# RAINWATCH FILTER

## INSTALLATION & MAINTENANCE GUIDE

- WHAT'S INCLUDED IN THE RAINWATCH PACK
- FITTING THE FILTER
- INSTALLING THE FIRST FLUSH DEVICE
- CLEANING (REMOVING THE CANISTER)

DOUST

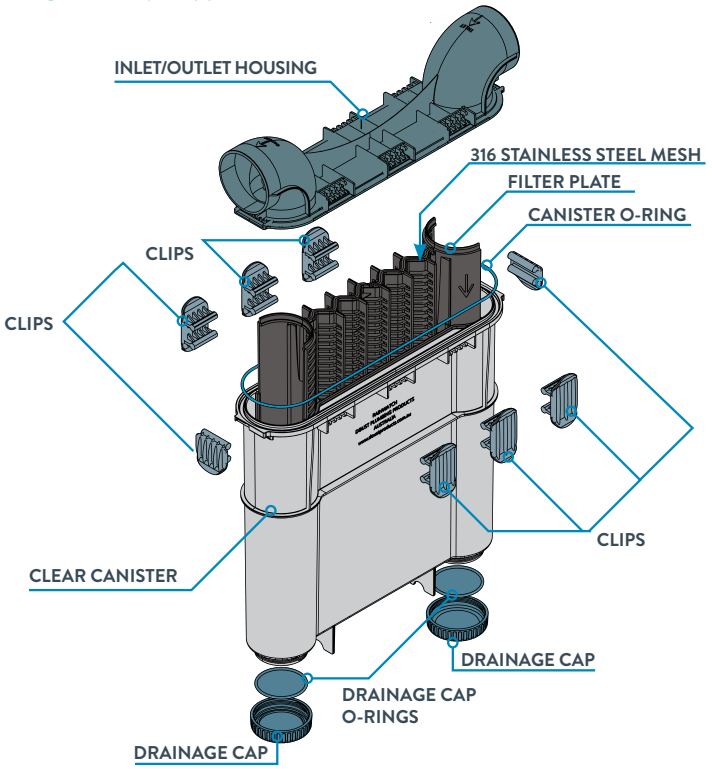
DOUST PLUMBING PRODUCTS

The RainWatch filter is manufactured from the highest quality materials and is UV resistant.

However, it is prudent to protect the RainWatch filter from direct sunlight.

# INCLUDED IN THIS BOX

## 1 X RAINWATCH® FILTER (ASSEMBLED)
**EXPLODED VIEW**

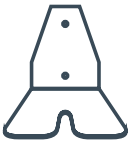



*FIRST FLUSH DEVICE INCLUDED*
*SEE PAGE 4 FOR INSTALLATION INSTRUCTIONS*

## 6 X MASONRY PLUGS
TO SUITE ¼ INCH OR 6.35MM DRILL

## 6 X SCREWS

## 1 X HANGER BRACKET
(TOP)



## 1 X BASE BRACKET
(BOTTOM)

## 1 X FIRST FLUSH DEVICE

# TOOLS REQUIRED FOR FITTING

- NOT INCLUDED -

## HACKSAW

## DRILL

**+ SUITABLE DRILL BITS**

6.35 mm Bit
3 - 4 mm Bit

## A SCREWDRIVER

## SPIRIT LEVEL

## PROBABLY A LIGHT HAMMER

# ATTENTION BEFORE INSTALLATION

Adequately Size your RainWatch Filters.

**You should provide one RainWatch Filter for every outlet in your gutter or with an Annual Rainfall of:**

**Annual Rainfall**

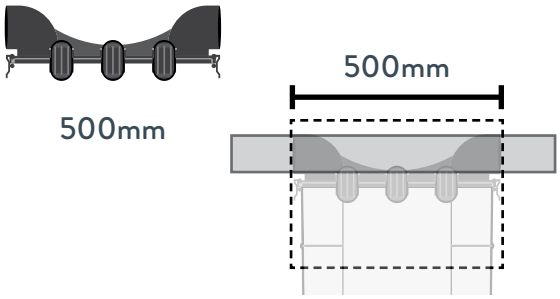
**400mm** = One RainWatch Filter per 200/300 $m^2$ of Roof

**500mm** = One RainWatch Filter per 100/200 $m^2$ of Roof

**500mm Plus** = One RainWatch Filter no greater than 50/100$m^2$ of Roof

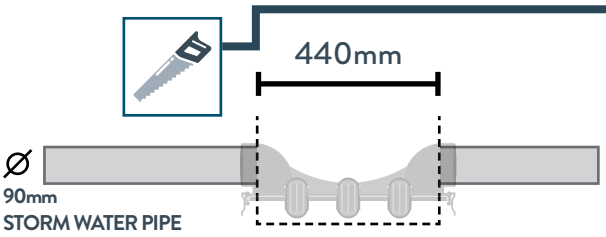
# | FITTING THE RAINWATCH FILTER |

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING.



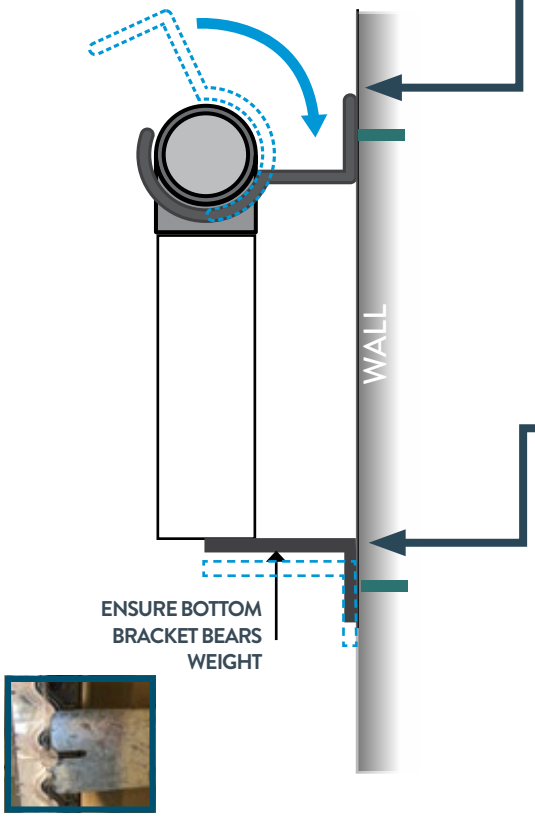

## 1.FITTING LOCATION

- The RainWatch filter will require a length of 500 mm on the horizontal plane, as the inlet/outlet housing on the filter (*the black top section*) is 500 mm long




## 2.CUTTING THE STORM WATER PIPE

- *Allowing for two 30 mm joints*
- RainWatch requires a level 440 mm cut out area (with a 90 mm storm water line)

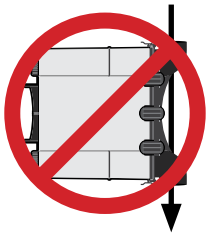



## 3.FITTING THE TOP BRACKET

- With RainWatch in situ, find the mount location of the large bracket by rolling the bracket around the inlet-outlet housing and then mark holes for masonry plugs
- Remove the RainWatch Filter
- Using a spirit level, check to make sure that holes & bracket align in a horizontal manner
- Drill & insert plugs, and then fix the bracket with screws
- Refit the RainWatch filter

## 4.FITTING THE BASE BRACKET

- While the filter is on the bracket, find the location for the base bracket by placing the bracket underneath the filter (as shown). Move the base bracket up the wall to a point where it begins to bear the weight of the filter. Mark holes for masonry plugs
- Remove the filter
- Drill & insert plugs, and then fix the bracket with screws
- Place the filter back on, seating it to the base bracket



DO NOT fit the RainWatch Filter on to a vertical pipe

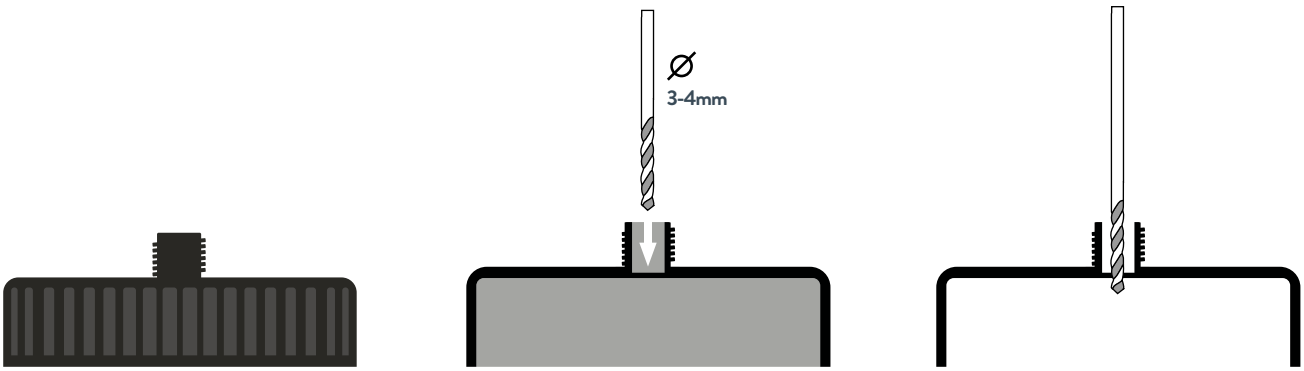
DO NOT Glue the filter to the 90 mm storm water line. This will impair the ability to clean the RainWatch Filter.

# | FIRST FLUSH DEVICE |

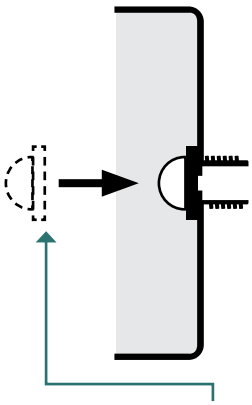
THE RAINWATCH FILTER IS DESIGNED TO ALLOW A FIRST FLUSH CLEAN BY REMOVING THE CAP AT THE BOTTOM OF THE INLET.

The device allows the RainWatch filter to remain dry by the use of a drainage drip outlet.

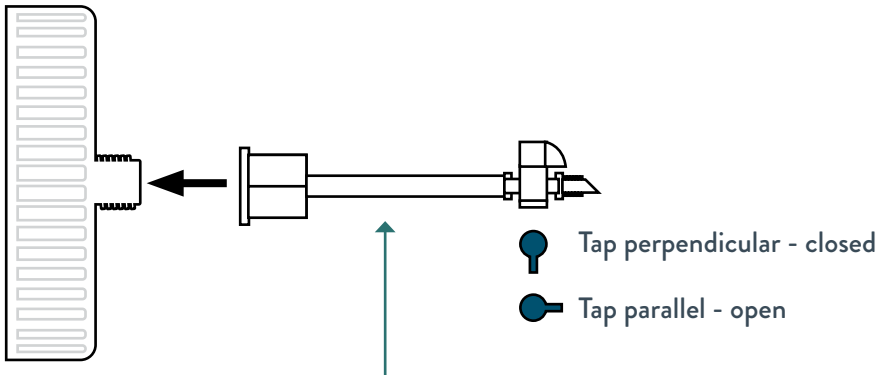
The device should be fitted using the drainage cap on the outlet end of the filter (where the water travels from the filter toward the rainwater tank).




Unscrew the cleaning cap by hand, place the cap on a flat surface and carefully drill a **3-4mm** hole as shown



Place the hose filter on the underside of the cap.




Screw on the drip feed fitting. and place the cap back on the filter.

**PLEASE NOTE** it is normal for the tap to drip in the turned off position.

**Please note:** Provide a 150 mm relief over flow above the Rainwatch filter and have a minimum relief of 150 mm from the bottom of the gutter for a continual discharge making sure that no water can enter the building.

# | REMOVING THE FILTER CANISTER & CLEANING THE RAINWATCH FILTER |

### 1 | REMOVING CLIPS

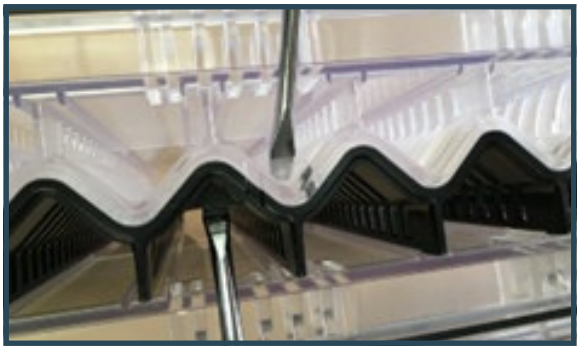
Clips can be lifted and removed by hand.

There is no hinge, so they are able to be removed from the fitting completely.

(SEE 9 FOR CLIP REPLACEMENT)

### 2 | REMOVING FILTER PLATE

The filter plate can be lifted from the canister, by gently levering it with two screwdrivers placed on the lugs of the filter plate.



### 3 | CLEANING

Thoroughly clean the canister with cold water.

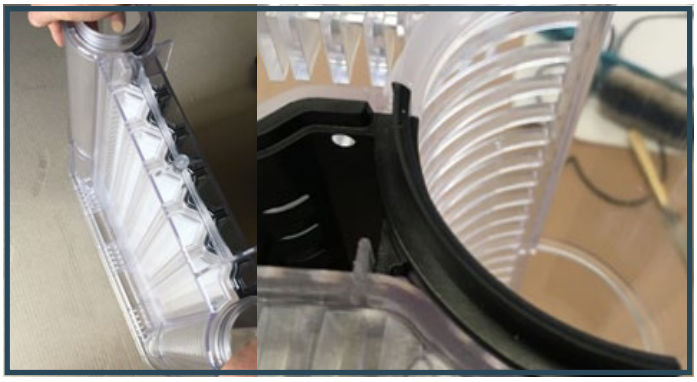
Clean 316 Stainless Steel filter with a soft brush by washing and hosing down.

And if required, additionally wash with a soft bush both sides of the 316 stainless steel surface mesh with a mild detergent in warm water. Finally, rinse in clean cold water.

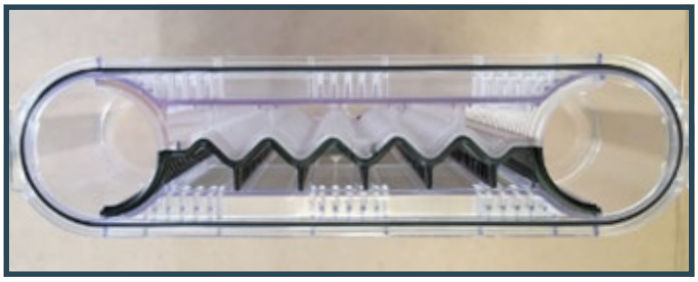
### 4 | FILTER REPLACEMENT 4/4

To ensure the filter plate is snug place the filter canister upside down and lightly tap on a flat surface.

When the filter plate is fitted correctly or soffit to the soffit, you will see that all the surfaces are level.



# | REMOVING THE FILTER CANISTER & CLEANING THE RainWatch FILTER |



### 5 | CANISTER O-RING

Ensure that the canister's o-ring remain intact as shown.

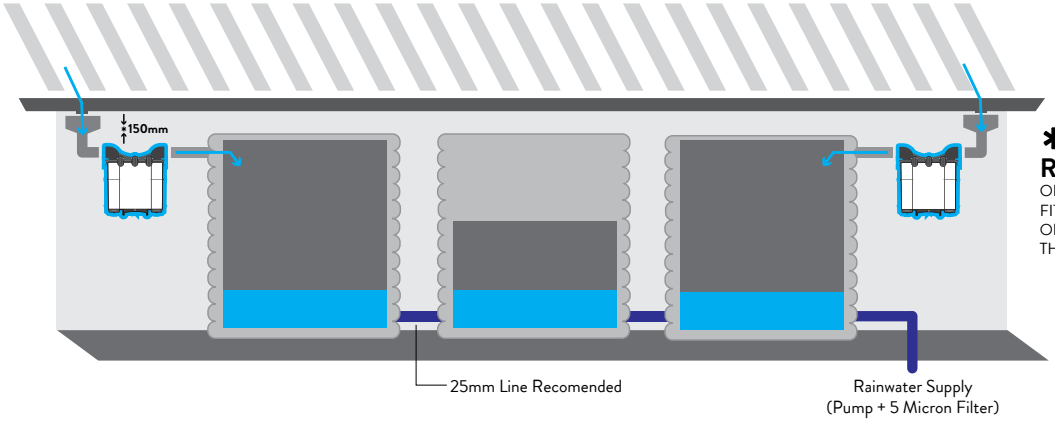
### 6 | REPLACING CLIPS

Insert a clip either side (as shown) ensuring the canister is accurately fitted and then all other clips can be fitted.

Once all the clips are fitted, the RainWatch filter will fit snugly back into the existing brackets.

## |CHECKLIST|

- ☐ Drinking Water installation
- ☐ Non Drinking Water installation
- ☐ This installation has .....Rainwatch Filters per 200 $m^2$ of Roof Area.
- ☐ This installation is provided with a 150 mm relief overflow above the RainWatch Filter and has a minimum relief of 150 mm from the bottom of the gutter for a continual discharge making sure that no water can enter the as building as detailed.




*** RECOMMENDATIONS**
ONE FILTER PER 200m² OF ROOF
FIT RELIEF OVERFLOW A MINIMUM OF 150mm FROM THE BOTTOM OF THE GUTTER

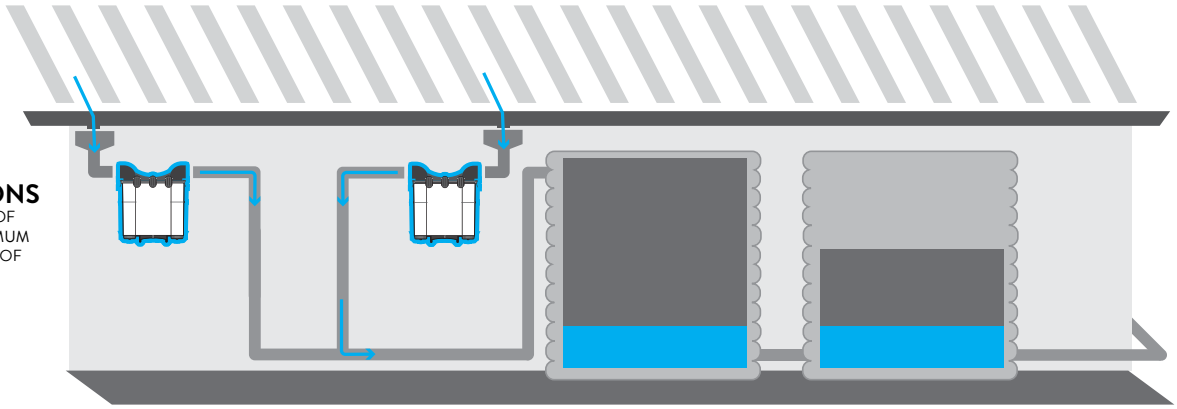
- ☐ Date of installation _____ By _____

## RAINWATCH FILTER - Installation Guide

NOTE: Not to scale - Physical Relationship Only

Existing Wet Installations - ground water ingress can contaminate the rainwater

### 1. CLEAN AND WATER TEST (CHECK FOR LEAKS) UNDERGROUND PIPEWORK TO RAINWATER TANK



* **RECOMMENDATIONS**

ONE FILTER PER 200m² OF ROOF
FIT RELIEF OVERFLOW A MINIMUM OF 150mm FROM THE BOTTOM OF THE GUTTER

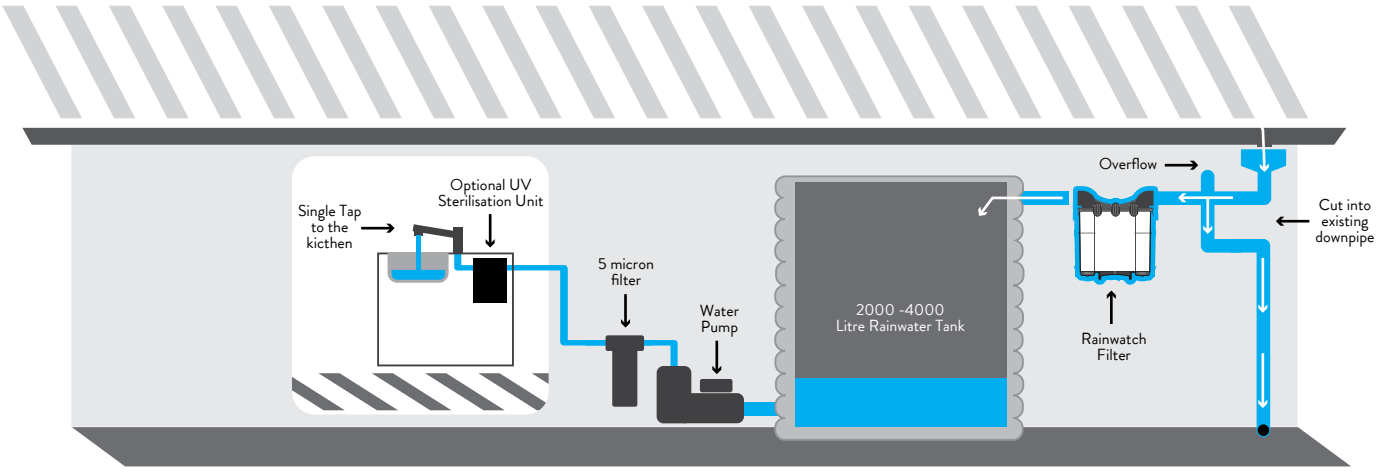
## EXISTING WET INSTALLATIONS (NOT RECOMMENDED) OPTION ONE

An alternative to modifying any existing rainwater installation, including a "wet installation", is to install a seperate safe drinking water station (Option One) by tapping into an existing downpipe based on the following;

An adult requires 2.5 litre daily for drinking, and a six-month dry period (which can be increased or decreased) based on location is approximately 180 days.

180 x 4 adults x 2.5 litres a day + 1,800 litres (2,000 - 4,000 litre rainwater tank)

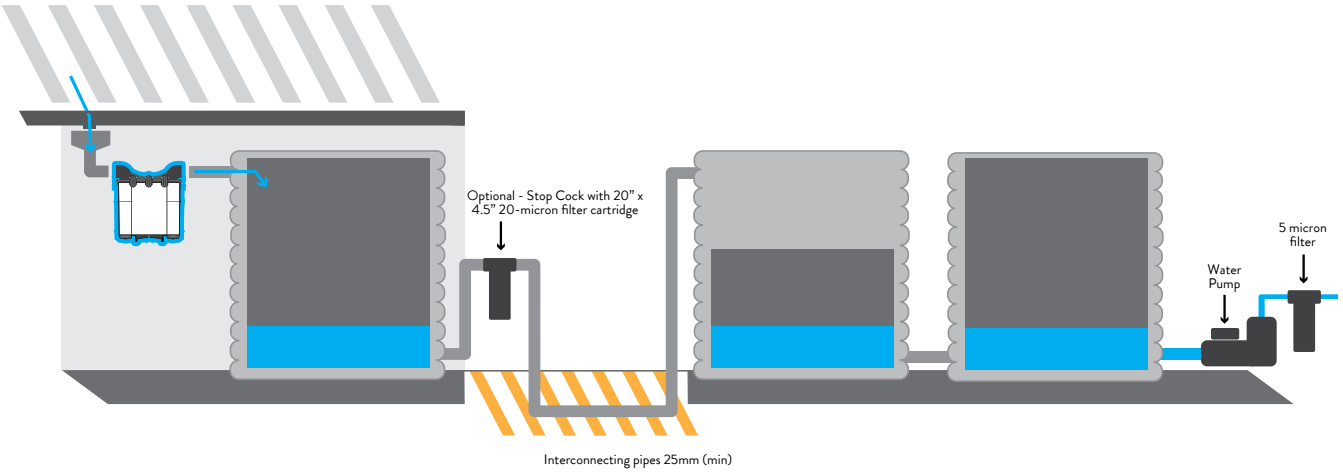
## ULTIMATE RAINWATER DRINKING QUALITY (OPTION ONE)



Rainwater in Australia is generally considered safe to drink and with the Rainwatch filter removing contaminates the rainwatch filter ensures that the rainwater stays safe to drink while protecting the rainwater from pests during Australia's hot dry summers

NOTE: Not to scale - Physical Relationship Only

## OPTIONAL - HIGH QUALITY WATER INSTALLATION




Annual rainfall, roof catchment area and the required tank capacity will vary with each installation

## WARNING

The Rainwatch Filter is not a rainwater sterilisation device and is not designed for any other purpose than micro filtering out contaminates prior to its storage. Where rainwater is required for any particular purpose, including human consumption, it is recomended that a water treatment specialist be consulted,

Water treatments systems should be designed, installed and regularly maintained by a specialist in accordance with local by laws and the respective systems manufacturers instructions.