

# HFX 70/100/150/200



**aquamanta**<sup>TM</sup>  
the experts in aquatic technology



## ***Instruction Manual***

Instruction version: 05/06/2012

## Technical Information

MODEL:
MAX. AQUARIUM VOLUME:
MAX FLOW RATE:
WATTAGE:

HFX 70	HFX 100	HFX 150	HFX 200
70L	100L	150L	200L
280L/hr	350L/hr	500L/hr	600L/hr
2W	2.5W	3.5W	4.5W

## Replacement Parts

Use only Aquamanta Genuine Spare Parts. See your local Aquamanta dealer and look for the number listed below for the spare part you require. Alternatively you will find these numbers on the silver label located on the product.

MODEL:
IMPELLER:
SPONGE:
CARBON CARTRIDGE:
CERAMIC CARTRIDGE:

HFX 70	HFX 100	HFX 150	HFX 200
028i	029i	030i	031i
028s	028s	028s	028s
028c	028c	028c	028c
N/A	029c	029c	029c

- Before operating the appliance, please read this manual carefully and keep it properly for future reference.
- Follow the instructions and the “important safeguards” in this manual before use.
- Please be aware of the guarantee conditions which are found at the end of this section of the instruction booklet. This product is shipped to you in a factory sealed carton. Should the product malfunction in any way or if the unit is damaged and requires replacement, contact the retailer where the product was purchased for inspection.
- Do not discard packing material until the product has been assembled.

### Disposal of used Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

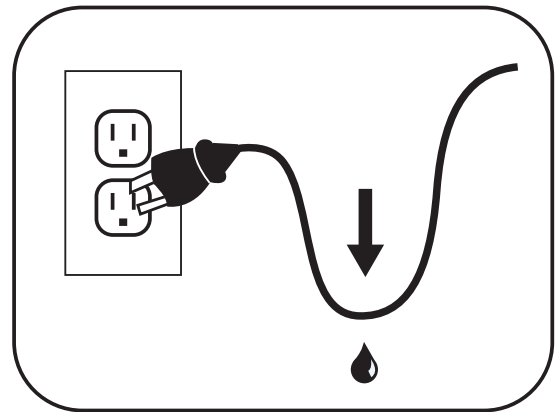


This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead, it is your responsibility to dispose of your waste equipment by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment. By separating and recycling your waste equipment at the time of disposal you will help to conserve natural resources and ensure that the equipment is recycled in a manner that protects human health and the environment. For more information about recycling this product, please contact your local city office, your household

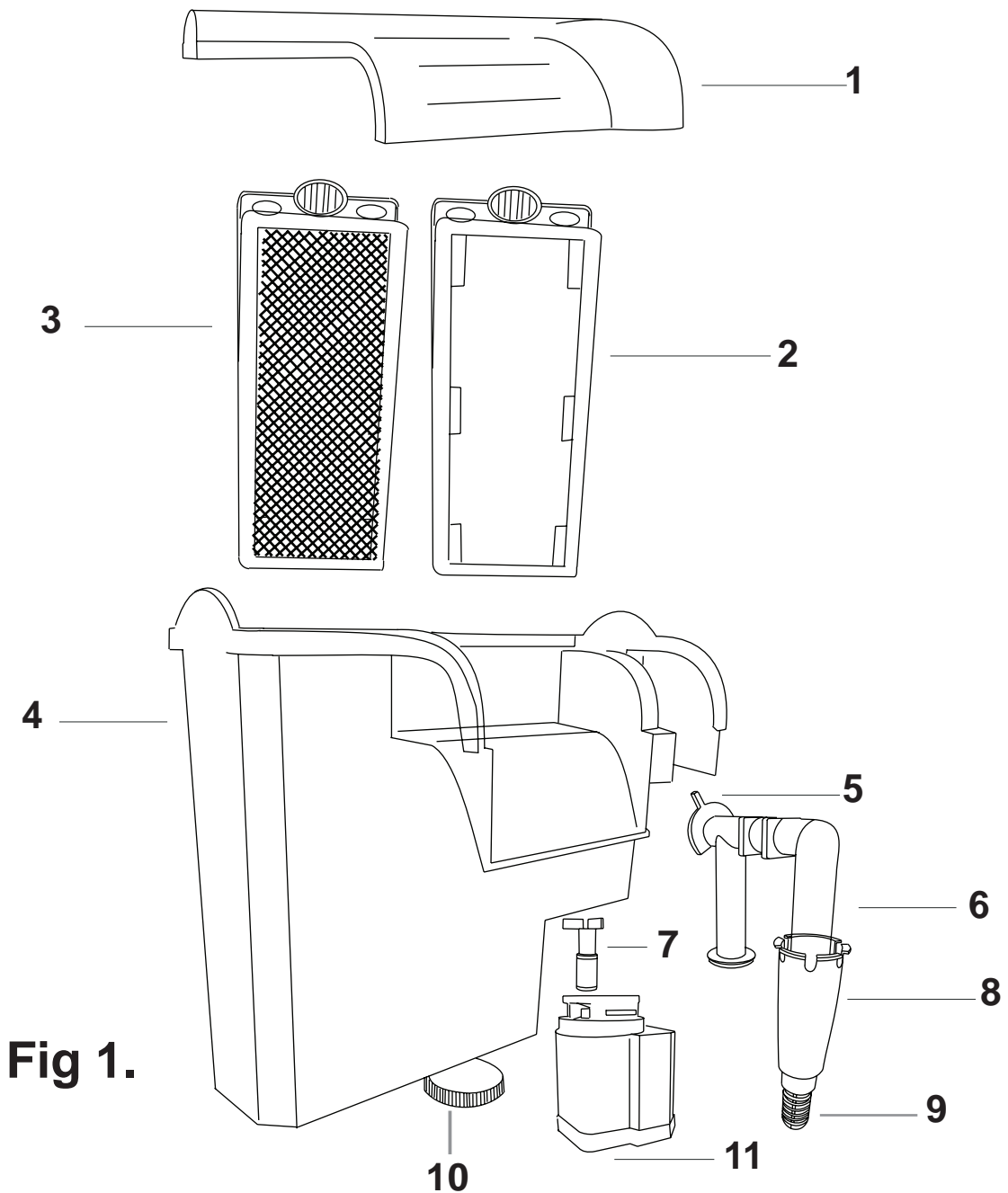
# Important Safeguards

To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow all safety instructions and important notices in these instructions as well as on the product itself.
2. This appliance is not intended for use by children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
3. To avoid possible electric shocks, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations do not attempt repairs yourself. Return the appliance to an authorised service facility for service or discard the appliance.
  - a. If the appliance or any electrical component of the appliance (non-immersible equipment only) falls into the water or gets wet, do not reach for it. Unplug it and then retrieve it.
  - b. If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source.
  - c. Carefully examine the appliance after installation. It should not be plugged in if there is water on parts which are not intended to be wet.
  - d. Do not operate the appliance if it has a damaged cord or plug, or if it is malfunctioning, or dropped or damaged in any manner.
4. A “drip loop” (see graphic) should be arranged for each cable connecting an aquarium to a power supply. The drip loop is the part of the cable below the level of the power supply. It prevents water travelling down the cable and coming into contact with the power supply. If the plug or the socket does get wet, do not unplug the appliance. Disconnect the fuse or circuit breaker that supplies the power to the appliance, then unplug and examine for presence of water in the socket.
5. Always unplug the appliance from the electrical outlet when not in use, before putting on or taking off parts, before any type of maintenance or cleaning.
6. Never yank the cable to pull it from the socket. Pull the plug carefully to disconnect.
7. Do not use the appliance for reasons other than the intended use. The use of attachments that are not recommended or sold by the manufacturer may cause the product to be unsafe. This is not recommended.
8. Do not install or store the appliance where it will be exposed to weather or temperatures below freezing.
9. Make sure any component mounted on a tank is securely installed before operating it.
10. Ensure input voltage is the same voltage as your local power supply.
11. If an extension cable is used it should have the proper rating. Care should be taken to arrange the cord so that it will not be tripped or pulled.
12. A G.F.C.I (Ground fault circuit interrupter) & surge protector is recommended for all electrical appliances.
13. Ensure your hands are dry when turning the power switch on/off and when inserting/removing the power cable from the socket.
14. If you are in any doubt about the electrical installation or safety of this product you must consult a qualified electrician.



# Know Your Filter



**Fig 1.**

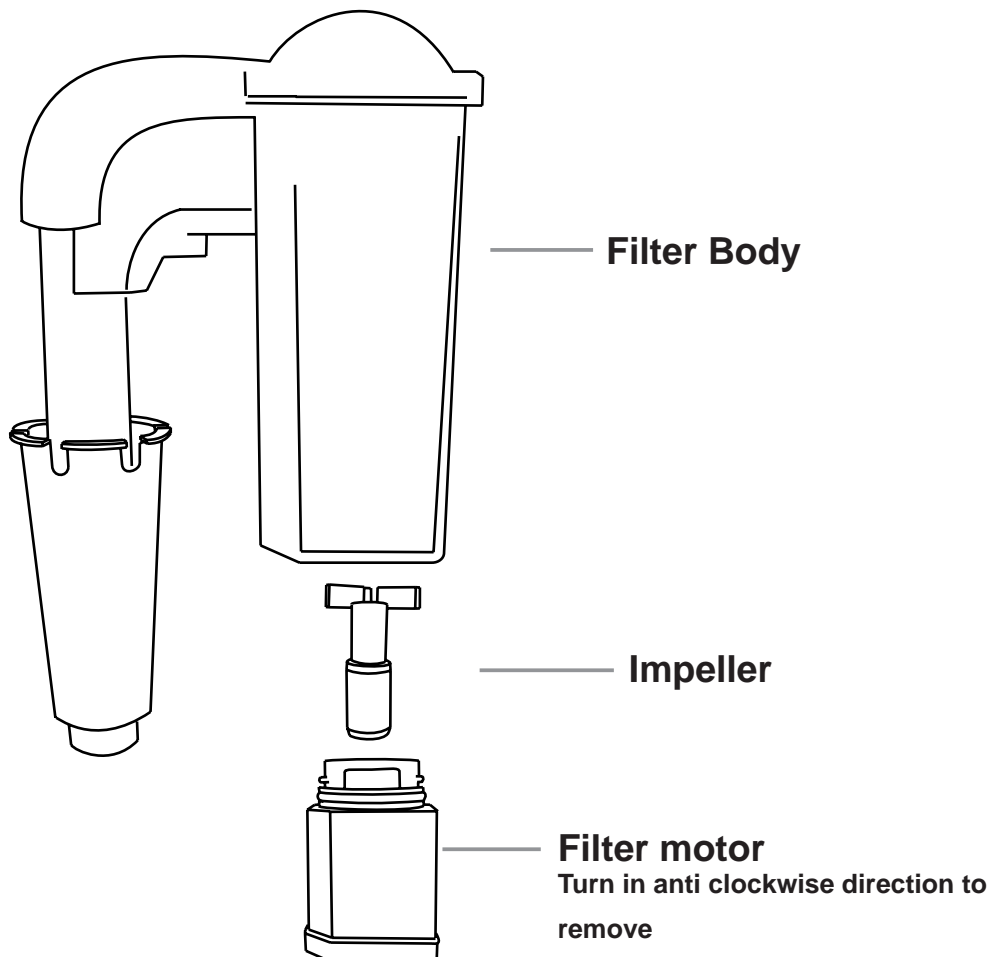
- |                                   |                           |
|-----------------------------------|---------------------------|
| <b>1. Dust Cover</b>              | <b>7. Impeller</b>        |
| <b>2. Carbon Cartridge</b>        | <b>8. Surface Skimmer</b> |
| <b>3. Ceramic Cartridge</b>       | <b>9. Strainer</b>        |
| <b>4. Filter Body</b>             | <b>10. Filter Leveler</b> |
| <b>5. Flow Controller</b>         | <b>11. Motor</b>          |
| <b>6. Adjustable Inlet U-Pipe</b> |                           |

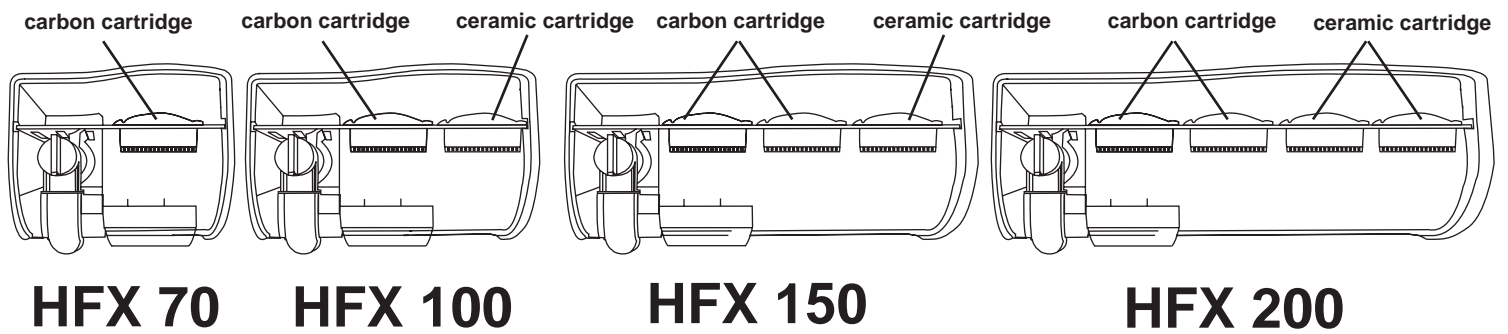
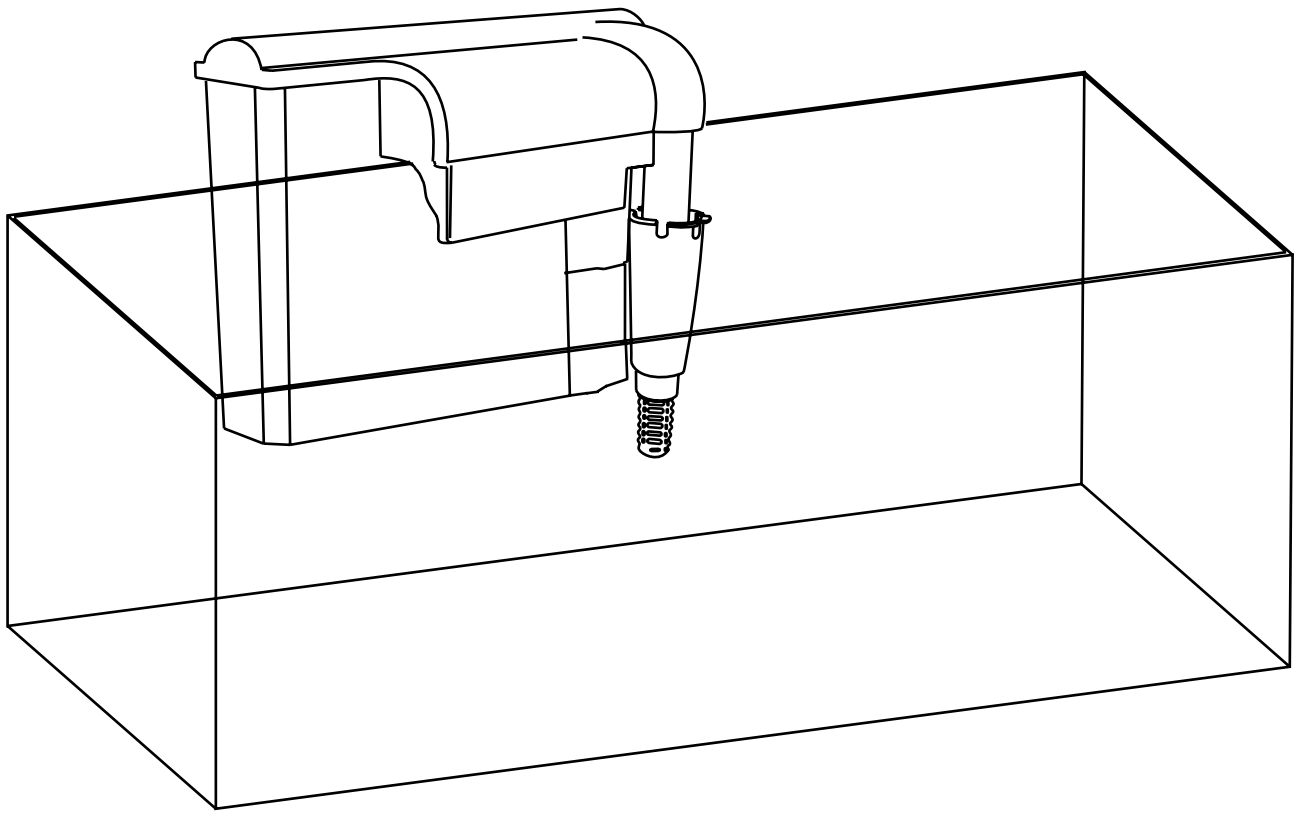
Note: HFX 70 only uses a carbon cartridge

# Installation

1. Remove the filter lid to access the filter body
2. Place the adjustable inlet U-pipe into position. The longer side of the pipe sits on the outside of the filter body. The shorter side locks into the impeller housing on the pump motor.
3. The strainer then attaches to the inlet pipe.
4. Wash the carbon and ceramic cartridges in tap water before use. DO NOT USE DETERGENT OR SOAP. The cartridges slide into the grooves in the filter body.
5. Please refer to the cartridge layout and direction in Fig.1 . Please note the model HFX 70 only has one carbon cartridge.
6. Push the filter leveller into the bottom of the filter body. This is used to keep the whole filter level.
7. a) Hang the filter off the back wall of the aquarium with the adjustable inlet U-pipe and strainer inside the aquarium water.  
b) The surface skimmer self adjusts to the water level in the aquarium. The surface skimmer is designed to also filter the water from the surface of the aquarium.
8. To start the filter, fill the filter body with aquarium water until it overflows back into the aquarium. Turn on at the power supply. It may take a while to start as it expels the air from the impeller.
9. The filter flow can be adjusted via the flow controller on the top of the inlet U-pipe. It is better to leave at full flow, however, if this current is too strong, turn down the flow controller until the desired flow is achieved
10. Place the lid back on the filter body.

## Accessing the impeller





## Maintenance

1-2 Weeks

1. Turn off at the power supply
2. Remove a small amount of aquarium water into a clean bucket
3. Remove the sponges from the cartridges, dip and squeeze the sponges in the bucket. Note! The sponges do not need to be thoroughly cleaned as to preserve the good biological bacteria in the sponge. (Do not use tap water or any detergents of any kind to clean the sponges.)
4. In the same bucket dip and shake the ceramic cartridge, the ceramic cartridge does not need to be thoroughly cleaned to also preserve the good biological bacteria.
5. The wool/ carbon cartridge can be thoroughly cleaned under a high pressure tap. Note the carbon cartridge should be replaced every 6-8 weeks as the carbon no longer becomes effective after this time.
6. Remove the filter body from the aquarium and discard any excess dirty water from the filter body.
7. Reinsert the sponges into the cartridges and reassemble the filter back onto the aquarium. Follow point 8 of the installation section to restart the filter.

# Maintenance

## 6-8 Weeks

1. Turn off at the power supply.
2. Remove entire filter from the back of the aquarium and take to the sink.
3. Follow points 2-4 in the 1-2 week maintenance section.
4. Throw away the carbon cartridge and replace with a new one. Wash the new cartridge in tap water, shake dry and refit the used sponge.
5. Remove the entire inlet U-pipe. Grasp the motor and twist anti clockwise, then gently pull down to completely remove it from the filter body.
6. Remove the impeller (see accessing the impeller diagram) from the motor and wash. Use a double ended pipe brush and clean the impeller well. (where the impeller sits)
7. Use an aquarium safe lubricant and apply to the O-ring seals around the motor. This will allow easy removal of the motor for the next service and provide a better water seal.
8. Put the impeller back in place then reconnect the motor to the filter body.
9. Clean the inlet U-pipe with a double ended pipe brush then put back in place.
10. Reassemble the filter and hang the filter back in place on the aquarium. Refill the filter with aquarium water. Turn filter on at power supply.
11. If replacing the ceramic cartridge do not replace both the cartridge and sponge at the same time.
12. With the HFX 150 and HFX 200 only replace one ceramic cartridge at a time.

# Troubleshooting

## LOW WATER FLOW

1. Clean cartridge, impeller and inlet pipes.
2. Make sure water level in the tank is not low, keep approximately 2-3cm from the aquarium lip.
3. Check the flow controller at the top of the inlet U-pipe and make sure it is opened completely.

## FILTER WILL NOT PRIME

1. As previous tips

## FILTER UNIT IS LEAKING

1. Check that the O-rings around the motor are in good condition
2. Reapply tank safe silicone lubricant
3. Make sure that the filter leveller at the bottom of the filter body is in place and keeping the filter level.



# Guarantee

The additional 1 Year Extended Guarantee applies when you REGISTER online with Aquamanta. Register your Extended Guarantee at [www.aquamanta.com.au](http://www.aquamanta.com.au)

## About this Guarantee

The Manufacturer or Distributor, of Aquamanta goods, is collectively known herein as "Aquamanta". Please refer to contact details for Aquamanta below or on the applicable Aquamanta website. Any product that is covered by its own Guarantee (as enclosed with the product) is subject to the conditions of that Guarantee.

The benefits given to the purchaser, under Guarantee, are in addition to all other statutory rights and remedies which the purchaser has in respect of goods under legislation in the applicable country of purchase. This Guarantee shall not affect any such rights and should be read subject to such legislation.

### 1.0. Terms and Conditions of Guarantee.

1.1. Aquamanta warrants to the purchaser, for 2 Years from date of original purchase, to repair or replace goods where fault is found due to defective materials or faulty workmanship and where goods do not operate in accordance with the instructions.

1.2. All claims for repair or replacement must be made at place of purchase.

1.3. The original and dated Proof of Purchase (receipt) must be supplied with all goods claims. Please also provide this Guarantee where possible.

1.4. The Guarantee covers the Aquarium against gluing breakdown resulting in leakage.

1.5. All goods subject to claim under Guarantee should be prepared for transportation in the original packaging or other comparable packaging which offers the same degree of protection.

1.6. Where goods are repaired or replaced under Guarantee, these goods are Guaranteed for the remainder of either the original Guarantee or Extended Guarantee period.

1.7. Where claims on inspection reveal goods are in normal working order, Aquamanta will request reimbursement of all reasonable costs incurred.

### 2.0. Other Terms and Conditions - Extended Guarantee

2.1. The Extended Guarantee period is for an additional 1 Year and commences on expiration of the standard guarantee period.

2.2. Application for Extended Guarantee is FREE of any registration cost to the purchaser on completion of the Extended Guarantee questionnaire which is found on the applicable Aquamanta website (refer below).

2.3. Upon receipt and acceptance of the questionnaire, Aquamanta will forward (by way of email) a Certificate of Extended Guarantee to the purchaser.

2.4. For more information on how we collect, hold, use and disclose personal information provided to us, please refer to our Privacy Statement on the Aquamanta websites or write to our Privacy Officer, in your country of purchase.

2.5. Where Aquamanta determines goods are being used in a manner contrary to the instructions, specifications or this Guarantee, Aquamanta reserves the right to terminate Extended Guarantee for such goods and will provide written notice to the purchaser.

### 3.0. Exclusions and Limitations

Where permitted by local law, the following exclusions and limitations apply in regard to Guarantee:

3.1. Goods claims where fault is due to, but not limited by a) misuse b) neglect c) abuse d) fire or flood e) normal wear and tear f) accidental breakage g) Acts of God h) mains voltage fluctuation or supply problems i) connection to any voltage other than what is stated on the rating plate j) modification or tampering to electrical cord or plug, k) vermin, insects or foreign object l) liquid spillage or submersion of goods not designed to sustain such use or duress.

3.2. Where inspections reveal goods are in normal working order including where noise or vibration is consistent with normal goods operation.

3.3. Attempted repairs or modifications by unauthorised persons, including but not limited to the drilling of holes in the aquarium glass by unauthorised persons.

3.4. Where the goods factory rating plate has been removed, altered, damaged or is rendered illegible.

3.5. Where goods are not installed, operated or maintained in accordance with Aquamanta's goods instructions, specifications or this Guarantee.

3.6. Replacement or repair of worn consumables or replacement of lost goods, parts or components.

3.7. Costs associated with goods transportation, removal, installation, postage or cost of insurance.

3.8. Any damage incurred whilst installing, transporting or moving the goods.

3.9. Subject to certain local statutory rights and obligations to the contrary, and this guarantee shall not affect those rights or obligations, where, to the full extent permitted by law: 1. all express and implied warranties and conditions under statute or general law, are expressly excluded and Aquamanta, where permitted, will limit liability as follows and at Aquamanta's option to: in regard to goods either a) the replacement of goods or supply of equivalent goods b) the repair of goods or the cost of replacing the goods or of acquiring equivalent goods OR in regard to services either c) the re-supply of services d) the cost to re-supply services.

2. Aquamanta will not be liable for any loss or damage, including consequential loss or damage either directly or indirectly, or for any incidental expenses, of any kind, and in any way whatsoever.

The additional 1 Year Extended Guarantee applies when you REGISTER online with Aquamanta. Register your Extended Guarantee at [www.aquamanta.com.au](http://www.aquamanta.com.au)

(1) Consumables include items such as filter media/cartridges, impellers and shafts, and diaphragms/flapper valves.

Aquamanta may be contacted in: Australia Kong's (Aust.) Pty. Limited PO Box 863, Ingleburn 1890 NSW Australia
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