

# BERMUDA



# Filter Force

Ideal for filters and watercourses

## Instruction Manual

**IMPORTANT:** Please read this instruction manual carefully before using this product. Keep the manual safe for future reference.

25102021

Thank you for purchasing a Bermuda Filter Force pond pump. Filter Force is specifically designed to move large volumes of water from your pond to a filter or watercourse. A solids handling pump, Filter Force can suck in large particulate waste without blocking, and put it straight into a filter. To ensure that this product is safely and correctly used and at its optimal performance, please read this instruction booklet carefully before use.

## Attention

1. Keep out of the reach of children.
2. A drip loop should be installed in the cable, to ensure that water cannot travel down it and into an electrical socket.
3. An RCD (of which the rated working current is not over 30mA) must be installed when using the pump, and the power socket must be connected to an earth.
4. Bermuda Filter Force pond pumps are designed for under water use only. Running the pump dry, without water inside the pump, is strictly prohibited. Dry running may also cause irreparable damage, and invalidate any warranty.
5. The device must not be used to pump any flammable liquids or water with a temperature higher than 35°C.
6. Always disconnect the power supply when handling, servicing or maintaining the pump.
7. Do not attempt to unplug the pump or disconnect from the power supply with wet hands.
8. Do not carry or retrieve the pump from the pond by pulling the electrical cable.
9. The power cable cannot be replaced. If the power cable becomes damaged near to the pump body it cannot be replaced, and electricals are sealed inside the unit to make them waterproof.

## Features

- Elegant appearance and practical design.
- Permanent magnet brushless motor drives, for DC adaptive variable frequency, high efficiency and long life.
- Energy saving motor for large water volumes and high pressure.
- Ceramic impeller shaft with high rub resistance and long life.
- Fully epoxy sealed motor for waterproofing, safety and reliability.
- Steady and quiet performance.

## Usage

Suitable for outdoor ornamental garden ponds only. Can be run continuously, 24 hours per day.

1. The device can be placed at the bottom of the pond. One end of the hose should be connected to the pump outlet, and the other end will feed water either to a filter or water course. Hose clips (not supplied) should be used to fasten the hose to the hosetails.
2. The direction of the outlet is adjustable. If necessary, loosen the locking nut and adjust the outlet to the direction you need. Then tighten the locking nut by hand.
3. When first connected to the power, spend 30 minutes to checking that the pump is running as it should, steady, normal, and without any abnormal flow, or fault. Check connections to filter to ensure there are no leaks.

## Maintenance

Regularly inspect and clean the pump housing to make sure it has not accumulated too much dirt and leaves. Visibly reduced pump flow is a strong indicator that either the pump cage is nearly completely blocked, or the filter it is attached to is blocked, and needs cleaning, or new mechanical filter media.

## Cleaning

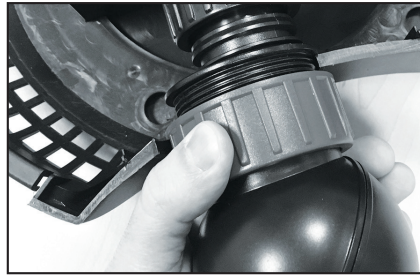
- Step 1:** Unclip the four locking clips and hinge back the upper casing
- Step 2:** Remove the stepped hosetail and ball joint by undoing the locking nut by hand.
- Step 3:** Using a Phillips screwdriver remove the screws and clamp which secure the pump body.
- Step 4:** Unscrew the impeller housing.
- Step 5:** Pull the impeller up, out of its chamber.
- Step 6:** Clean and inspect the impeller. The magnet should be crack-free, the impeller blades all present and intact, and free of debris and mulm build-up. If the impeller is damaged a new impeller should be purchased from your Bermuda stockist.
- Step 7:** Replace the impeller, then the pump, then the fastening bracket, then hinge the upper casing from the back, and fasten the locking clips.

## Trouble shooting

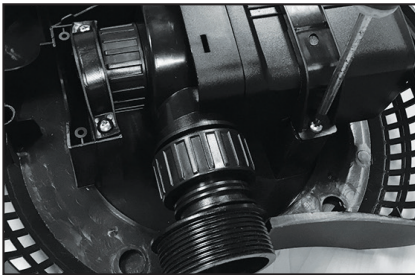
1. If the pump is not working after being connected, please check if the plug is loose, if it has been properly wired into the plug, RCD plug or outdoor switchbox, and that the plug and cable are not damaged. Never dismantle the pump by yourself if malfunction occurs. Check that the RCD has been reset and power to outdoor electricals is switched on, and not tripped or fused.
2. If the motor of the pump is running but with less water flow or water pressure, check that the pump housing is not already blocked by too much dirt and leaves, and that the Head Max (height of water it is pumping to) has not been exceeded.



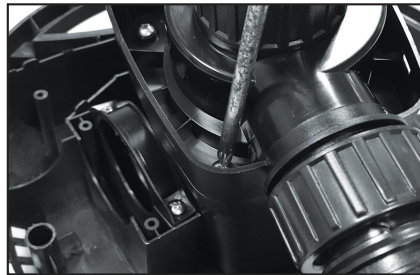
**Step 1**



**Step 2**



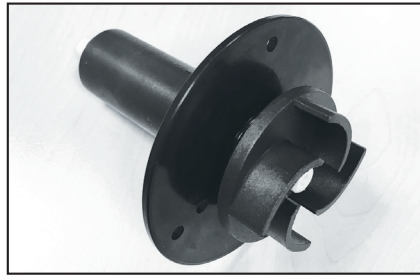
**Step 3**



**Step 4**



**Step 5**

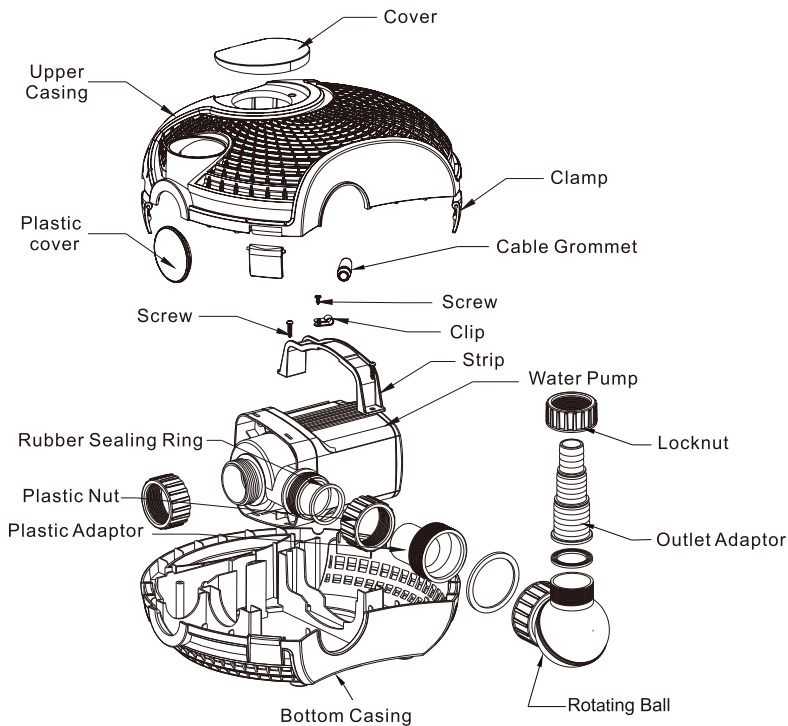


**Step 6**



**Step 7**

## Exploded view



## Specifications

MODEL	BER CODE	OUTPUT	POWER	HMAX	HOSETAILS	DIMENSIONS
3500	BER0614	3,500lph / 770gph	25W	3m	1", 1¼", 1½"	339 x 379 x 239mm
5000	BER0615	5,000lph / 1,100gph	40W	3.5m	1", 1¼", 1½"	339 x 379 x 239mm
6500	BER0616	6,500lph / 1,430gph	50W	4m	1", 1¼", 1½"	339 x 379 x 239mm
10000	BER0618	10,000lph / 2,200gph	85W	5m	1", 1¼", 1½"	339 x 379 x 239mm
13000	BER0619	13,000lph / 2,860gph	110W	5.5m	1", 1¼", 1½"	339 x 379 x 239mm
15000	BER0625	15,000lph / 3,300gph	135W	6m	1", 1¼", 1½"	339 x 379 x 239mm
20000	BER0626	20,000lph / 4,400gph	200W	7m	1", 1¼", 1½"	339 x 379 x 239mm

## Guarantee

This product is guaranteed against defects in material and workmanship for **three years** from the date of purchase, under normal usage. The guarantee **DOES NOT APPLY** in case of improper use, negligence, lack of maintenance or accidental damage to the pump. If the pump fails due to a manufacturing fault within this period it will be either repaired or replaced free of charge. Moving parts or wearable parts including the impeller and any washers or O rings are not covered by the guarantee and are available to order from your Bermuda retailer.

Should your Bermuda product stop working refer first to trouble shooting and if this does not help, return the product to the place of purchase.

Liability is limited to replacement of the faulty product only. No other costs will be reimbursed. This guarantee is not transferable and does not affect your statutory rights.

Do not attempt to tamper with or access electrical components inside the pump body. Doing so will invalidate the warranty.

The manufacturer or supplier shall not be responsible, or held liable for any damages caused by defective components or materials of this product, or for loss incurred by interruption of service, or any consequential/incidental damages and expenses arising from the production, sale use or misuse of this product or any other consequential loss.

Any warranty claim must be accompanied by a valid, dated proof of purchase. Evolution Aqua, Bermuda, its distributors and dealers shall not be held liable for any loss of fish, plants or any other livestock as a result of any failure or defect of this product.

The installation and use of your product outside of our recommendations as printed in this manual may also void the warranty.



**[www.bermudawatergardens.com](http://www.bermudawatergardens.com)**

**BERMUDA** an Evolution Aqua brand.  
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