

Magnet pump

[For chemical and sea water]

International protection(IP44)

Model name

PMD

Magnet type

0531	1561
221	1563
371	2571
421	2573
581	4033
641	7533
643	

Image photograph



PMD-2573

PMD-4033

Features of new models

- Efficiency About 35% improved
- Electric power costs About 20% can be reduced
- Noise About less 5dB than conventional models
- Vibration About 50% less than conventional models
- Small and light About 10% lighter than conventional models

Application

- Circulation of sea water
- Culture tank and water tank
- Waste water treatment equipment
- Drain chemical liquid
- Aquarium equipment
- PCB equipment
- Solar heating system
- Filter
- Bubble bath
- Etching equipment
- Photo development equipment
- Transfer of chemical liquid
- Cooling of NC machine
- Ice maker
- Machines for plating etc.

Characteristics

- Magnet type
- Totally enclosed indoor type motor
- Corrosion resistance performance
- Small size and excellent performance

Features

- Long life
- Complete liquid leakage free
- Excellent corrosion resistance
- Varieties of models

Structure with very simple components prevents liquid leakage and corrosion.



◆ Front-casing with hose-connection



Integral molding by polypropylene mixed with filler to increase mechanical strength.



◆ Front-casing with screw-connection



Integral molding as well as hose-connection type. Straight screw according to diameter as standard. Simple and compact connection to piping.



◆ Impeller

Material is polypropylene or PPE and permanent magnet is contained inside. Teflon or Carbon bearing is inserted between impeller and shaft. Shape of impeller is open or closed or semi-closed type, depending on performance characteristics.

◆ Back casing

Integral molding by polypropylene or PPE as well as front-casing.

◆ Drive magnet

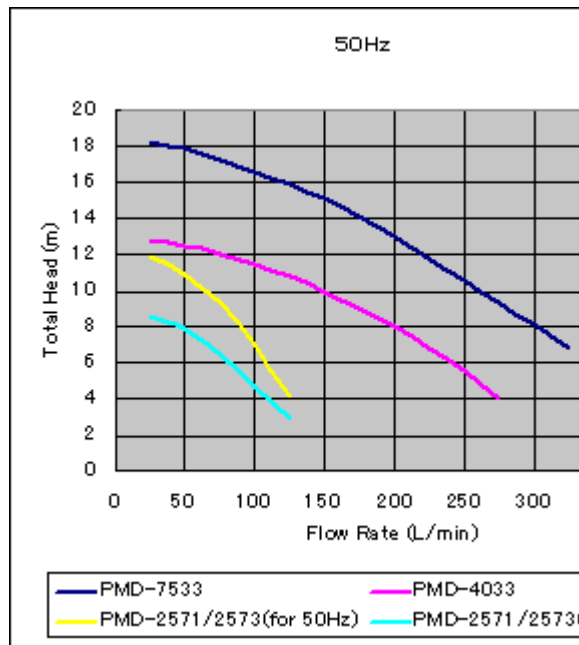
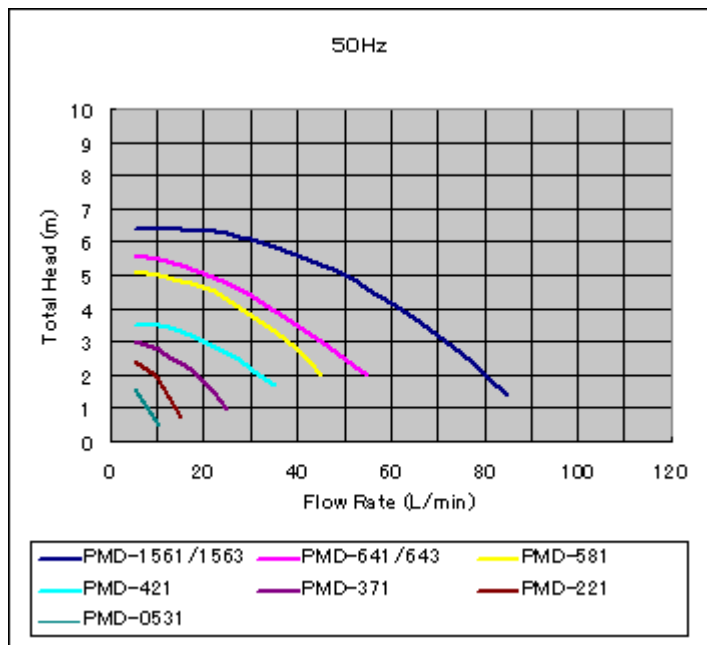
Made of permanent magnet magnetized from 6 poles to 10 poles. Impeller is rotated by magnet from outside of back casing.

■ Materials for pump parts

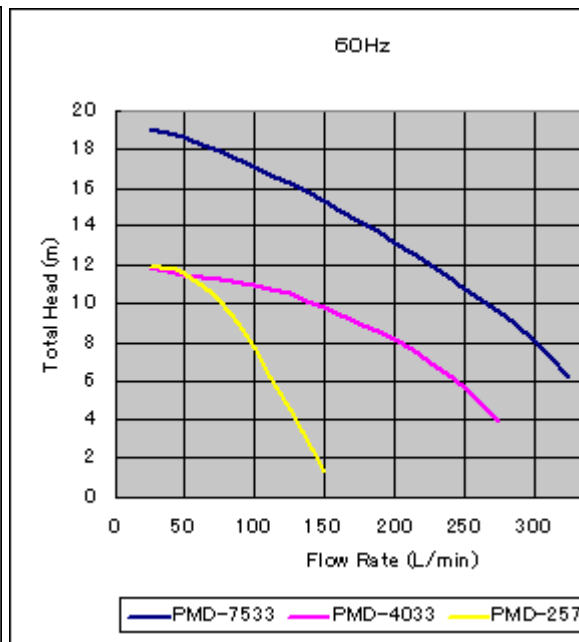
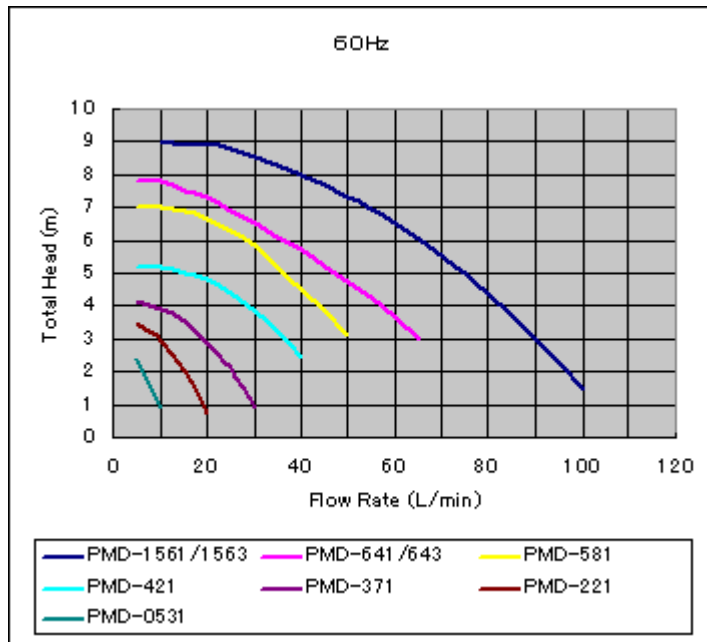
Part name	For chemical liquids and sea water
Casing	Poly-Propylene with glass fiber
Back casing	Poly-Propylene with glass fiber
Impeller	Poly-Propylene with glass fiber

Pump shaft	Ceramic
Thrust washer	Ceramic
Bearing	Teflon
O-ring	FKM (Fluoro rubber)

■ Performance curve (50Hz)



■ Performance curve (60Hz)



■ Specification : Last figure of model name : 1 means single phase and 3 means three phase.

Item Model	Diameter		Maximum		Rated Flow Rate	Motor			W
	Hose	Screw	Flow Rate	Head	50Hz/60Hz	Rated Output	PowerConsumption	Voltage	
	A(mm)	B(G-)	L/min	m	m-L/min	W	W	V	
PMD-0531	14	-	10/12	1.7/2.5	1-6 / 1-9	4/6	18/20	100	
PMD-221	14	3/4	15/20	2.5/3.6	1-13 / 2-13	10/15	22/30	100	
PMD-371	17	3/4	25/28	3.0/4.2	2-18 / 3-19	15/20	32/43	100	
PMD-421	20	3/4	35/42	3.5/5.1	3-21 / 4-26	35/45	55/75	100	
PMD-581	20	3/4	43/48	5.1/6.8	3-35 / 5-35	40/60	70/110	100	
PMD-641	26	1	62/72	5.7/8.0	3-50 / 5-50	65/100	105/155	100	
PMD-643	26	1	62/72	5.7/8.0	3-50 / 5-50	65/100	100/150	200	
PMD-1561	26	1	87/100	6.3/8.9	4-60 / 6-63	120/160	160/230	100	
PMD-1563	26	1	87/100	6.3/8.9	4-64 / 6-70	120/160	160/240	200	
PMD-2571 (50Hz)	26.5	1	125/-	12.3/-	8-75 / -	250/-	430/-	100	
PMD-2571 (60Hz)	26.5	1	115/150	8.6/12	4-90 / 8-80	150/250	270/410	100	
PMD-2573 (50Hz)	26.5	1	125/-	12.3/-	8-75 / -	250/-	410/-	200	
PMD-2573 (60Hz)	26.5	1	115/150	8.6/12	4-90 / 8-80	150/250	260/400	200	
PMD-4033 (50Hz)	40	1·1/2	300/-	12.3/-	10-140 / -	400/-	540/-	200	1
PMD-4033 (60Hz)	40	1·1/2	250/300	8.2/11.6	6-120 / 10-140	250/400	450/700	200	1
PMD-7533 (50Hz)	40	1·1/2	380/-	18.2/-	12-210 / -	750/-	901/-	200	2
PMD-7533 (60Hz)	40	1·1/2	330/380	13.4/19	7-220 / 12-225	450/750	601/1000	200	2

Conditions of liquids: Ambient Temp: 0 to 60°C Viscosity: below 30mm²/s, Specific Gravity: below 1.1

Note (1) Slurry liquids reduce life of pump. (2) Pressure shall be less than 100kPa. (3) Indoor use.

(4) Shock pressure and abnormal pressure etc will damage the pump part.

(5) Voltage can be adjusted to customer's requirement.

BACK

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