

OWNER'S MANUAL

FLOW PERFORMANCE

Our pump, extremely robust, is designed with solid craftsmanship. It is widely used in water fountains and all types of aquariums. Complied with various international safety requirements, all live parts are with safe varnish coating to protect the user from electric shock.

Used according to the following instructions and maintenance programs, the pump will have years of satisfactory performance.

The data in this manual are basic data. Maybe there will be great difference during our actual production due to the technical improvements or owing to the customers requirements. If you want to obtain detailed and accurate data/parameters, please feel free to contact your supplier of factory.

MODEL	Operating voltage	Hz	Current	KATT	Delivery head	Delivery	SIZE
MZ180	12V	50Hz	0.19A	1.8W	0.37m	180L/h	L 45
		60Hz	0.19A	1.8W	0.47m		V 44
	220V-240V	50Hz	0.02A	3.5W	0.4m		H 33
MZ250	12V	50Hz	0.2A	2.4W	0.4m	250L/h	L 51.5
		60Hz	0.3A	2.4W	0.7m		V 43.8
	220V-240V	50Hz	0.025	3.5W	0.65m		H 32.8
MZ450	12V	50Hz	0.3A	7.5W	0.95m	450L/h	L 75
		60Hz	0.3A	7.5W	0.95m		V 64
	220V-240V	50Hz	0.05A	7.5W	0.85m		H 54
MZ600	12V	50Hz	1.2A	9.6W	1.3m	600L/h	L 77
		60Hz	1.6A	9.6W	1.3m		V 50.4
	220V-240V	50Hz	0.08A	10W	1.2m		H 59
MZ750	12V	50Hz	1.4A	11W	1.4m	750L/h	L 80.7
		60Hz	1.6A	11W	1.4m		V 50.9
	220V-240V	50Hz	0.09A	13W	1.25m		H 62.7
MZ1100	12V	50Hz	2.2A	16W	1.7m	1100L/h	L 90.9
		60Hz	2.2A	16W	1.8m		V 58
	220V-240V	50Hz	0.11A	17W	1.7m		H 78.2
MZ1500	12V	60Hz	0.5A	32W	2.3m	1500L/h	L 105
		60Hz	0.25A	32W	2.3m		V 56
	220V-240V	50Hz	0.25A	28W	2.3m		H 56
MZ2000	12V	60Hz	0.9A	46W	2.1m	1800L/h	L 129
		60Hz	0.48A	46W	2.1m		V 84
	220V-240V	50Hz	0.9A	30W	2.1m		H 100
MZ3000	12V	60Hz	1.2A	65W	2.7m	2700L/h	L 139
		60Hz	0.6A	65W	2.7m		V 84
	220V-240V	50Hz	1.4A	60W	2.7m		H 106



MZ180



MZ250



MZ450



MZ600



MZ750



MZ1100



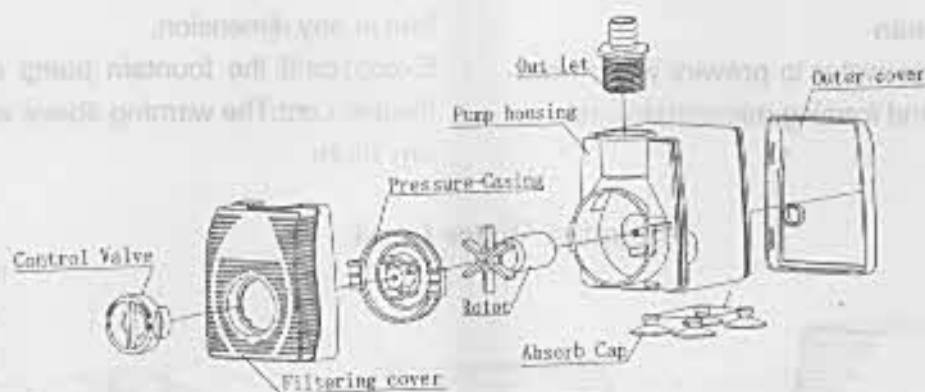
MZ1500



MZ2000



MZ3000



Spare part	Part Name	Diagram	Quantity
	LED lamp		1
	Submersible lamp		1
	Switch		1
	Transformer		1
	female plug		1
	male plug		1

SAFETY INSTRUCTIONS

The manipulation and utilization of our pump are very simple and convenient. The user just needs to pour a suitable height level of water and link the pump with the outlet water pipe and then connect the pump with power supply in accordance with the mark on the label. Thus the pump can run well.

To reduce risk of electric shock

- Always unplug the pump from the electric outlet before cleaning and handling.
- Use with clean water only. Do not place it in other liquid. Never let the pump run dry.
- OPTION-The pump is supplied with grounding conductor and a grounding type attachment plug and must be connected only to a proper ground outlet to reduce the risk of electric shock.
- Do not use the pump in water above 86° F or 30°C.
- Prevent the water from running into the electrical outlet down the cord.
- Do not lift, carry, or pull the pump by the power cord.
- Do not replace the pump cord. Stop using the pump if it sustains damage.

TO clean the pump

Unplug the pump from electrical outlet. Use a small soft brush or place it under water stream to remove debris.

To keep water clean

Periodically change water to prevent water from becoming sticky and forming microorganisms.

TROUBLESHOOTING

If the pump fails to run, the following should be checked,

- Check the circuit breaker, or try a different outlet to make sure that the pump is getting electrical power. NOTE-Always disconnect the pump from electrical outlet before checking.
- Check the pump discharge and tubing for kinks and obstructions.
- Algae buildup can be flushed out with a garden hose.
- Remove the pump front cover & plate to access the impeller area. Turn the rotor to ensure it is not broken or jammed.

With little flow rate, the pump will spew or "burp"

- Check the water level to make sure the pump is completely submerged.

If abnormal noise is heard during operation (with water)

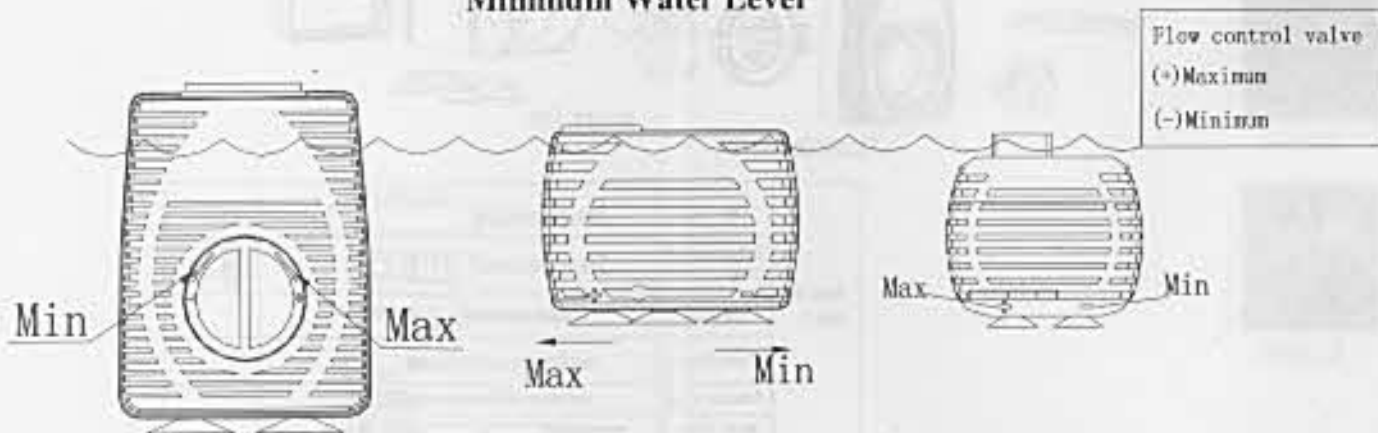
- First disconnect the power supply and then remove pump front cover & plate.
- Use hand to grip the impeller, gently pull the impeller/rotor assembly out of the pump housing.
- Rinse the impeller/rotor assembly and the cavity with clean water. If breakage or surface damage is found on the assembly, contact your distributor for part replacement.

Warning

To reduce the risk of electric shock, use only on portable self-contained fountains no larger than 5 feet in any dimension.

Exception: If the fountain pump use a SO or ST flexible cord. The warning above will not be suitable any more.

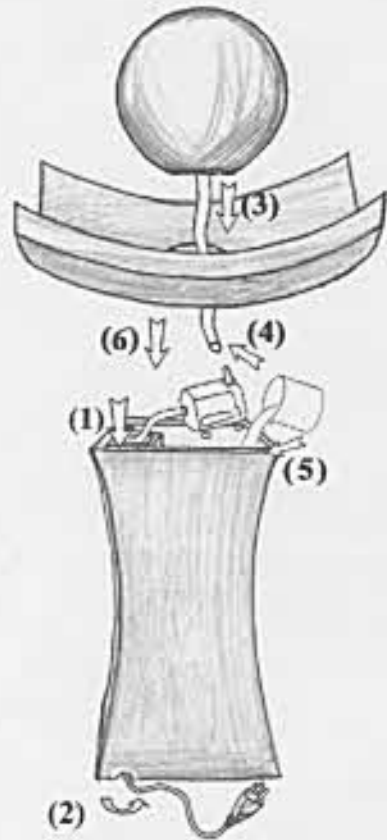
Minimum Water Level



Item No.: Y98131



Made in China



1-2



2-2

TOLL FREE AT 866-771-BOND