

INSTALLATION AND OPERATING INSTRUCTIONS. READ INSTRUCTIONS CAREFULLY AND FULLY BEFORE ATTEMPTING INSTALLATION.

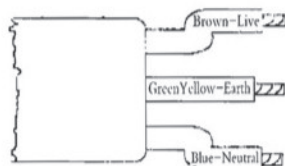
IMPORTANT

1. WARNING: Always unplug or disconnect all appliances in the pond from the electricity supply before putting your hands in the water whilst equipment is being installed, repaired, maintained or handled.
2. Do not use the supply cable to lift the pump as this may cause damage.
3. Do not operate or leave the pump in freezing conditions.
4. Do not allow the pump to run dry, The pump must be fully submerged.
5. A 10ma or 20 ma Residual Current device MUST be fitted to the mains supply.

WARNING:SAFETY AND ELECTRICAL CONNECTIONS

1. The pump is supplied with 10m of 3 core electrical cable which is permanently connected and sealed to the motor.
2. The supply cable cannot be replaced. If the cable is damaged the pump should be discarded.
3. This product is designed to be permanently wired to the mains supply in a dry weatherproof enclosure through a double pole switched fused spur-(disconnecter) to BS 3676 with a minimum contact separation of 3 mm fitted with a 3 or 5 amp fuse. Your installation must conform to the regulations of the local electrical authority which could include the use of plastic or metal conduit to protect the cable.
4. A 10ma or 20 ma Residual Current device MUST be fitted to the mains supply.
5. This appliance MUST be earthed and it is essential that the connections are made using the following code:

Brown - Live
Blue - Neutral
Green/Yellow - Earth



6. If an extension cable is required this should be connected to the end of the pump cable using a waterproof cable. The joint must be positioned in a suitable weatherproof housing.
7. Do not connect to any voltage other than that stated on the pump.
8. CONSULT A QUALIFIED ELECTRICIAN OR LOCAL AUTHORITY IF ANY DOUBT ABOUT WIRING TO THE MAINS SUPPLY.

FOUNTAIN PUMP

HQB-2503 HQB-3503

HQB-4503 HQB-5003



SAFETY INSTRUCTIONS

- ▼Always UNPLUG the pump from the electrical outlet before cleaning and handing.
- ▼Use with Water ONLY. Do not place in other liquid.
- ▼Connect only to a properly grounded outlet to reduce the risk of electrical shock.
- ▼Do NOT connect to any voltage other than that shown on the pump.
- ▼Do not use water above 90°F or 30°C.
- ▼Ensure that the electrical cord loops below the electrical outlet to form a 'drip loop'. This will prevent water from running down the electrical cord.

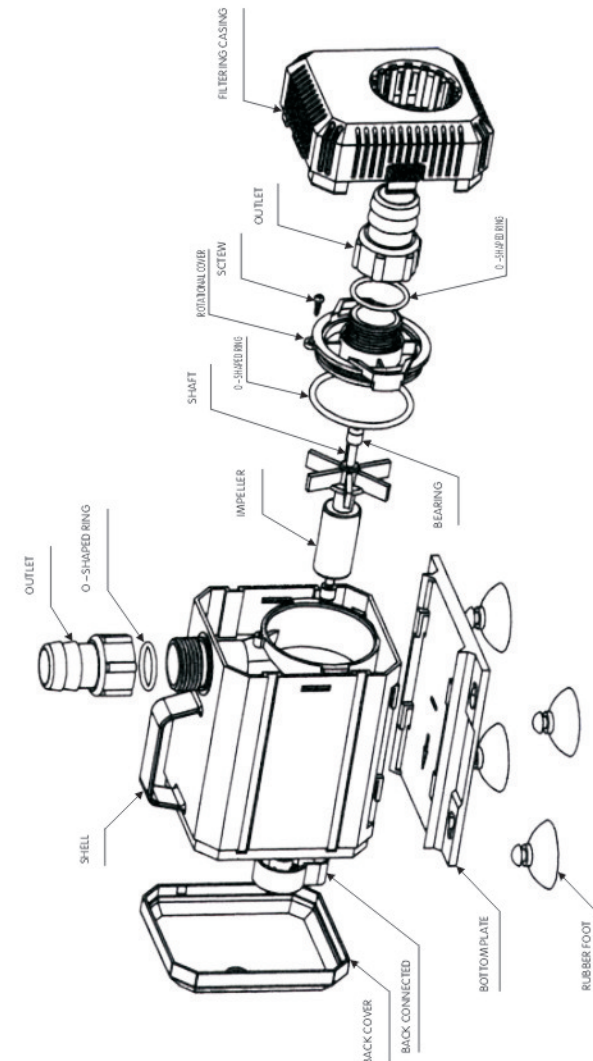
REGULAR MAINTENANCE WILL ADD TO THE PUMP'S LIFE

To clean the pump.

- ▼Unplug from electrical outlet, use a small soft brush or place under running water to remove debris.

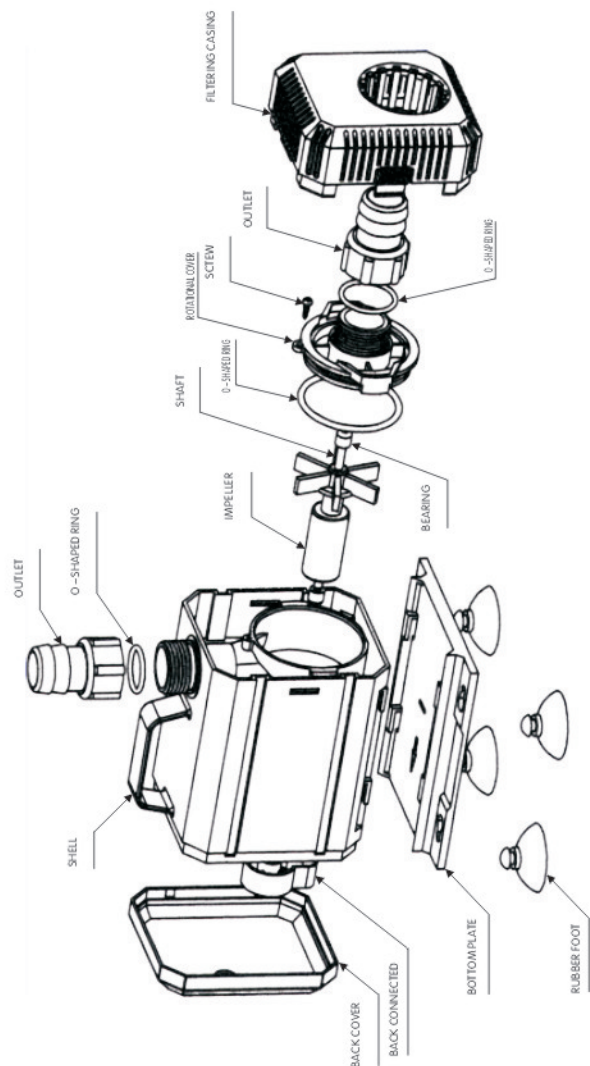
FLOW PERFORMANCE

MODEL	Voltage	Frequency	Power	H-Max	Output	Weight
HQB-2503	110V/220V/240V	50Hz/60Hz	55W	2.5m	2000L/h	1.40kg
HQB-3503	110V/220V/240V	50Hz/60Hz	85W	3.5m	3000L/h	1.45kg
HQB-4503	110V/220V/240V	50Hz/60Hz	100W	4.5m	4500L/h	3.20kg
HQB-5003	110V/220V/240V	50Hz/60Hz	150W	5.0m	5500L/h	3.30kg



FLOW PERFORMANCE

MODEL	Voltage	Frequency	Power	H-Max	Output	Weight
HQB-2503	110V/220V/240V	50Hz/60Hz	55W	2.5m	2000L/h	1.40kg
HQB-3503	110V/220V/240V	50Hz/60Hz	85W	3.5m	3000L/h	1.45kg
HQB-4503	110V/220V/240V	50Hz/60Hz	100W	4.5m	4500L/h	3.20kg
HQB-5003	110V/220V/240V	50Hz/60Hz	150W	5.0m	5500L/h	3.30kg



MODEL	W210		W220		W220B		W245		W186K	
	Hmax (cm)	ϕ Max (cm)	Hmax (cm)	ϕ Max (cm)	Hmax (cm)	ϕ Max (cm)	Hmax (cm)	ϕ Max (cm)	Hmax (cm)	ϕ Max (cm)
HQB-2503	100	80	60	20	20	40	20	100	100	100
HQB-3503	120	100	70	30	60	28	75	130	130	130
HQB-4503	280	130	—	—	—	—	75	250	250	100
HQB-5003	280	130	—	—	—	—	75	250	250	100

W210

W220

W220B

W245

W186K

If the pump fails to operate, check the following:

- ▼ Check the circuit breaker, or try a different outlet to make sure the pump is getting electrical power. NOTE: Always disconnect from electrical outlet before handling the pump.
- ▼ 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.

If the pump gurgles, spews, or "burps":

- ▼ Check the water level to make sure the pump has enough water to function.
- ▼ Obtaining a desired water level check the water level daily. In the first week to measure the water loss due to Evaporation, refill the water when needed.

If a normal noise is heard during operation(with water):

- ▼ 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 to remove any debris.
- If breakage or surface damage is found on the assembly contact your distributor for part replacement.

CAUTION-Read all instructions carefully before operating

- ▼ Connect the pump with proper voltage as indicated on the pump label. Always keep the cord away from high temperature and fire.
- ▼ Unplug the pump from power source before cleaning; maintenance or disassembling.
- ▼ To achieve the best flowing performance, pump must be placed on a flat surface.
- ▼ Never let the pump run dry, as this will shorten the pump life.
- ▼ Do not lift, carry, hang, or pull the pump by the power cord.
- ▼ Operate pump completely submerged for proper cooling.
- ▼ The electrical cord of the pump can not be replaced. If it sustains damage, it must be stopped for using.
- ▼ Disconnect the pump from supply mains before putting hands into water.

Attention: In order to get best results.

operate pump completely submerged.

Always keep the water level above the minimum water level.

