

Self Priming Pumps

SP



Applications

- Process
- Sump drainage
- Chemical industry
- Other Various industries

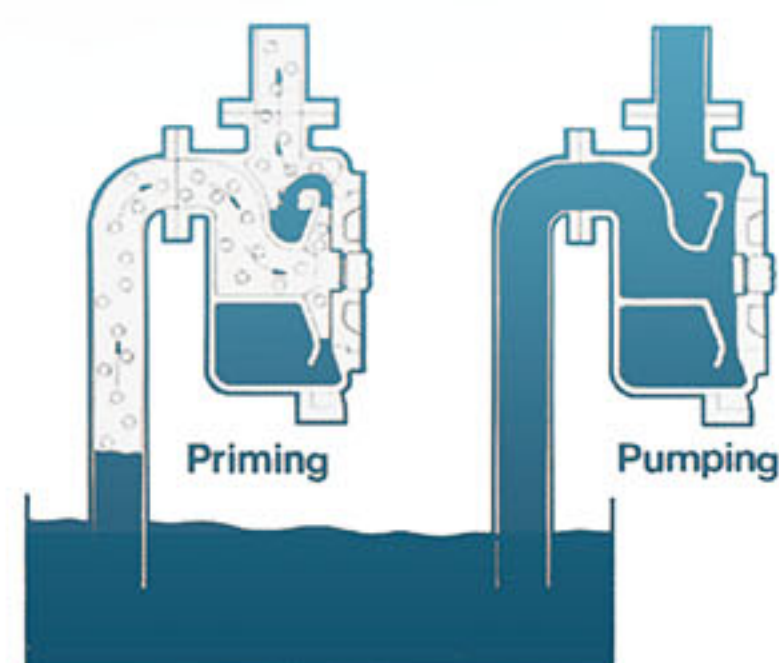
Feature

- ☑ Completely standardization for wide application
- ☑ Foot support and back pull-out design
- ☑ Good efficiency
- ☑ Heavy and sturdy construction

Ratings

Capacity	Up to 6m ³ /min (1,585 US GPM)
Head	Up to 50m (164ft)
Discharge Pressure	Up to 10kgf/cm ² (142 PSIG)
Allowable Suction Pressure	Up to 5 kgf/cm ² (71 PSIG)
Revolution 60Hz (50Hz)	1750 or 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature	-50°C ~ 177°C (-58°F ~ 350.6°F)
Nozzle Rating	Steel : ANSI CLASS 150, Iron : ANSI CLASS 125
Nozzle Facing	Steel : RF, Iron : FF
Nozzle Location	End Suction : Top Discharge
Impeller Type	OPEN
Seals	Conventional Packing or Mechanical Seal

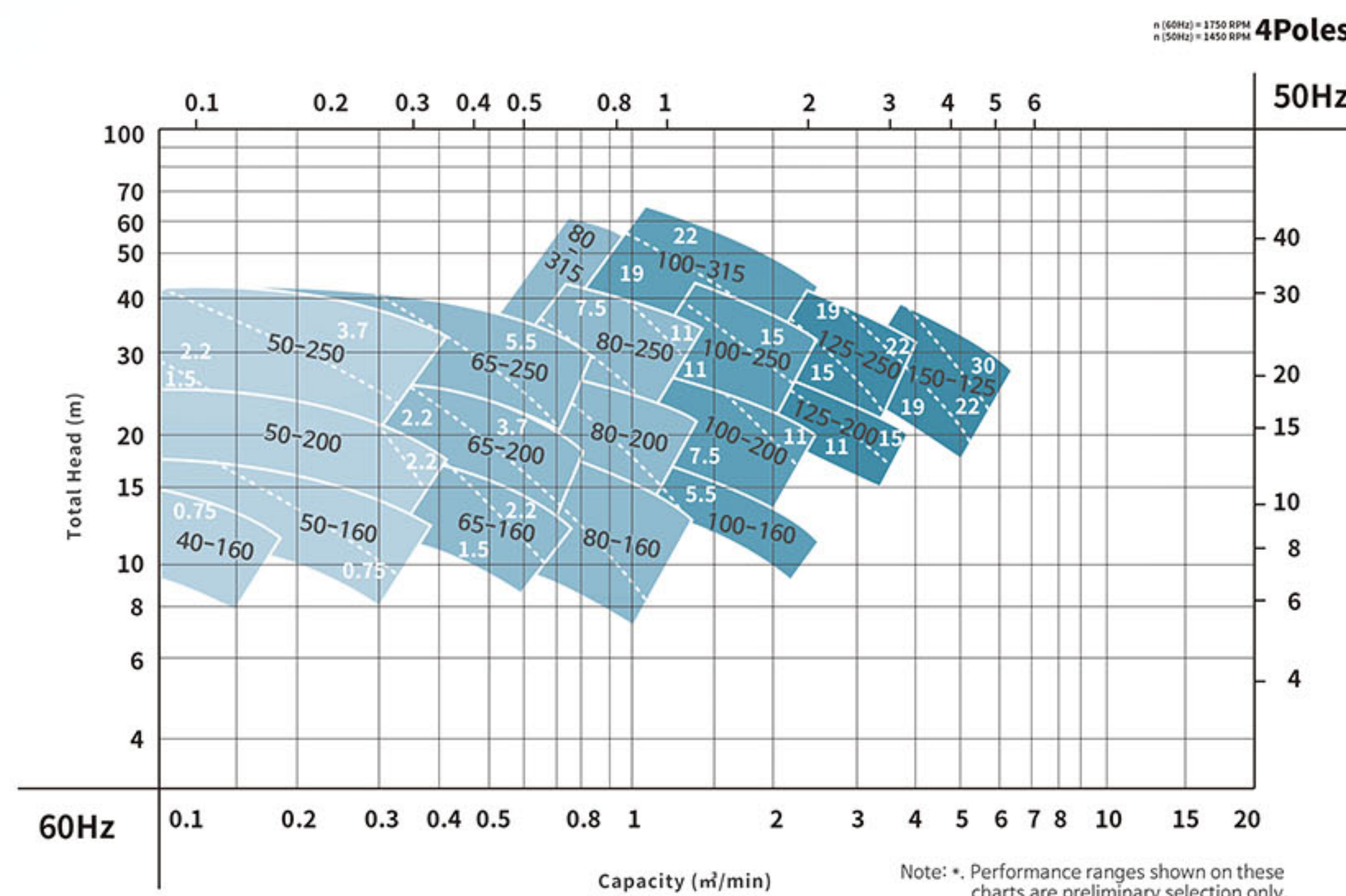
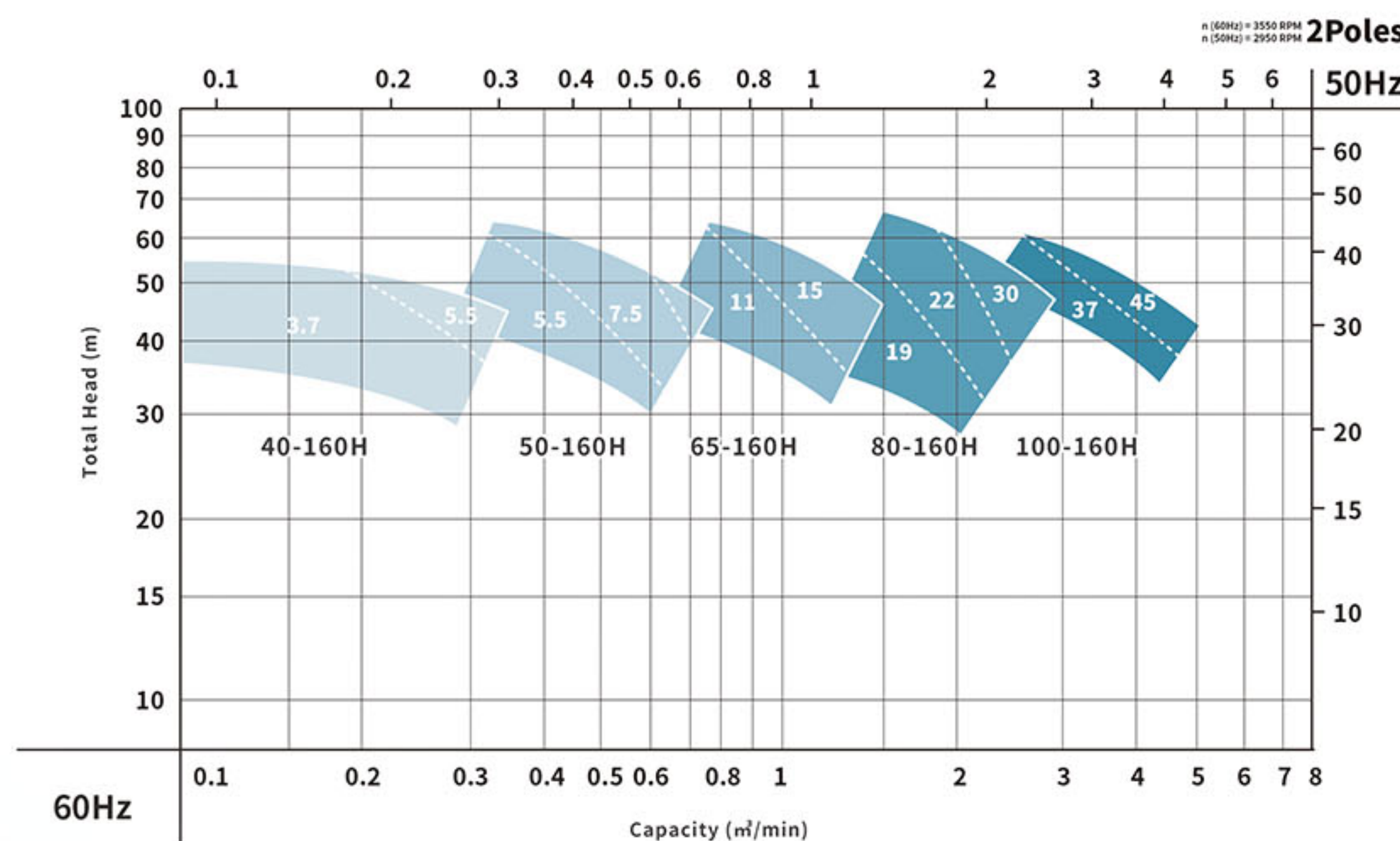
Reliable Self-Priming Operation



- ☑ Priming and Air Separation Accomplished Within Casing

Twin volute design exhausts suction with only an initial priming charge of liquid in casing. During priming cycle, lower volute functions as intake while upper volute discharge liquid and entrained air into separation chamber. Air is separated and expelled through pump discharge while liquid recirculates into lower volute. Once air is completely exhausted from suction and liquid fills impeller eye, pump is primed and functions as discharge. Casing is designed so that an adequate volume of liquid for repriming is always retained in pump even if liquid is allowed to drain back to source or supply from discharge and suction.

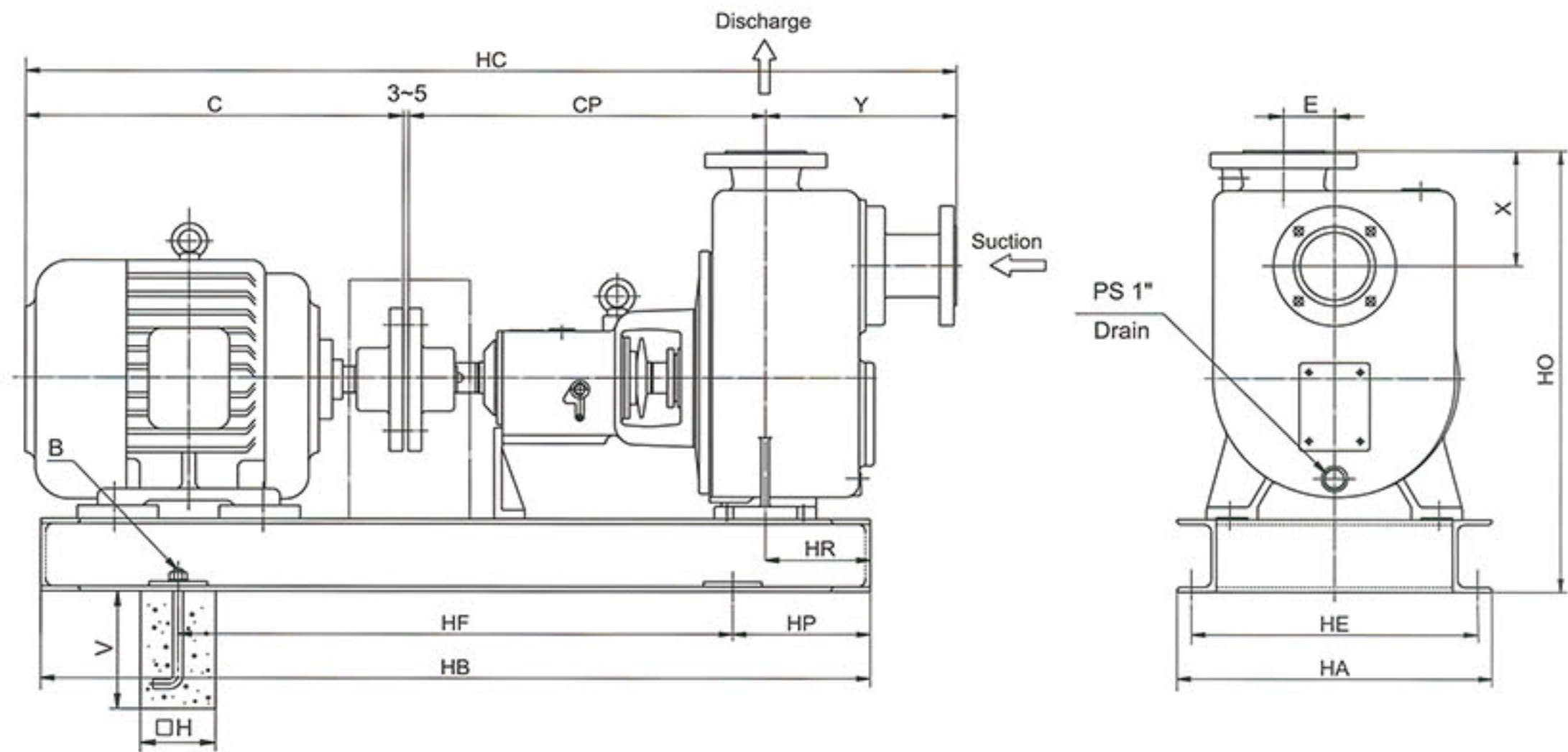
Selection Charts



Note: *, Performance ranges shown on these charts are preliminary selection only.

Model. SP

● Installation Dimension



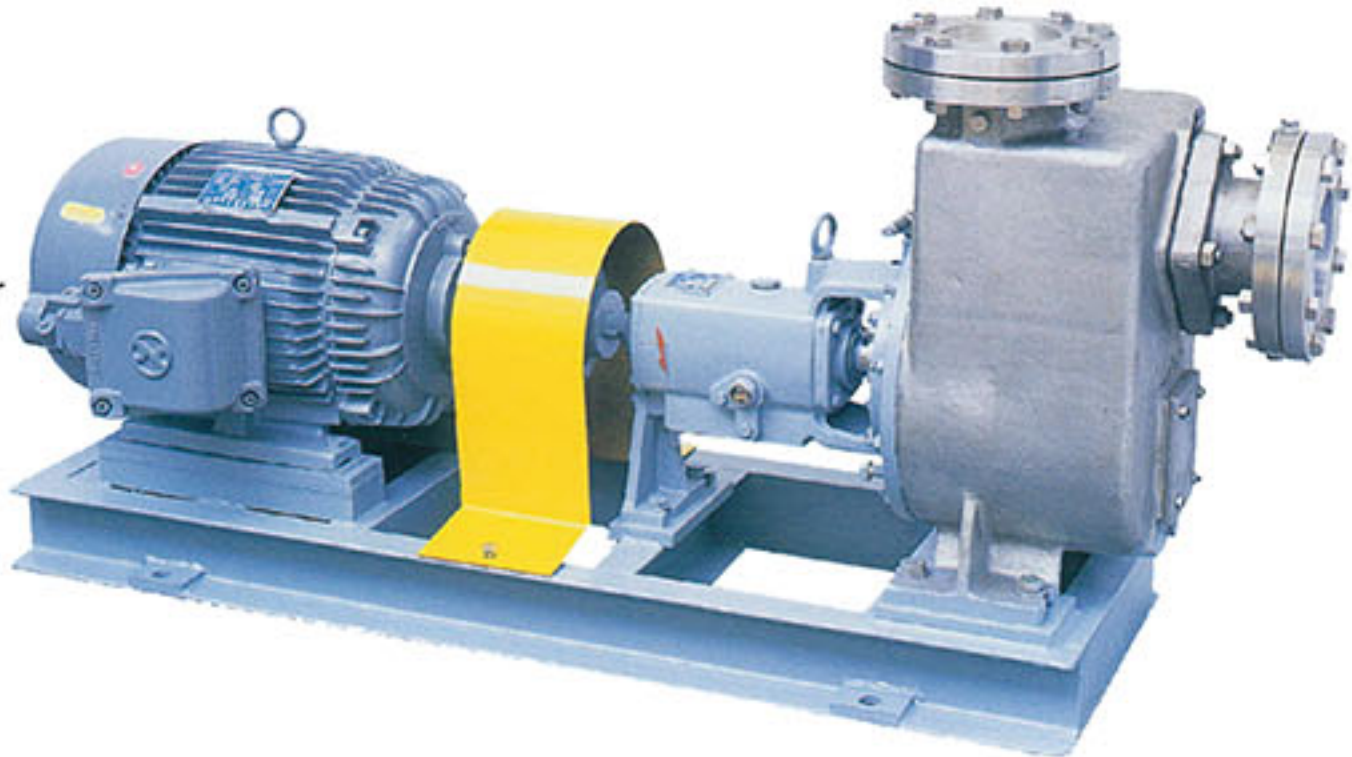
Spec	Pump and Motor										Baseplate						Anchor Bolt			
	Suc	Dis	Frame	kW	HC	C	CP	Y	E	X	HR	HF	HP	HB	HE	HA	HO	B	H	V
50-200	50	50	112S	2.2	1121	356	510	250	57	160	110	590	155	900	290	320	540	4-M16x250L	150	250
50-250	50	50	132M	7.5	1222	482	510	225	100	155	95	660	170	1000	350	380	585	4-M16x250L	150	250
65-200	65	65	112M	3.7	1147	382	510	250	57	160	110	630	160	950	290	320	540	4-M16x250L	150	250
80-315	80	80	160L	15	1472	593	560	270	80	180	110	830	210	1250	390	430	705	4-M16x250L	150	250
100-250	100	100	112M	3.7	1172	382	515	270	80	175	110	630	160	950	400	430	640	4-M16x250L	150	250
100-315	100	100	160L	15	1472	593	560	270	80	180	110	830	210	1250	390	430	705	4-M16x250L	150	250
125-250	125	125	180L	22	1520	685	565	265	75	195	110	830	210	1250	390	430	715	4-M16x250L	150	250

Note: *. Dimensions are in mm.
*. The content of this catalogue is to change without notice.

● Photo Resources

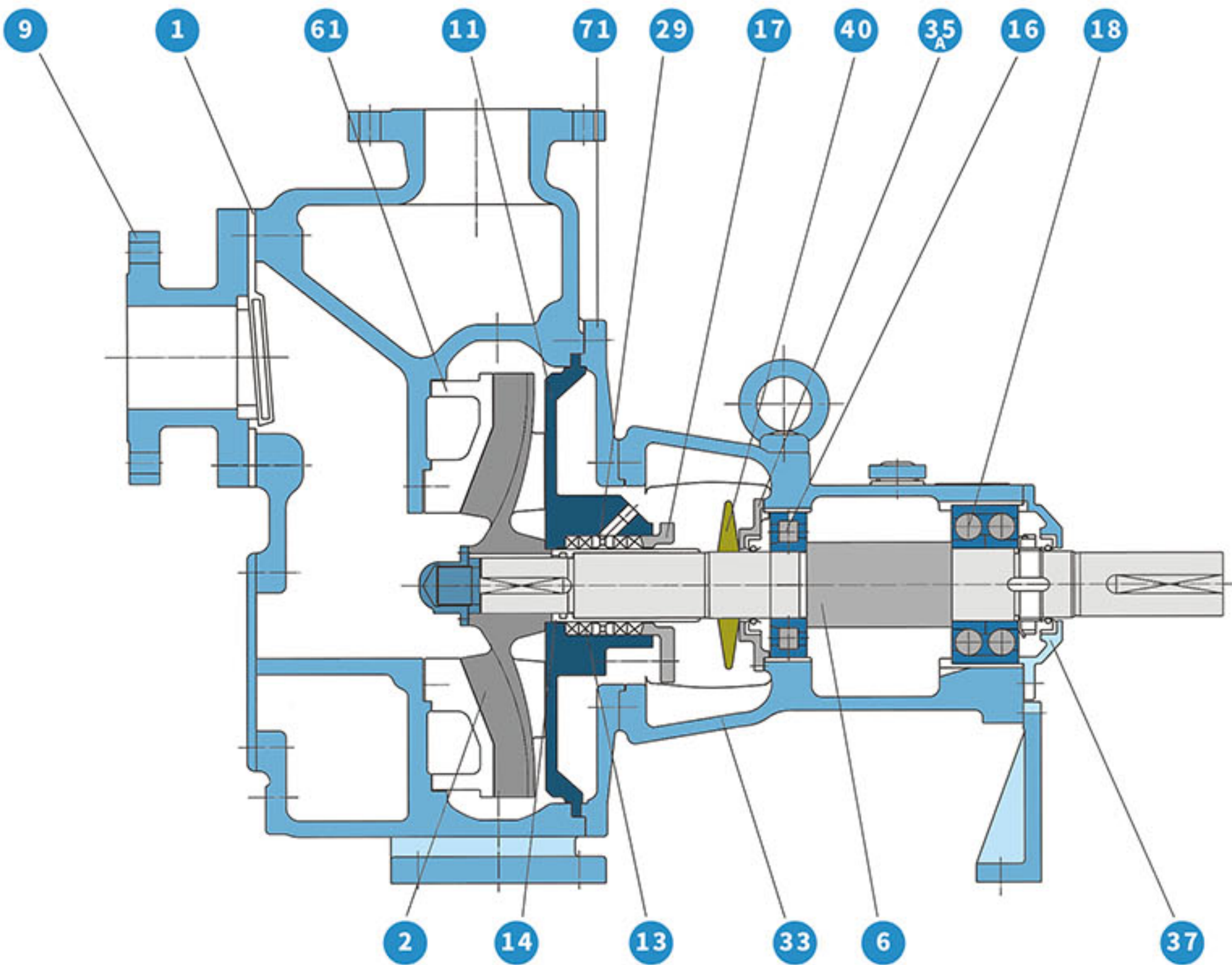
Self Priming Pumps
for Water purification center

- Service : Portable drainage pump
- Capacity : 180 m³/min
- Head : 15m
- Power : 22KW



Model. SP

● Parts List and Materials



No	Name of part	Material		
1	Casing	SSC13	SSC14	GC200
2	Impeller	SSC13	SSC14	SSC13
6	Shaft	STS304	STS316	SM45C
7	Wearing Ring	SSC13	SSC14	GC200
11	Stuffing Box Cover	SSC13	SSC14	GC200
13	Packing	TEFLON	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS316	STS304
16	Inboard Bearing	STEEL	STEEL	STEEL
17	Packing Gland	SSC13	SSC14	GC200
18	Outboard Bearing	STEEL	STEEL	STEEL
29	Lantern Ring	SSC13	SSC14	TEFLON
33	Frame	GC200	GC200	GC200
35A	Inboard Bearing Cover	GC200	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200	GC200
40	Deflector	NBR	NBR	NBR
61	Front Plate	SSC13	SSC14	SSC13
71	Adapter	GC200	GC200	GC200

Note: *. Other Materials are available on request