dimension(mm) Total length	Weight(kg) Pump	Weight(kg) Motor
①	SSP-30-4-2T	Three phase 220	10	Motor None	4	52	80	ø165	ø120	617	645	1262	11.0	53.0
	SSP-30-4-3T	Three phase 380		24.4										
②	SSP-30-6-2T	Three phase 220	15	Motor None	6	79				797	711	1508	15.0	59.0
	SSP-30-6-3T	Three phase 380		33.3										
③	SSP-30-8-2T	Three phase 220	20	Motor None	8	105				977	777	1754	18.0	66.0
	SSP-30-8-3T	Three phase 380		40.7										
④	SSP-30-10-2T	Three phase 220		Motor None	10	131				1157	777	1934	22.0	66.0
	SSP-30-10-3T	Three phase 380		40.7										
⑤	SSP-30-12-2T	Three phase 220	25	Motor None	12	157				1337	841	2178	26.0	71.0
	SSP-30-12-3T	Three phase 380		49.2										
⑥	SSP-30-14-2T	Three phase 220	30	Motor None	14	184				1517	907	2424	30.0	79.0
	SSP-30-14-3T	Three phase 380		65.0										

Model selection guide

SQ6

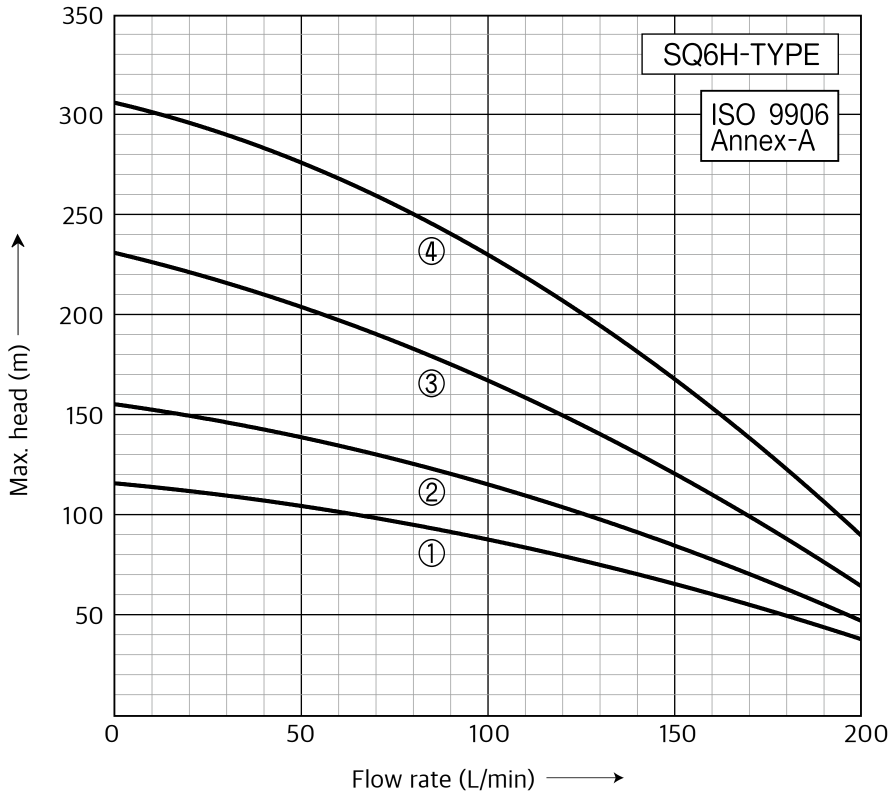
SQ	PUMP TYPE
6	WELL DIAMETER(6")
M H	MIDDLE LIFT HIGH LIFT

APPLICATION



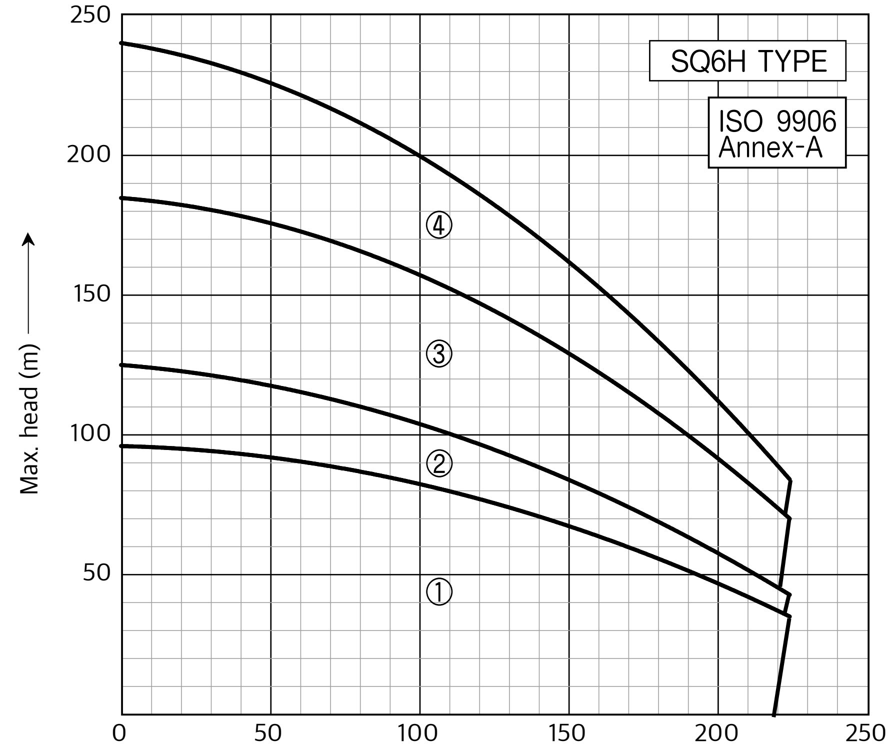
SQ6-Series

PERFORMANCE CURVE



① SQ6H-0732/3 ② SQ6H-1032/3 ③ SQ6H-1532/3 ④ SQ6H-2032/3

PERFORMANCE CURVE



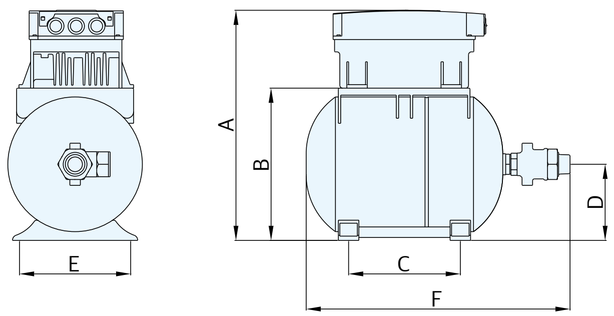
① SQ6M-0732/3 ② SQ6M-1032/3 ③ SQ6M-1532/3 ④ SQ6M-2032/3

SPECIFICATION

150A

Model	Voltage (V.AC)	Output KW (HP)	Stage	Max. head (m)	Rated flow rate[L/m(m³/day)] at Ht(m)										Discharge dia. (A)	Well diameter (mm)	Dimension (mm)		Weight (kg)	Current at full load (A)
					35m	56m	70m	84m	105m	126m	140m	175m	210m	245m			diameter	length		
① SQ6H-0732G/3G	Three phase 380	5.5(7.5)	9	116	203 (292)	171 (247)	142 (206)	152 (153)							80	ø165	ø145	71	12.7	24.6/14.9
② SQ6H-1032G/4G		7.5(10)	12	156		189 (272)	171 (247)	154 (222)	122 (176)	74 (107)								78	24.4	32.2/19.5
③ SQ6H1532G/5G		11(15)	18	236				194 (280)	171 (247)	154 (222)	122 (176)	74 (107)						98	33.3	47.4/28.7
④ SQ6H-2032G/6G		15(20)	24	208							171 (247)	147 (212)	120 (173)	77 (111)				109	40.7	60.6/36.7
⑤ SQ6M-0732G/7G	Three phase 380	5.5(7.5)	6	96	224 (323)	180 (260)	142 (206)								80	ø165	ø145	67	12.7	24.6/14.9
⑥ SQ6M-1032G/8G		7.5(10)	8	120	231 (333)	203 (292)	175 (252)	150 (217)										73	24.4	32.2/19.5
⑦ SQ6M-1532G/9G		11(15)	12	180			224 (323)	203 (292)	189 (272)	161 (232)	133 (192)							91	33.3	47.4/28.7
⑧ SQ6M-2032G/10G		15(20)	16	240					203 (292)	189 (272)	175 (252)	133 (192)						98	40.7	60.6/36.7

SI-Series

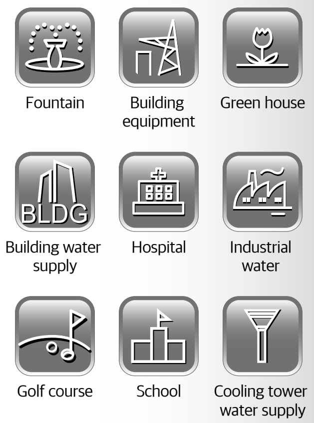


Model selection guide

SI-11-32-D-12L

S	SUBMERSIBLE
I	INVERTER
1	MOTOR VOLTAGE : 1(SINGLE PHASE)
1	MOTOR OUTPUT : 1(0.5~1.5HP), 3(2~3HP)
3	MOTOR VOLTAGE : 3(THREE PHASE)
2	MOTOR OUTPUT : 2(1~2HP), 3(3HP)
D	D : DIRECT, H : HORSE
12L	NITROGEN TANK CAPACITY : 12, 24L

APPLICATION



FEATURE

Low noise, Easy installation!

MAINTAIN CONSTANT PRESSURE

- High efficiency
- Safety device for pump & motor

Protective function

1. Sensing low water level and low load
2. Prevention against Thunderbolt and Surge
3. Prevention against low voltage
4. Prevention against circuit disconnection, short-circuit

SPECIFICATION

	Model	Dimension A	B	C	D	E	F	Nitrogen tank volume (L)	Adaptable deep submersible Pump (HP)	Connection type	Power: Voltage	Power: Output Voltage
①	SI-11-31-D-12L	395	260	190	130	190	450	12	Single phase/ Three phase 220V (Less than 1HP)	D: Direct	Single phase 220V	Single phase/ Three phase 220V
②	SI-11-31-D-24L	455	320	260	160	240	520	24				
③	SI-13-33-D-12L	395	260	190	130	190	450	12	Single phase/ Three phase 220V (Less than 3HP)			
④	SI-13-33-D-24L	455	320	260	160	240	520	24				
⑤	SI-11-31-H-12L	395	260	190	130	190	450	12	Single phase/ Three phase 220V (Less than 1HP)	H: Horse		
⑥	SI-11-31-H-24L	455	320	260	160	240	520	24				
⑦	SI-13-33-H-12L	395	260	190	130	190	450	12	Single phase/ Three phase 220V (Less than 3HP)			
⑧	SI-13-33-H-24L	455	320	260	160	240	520	24				