

**HIGH QUALITY PRODUCT**



**AQUASYSTEM**

**AQUA**  
SYSTEM CO.,LTD.

**PMP** TYPE

Seal-less magnetic drive pump

—— Inlet/outlet one-piece design ——

Newly upgraded self-circulating cooling structure



# PMP 30RM-100RM



### Non-contact structure

Precisely setting the position of the passive magnet and the active magnet. Even in idling, bearing will not contact with the rear thrust ring. Inhibits the friction heat and ensures the lubrication.



### Compact and strong

Light shape and internal parts standardization, easy maintenance. Pump body with reinforcing ribs, strength and excellent pressure resistance.



### Innovative design, no leakage

Front cover newly designed, union type connection is convenient, no leakage. One-piece design impeller, high efficiently and quietly.

### Model and code

**PMP - 25 25 3 C V R U 5**  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ② In-Outlet : 25-1"
- ③ Power : 25- 250W, 18-180W
- ④ Phase : 1-Single-phase, 3-Three-phase
- ⑤ Pump body material:  
C-CFRPP, K- PVDF, E-ETFE
- ⑥ Rubber material :  
V-VITON, E-EPDM ,N-NBR
- ⑦ Bearing material : A-995 Ceramic,  
C-Carbon, S-SIC ,R-PTFE

**PMP - 100 RM C V R 3 5**  
① ⑩ ⑪ ⑤ ⑥ ⑦ ④ ⑨

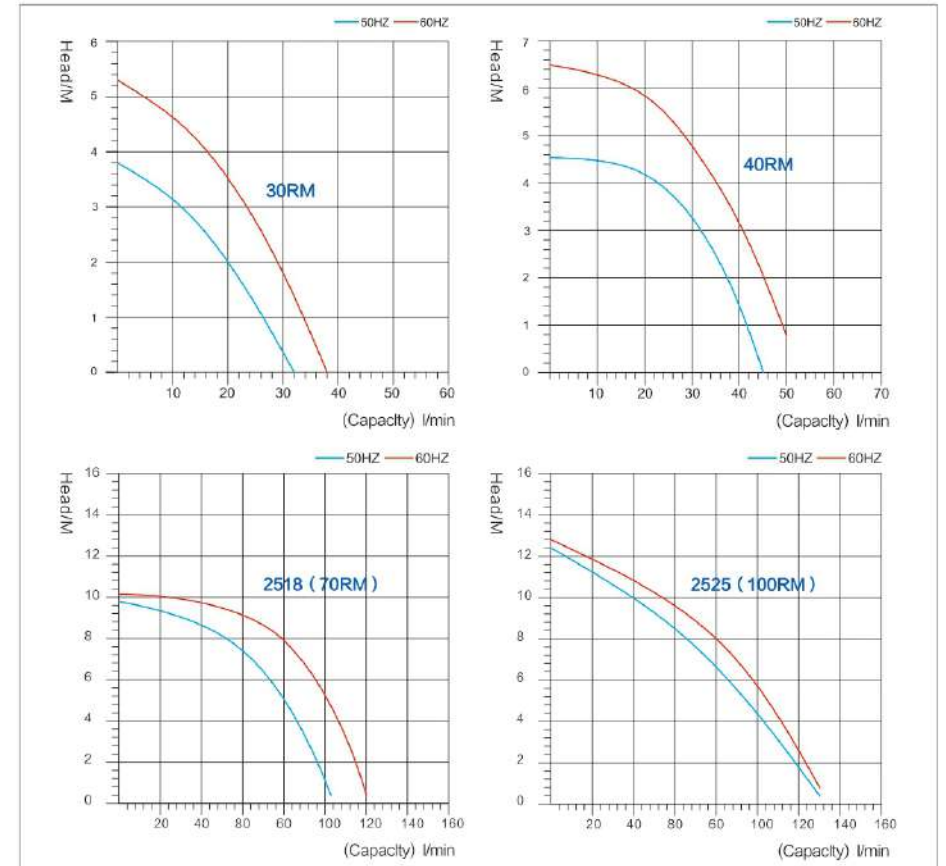
- ⑧ Piping form : U-Union , M-Thread,  
H-Intubation
- ⑨ Frequency : 5-50HZ, 6-60HZ,
- ⑩ Power : 100-250W, 70-180W,  
40-65W, 30-45W
- ⑪ Access mode : RU-Union, RM-Thread,  
R-Intubation

### Performance data

Parameter	In/outlet (inch)	Phase	Power (W)	50Hz		60Hz		Weight (KG)	Temp (Celsius)
				Max.F	Max.H	Max.F	Max.H		
PMP-2518	1"/1"	1φ/3φ	180	105	9.8	120	10.2	8.5	GFRPP: 0-75 CFRPP: 0-80 PVDF: 0-90 ETFE+CF: 0-100
PMP-2525	1"/1"	1φ/3φ	250	130	12.4	130	12.8	10	
PMP-30RM	3/4"/3/4"	1φ	45	32	3.8	38	5.4	4.5	
PMP-40RM	3/4"/3/4"	1φ	65	45	4.6	52	6.5	4.5	
PMP-70RM	1"/1"	1φ/3φ	180	105	9.8	120	10.2	8	
PMP-100RM	1"/1"	1φ/3φ	250	130	12.4	130	12.8	9.5	

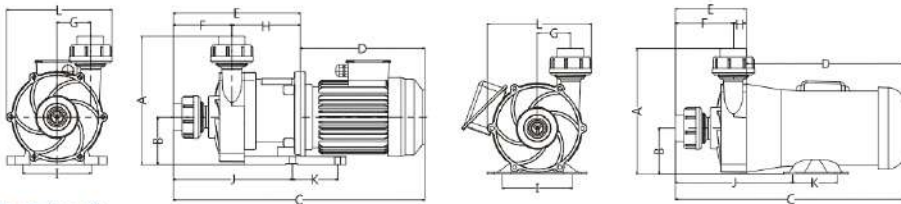
Note: Measure with water of 20°C. F means Flow(L/min), H means Head(m)

### Performance curve





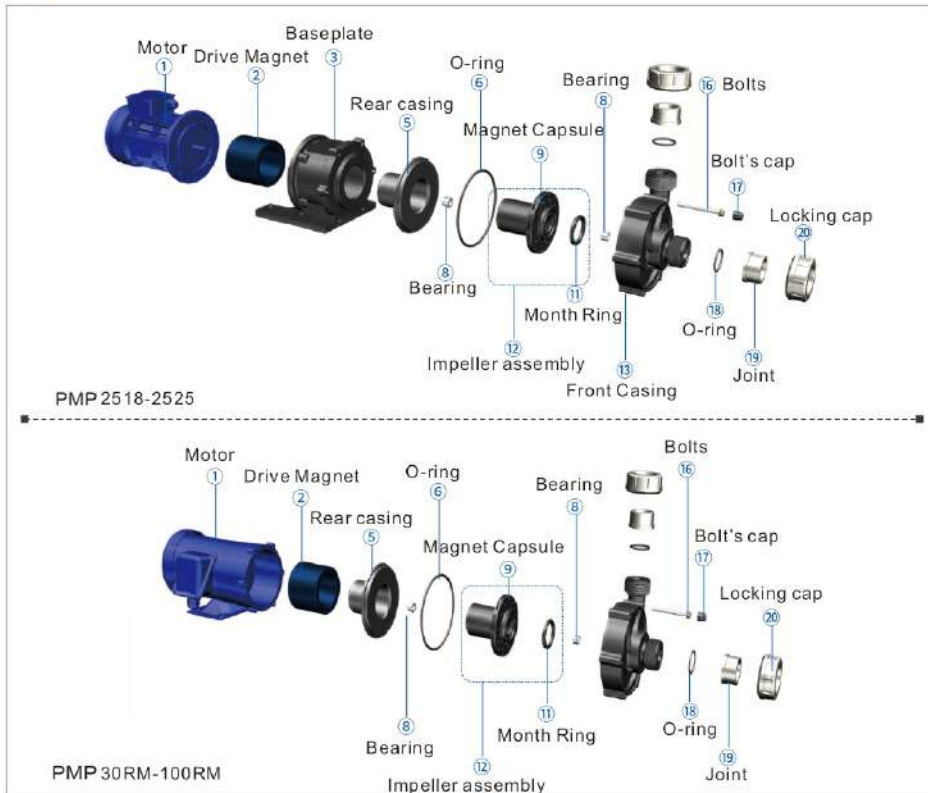
## Installation size



Unit (mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L
PMP-2518	202	74	400	203	197	94	52	103	105	185	70	160
PMP-2525	202	74	400	203	197	94	52	103	105	185	70	160
PMP-30RM	130	57	275	205	70	52	31	17	100	170	40	104
PMP-40RM	130	57	275	205	70	52	31	17	100	170	40	104
PMP-70RM	202	74	372	259	113	94	52	19	110	190	70	160
PMP-100RM	202	74	372	259	113	94	52	19	110	190	70	160

## Exploded view



## PMP 1/2HP-5HP



### Non-contact structure

Precisely setting the position of the passive magnet and the active magnet. Even in idling, bearing will not contact with the rear thrust ring. Inhibits the friction heat and ensures the lubrication.

### Strong structure and high efficiency

Pump body with reinforcing ribs, strength and durable. One-piece design impeller high efficiency, quietly and reliability.

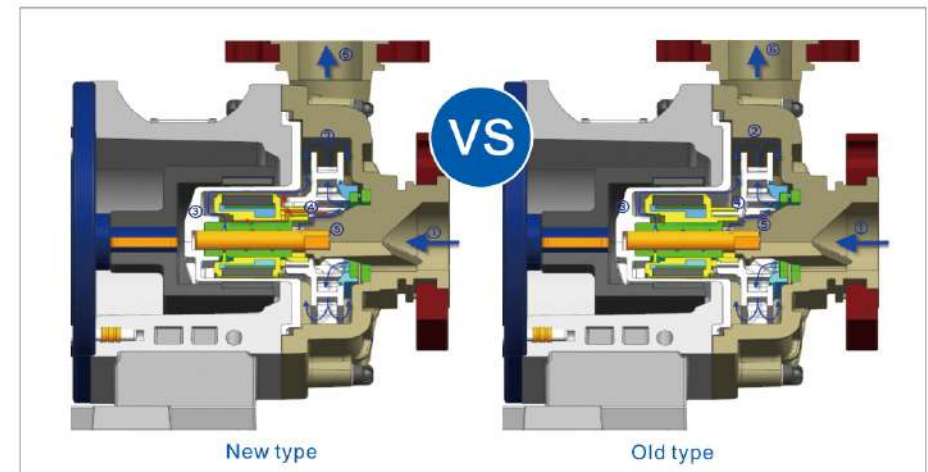
### Innovative design, no leakage

Front cover with one-piece design inlet and outlet flange, no leakage. The traditional flange adopt thread or hot melt seal, may leak under high temperature and high pressure application.

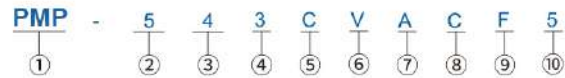
### Upgrade the self-circulation cooling structure

Except Impeller and magnet capsule with heat dissipation hole, Shaft sleeve and magnet capsule also with heat dissipation hole which can make the liquid around the pump shaft and bearing circulate under the action of centrifugal force and impeller. Dissipate the heat by friction, avoid deformation and melting.

### Comparison between new and old design

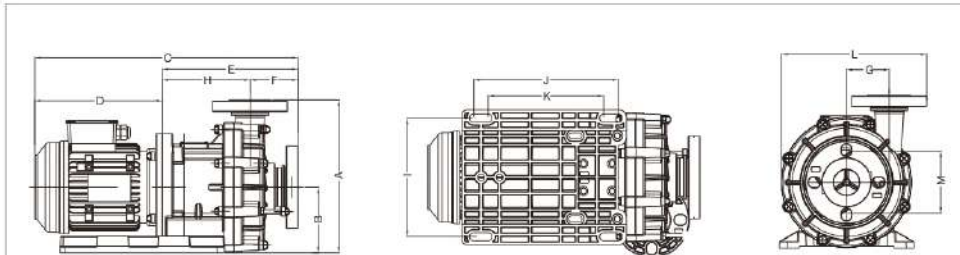


### Model and code



- ① Type
- ② Inlet(inch) : 6-2.5(65), 5-2(50), 4-1.5(40)
- ③ Outlet(inch) : 6-2.5(65), 5-2(50), 4-1.5(40)
- ④ Power: 0-1/2HP, 1-1HP, 2- 2HP, 3-3HP, 5-5HP
- ⑤ Pump body material : C-CFRPP, E-ETFE, P-GFRPP, K-PVDF
- ⑥ Rubber material : E-E PDM, V-VITON, F-FKM
- ⑦ Axis material : A-995Ceramic, S-SIC
- ⑧ Bearing material : A-995 Ceramic, C-Carbon, S-SIC, R-PTFE
- ⑨ Piping form : F-Flange, M-thread
- ⑩ Frequency : 5- 50HZ, 6-60HZ

### Installation size



Unit (mm)

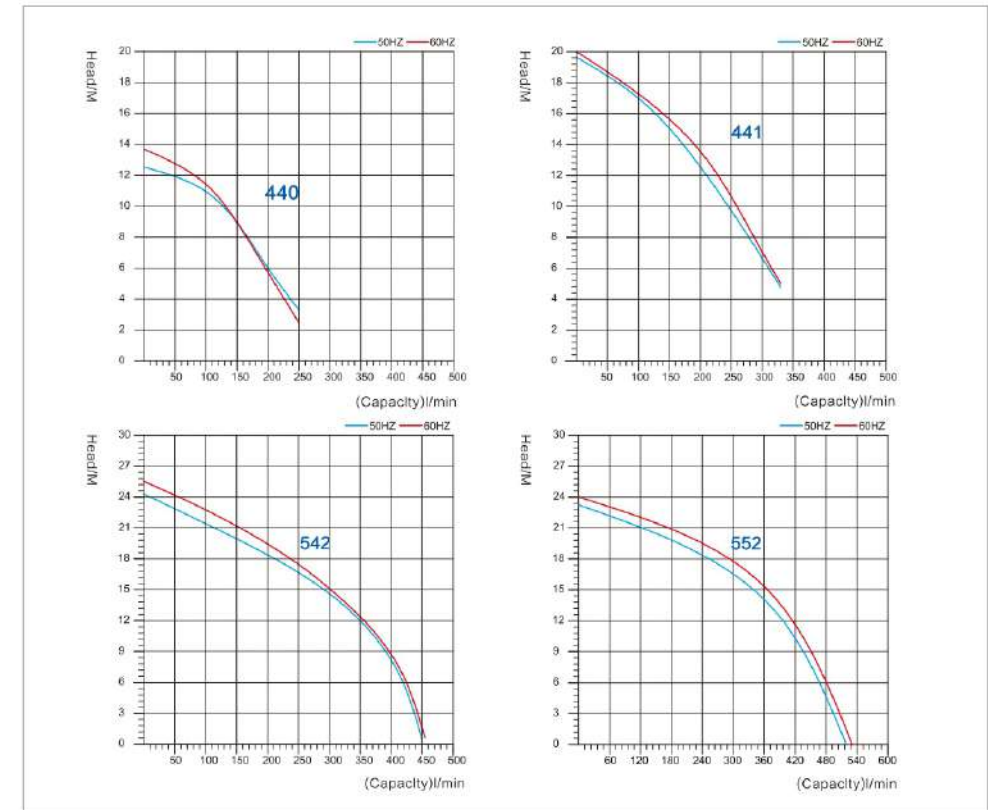
Model	A	B	C	D	E	F	G	H	I	J	K	L	M
PMP-440	226	95	448	219	230	87.5	54.5	142.5	163	173	127	221	103
PMP-441	258	114	493.5	236	257.5	105.5	71.5	152	163	173	127	248	103
PMP-542	285	120	530	275	255	85	80	170	221	269	215	260	115.5
PMP-552	285	120	530	275	255	85	80	170	221	269	215	260	115.5
PMP-543	285	120	530	275	255	85	80	170	221	269	215	260	115.5
PMP-553	285	120	530	275	255	85	80	170	221	269	215	260	115.5
PMP-653	304	127	534	275	259	89	80	170	221	269	215	275	138
PMP-663	304	127	551	275	276	103	80	173	221	269	215	295	138
PMP-545	285	120	530	325	265	85	80	180	221	269	215	275	115.5
PMP-555	285	120	530	325	265	85	80	180	221	269	215	275	115.5
PMP-655	330	161	590	325	265	89	80	176	221	269	215	275	138
PMP-665	337	161	613	325	288	103	80	185	221	269	215	295	138

### Performance data

Parameter	In/ outlet	Phase	Power		50Hz		60Hz		Weight (KG)	Temp (Celsius)
			(KW)	(HP)	Max.F	Max.H	Max.F	Max.H		
PMP-440	1.5"/1.5"	3φ	0.37	1/2	245	12.5	250	13.5	16	GFRPP:0-75 CFRPP:0-80 PVDF:0-90 ETFE+CF:0-100
PMP-441	1.5"/1.5"	3φ	0.75	1	325	19.5	330	20	21	
PMP-542	2"/1.5"	3φ	1.5	2	450	24.5	460	25.5	30	
PMP-552	2"/2"	3φ	1.5	2	510	23	520	24	30	
PMP-543	2"/1.5"	3φ	2.2	3	560	31	590	32	31	
PMP-553	2"/2"	3φ	2.2	3	660	29	710	31	31	
PMP-653	2.5"/2"	3φ	2.2	3	580	24	600	24	31	
PMP-663	2.5"/2.5"	3φ	2.2	3	1000	15.5	1030	18.5	31	
PMP-545	2"/1.5"	3φ	3.7	5	580	35	650	39	45	
PMP-555	2"/2"	3φ	3.7	5	733	33	815	43	45	
PMP-655	2.5"/2"	3φ	3.7	5	950	27.5	1050	29.5	45	
PMP-665	2.5"/2.5"	3φ	3.7	5	1210	22.5	1240	24	45	

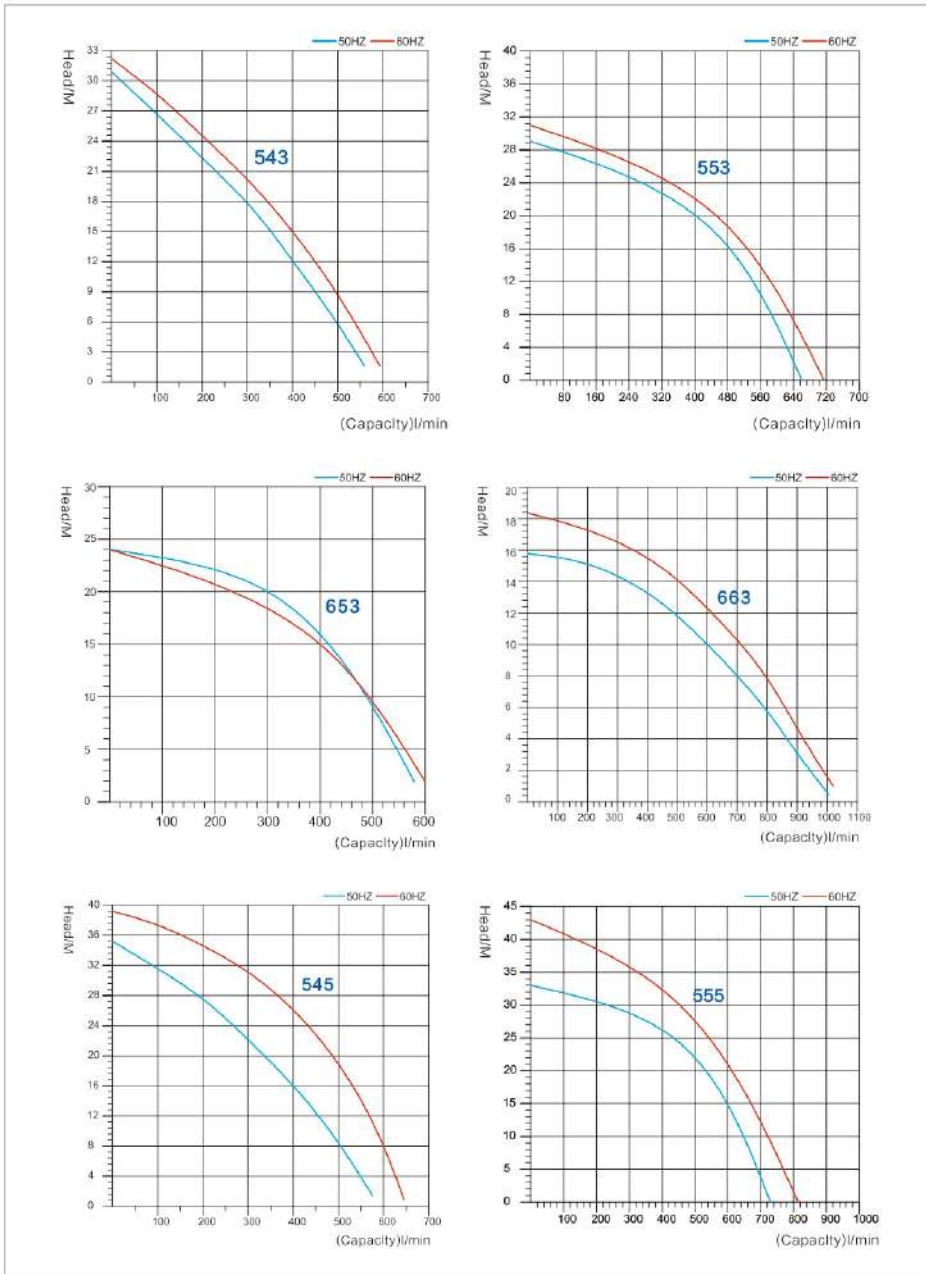
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### Performance curve

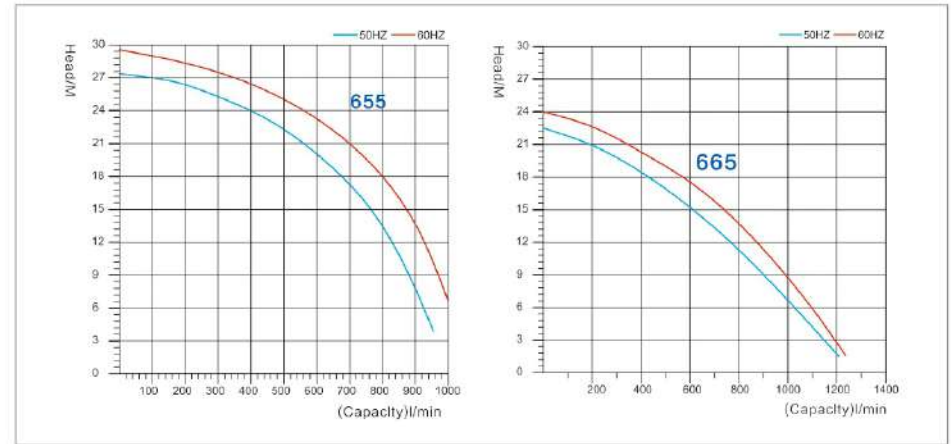




Performance curve



Performance curve



Exploded view

PMP 1/2HP- 5HP



- |                   |                 |                |                       |
|-------------------|-----------------|----------------|-----------------------|
| 1. Motor          | 2. Drive Magnet | 3. Bracket     | 4. Baseplate          |
| 5. Rear casing    | 6. O-ring       | 7. Shaft       | 8. Bearing            |
| 9. Magnet Capsule | 10. Impeller    | 11. Month Ring | 12. Impeller assembly |
| 13. Front Casing  | 14. Flange      | 16. Bolts      | 17. Bolt's cap        |