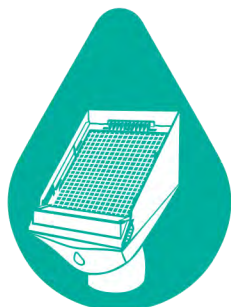


# leaf eater®



## High Performance Downspout Filter

- Advanced debris shedding technology
- High flow rate performance
- No more blocked gutters or flooded eaves
- No more vermin or mosquitoes in the water system
- Self cleaning
- Low maintenance

**Prevent leaves and debris from entering your Rain Harvesting System**

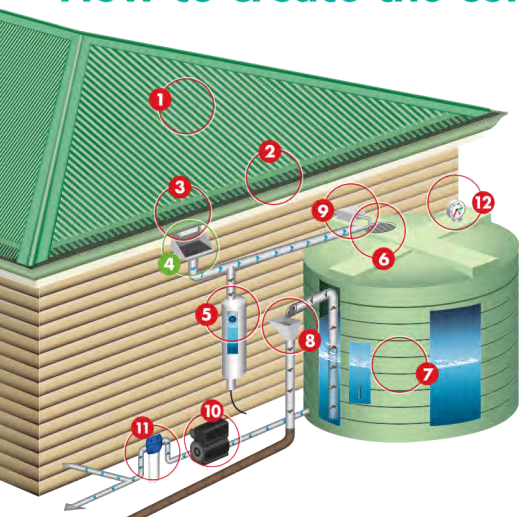
**clean shield®**  
NEXT GENERATION TECHNOLOGY



SUITABLE FOR  
VERTICAL AND  
HORIZONTAL  
(REAR OUTLET)  
PIPES.

## FITS 3" and 4" ROUND DOWNSPOUTS

## How to create the complete Rain Harvesting System



1. Check **ROOF SURFACE** is suitable for collecting quality rainwater.
2. Install **GUTTER MESH** to prevent leaves and debris from blocking gutters.
3. Fit **GUTTER OUTLETS** from the underside of the gutter to prevent obstruction of water flow.
4. Fit Leaf Eater® or Leaf Beater® **RAIN HEADS** to downspouts to prevent blocking. Rain Heads deflect leaves and debris and keep mosquitoes out of pipes that hold water.
5. Install **FIRST FLUSH WATER DIVERTER/S** (sometimes called 'roof washers') to prevent the first flush of most contaminated rainwater from entering the tank. Fit to each downspout that supplies water to the water tank, cistern or rain barrel, or install a large diverter that can handle multiple downspouts, beside the water tank or in-ground.
6. Ensure the **TANK/CISTERN SCREEN** is installed at tank/cistern entry point to keep mosquitoes and pests out.
7. Choose a **WATER TANK, CISTERN or RAIN BARREL**. Consider annual rainfall, roof catchment area and water usage when determining its size.
8. Fit **INSECT PROOF SCREENS or FLAP VALVES** to the end of all pipes to the tank screen and to **TANK/CISTERN OVERFLOW OUTLETS** to keep mosquitoes and pests out and ensure tank/cistern is vented properly.
9. Utilize a **TANK/CISTERN 'TOP UP'** system (if required) to automatically 'top up' the tank/cistern with mains water when water levels fall to a designated minimum level.
10. Select a **PUMP SYSTEM** (if required) to distribute water for use inside or outside the home.
11. Fit a purpose designed **RAINWATER FILTER** after the pump to help reduce residual sediment, color and odour.
12. **WATER LEVEL MONITOR**. Install a level indicator to help monitor your water usage. Wireless systems are most convenient and display a reading inside the home.

- Improve Water Quality
- Increases Catchment Efficiency
- Protects Pumps and Household Appliances
- Reduces Tank/Cistern Maintenance

Consider local council requirements and have a plumber complete installation where required. © Rain Harvesting Pty Ltd.

**clean shield®**  
NEXT GENERATION TECHNOLOGY



**Next generation technology for advanced debris shedding.**

- ✓ Directs leaves & debris away from the flow of water
- ✓ Improves tank water quality
- ✓ Single screen for easy installation
- ✓ Self cleaning – low maintenance
- ✓ 1/32" aperture stainless steel mozzie screen
- ✓ Superior flow rate – collect more rainwater

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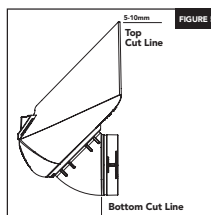
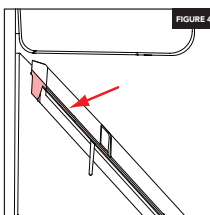
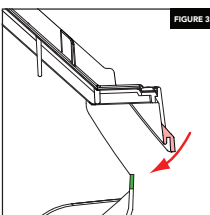
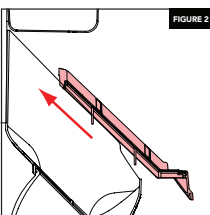
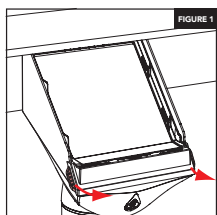
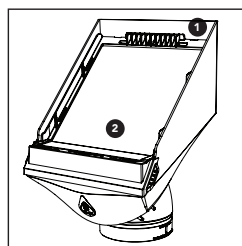
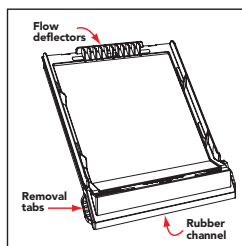
# INSTALLATION INSTRUCTIONS

## GUTTER & MID-MOUNT INSTALLATION

- STEP 1 Gutter:** Measure 11" from the bottom of the existing gutter pop and remove this section of downspout. Ensure the cut edge is clean and smooth.
- Mid-Mount:** Remove 11" of downspout where the Leaf Beater® is to be situated. Ensure all cut edges are clean and smooth.
- STEP 2** Remove the Clean Shield™ screen #2 whilst fitting the Leaf Beater®. Simply lift the Clean Shield™ screen out (FIGURE 1) by taking hold of the quick release tabs (red) and pull them outwards and upwards.
- STEP 3** Insert the Leaf Beater® by sliding it up over the cut section of pipe and then down into position. The Leaf Beater® outlet should be slid firmly onto the bottom downspout until it can be pushed no further.
- STEP 4** Fasten the unit to the fascia or wall with two rivets or screws through the back of the body #1 and into the fascia or wall.
- STEP 5** Insert the Clean Shield™ screen #2 into the rain head at approx 45 degrees (FIGURE 2) until the front rubber channel is nearly over the front lip of the body.
- TIP:** Wetting the rubber seal will help the screen slide into place.
- STEP 6** Fix the front of the Clean Shield™ screen #2 into place (FIGURE 3) by sliding the rubber channel (red) over the front lip (green) of the body.
- STEP 7** Reaching towards the back of the screen push down on the plastic frame (FIGURE 4) so that the rear edge (red) of the screen comes to rest on the body of the rain head.
- STEP 8** The Leaf Beater® is now ready for connection to the downspout. Do NOT glue the Leaf Beater® to the downspout. SECURE with a screw for easy replacement.

## HORIZONTAL (REAR OUTLET) INSTALLATION

- STEP 1** Lift the Clean Shield™ (FIGURE 1) screen out by taking hold of the quick release tabs (red) and pull them outwards and upwards.
- STEP 2** Swivel the outlet to the horizontal position – some force may be required.
- STEP 3** Position the Leaf Beater® next to existing pipework, mark and cut top and bottom cut lines as per (FIGURE 5). Ensure the cut edge is clean and smooth.
- STEP 4** Insert the Leaf Beater® by gluing the rear outlet into the horizontal pipe. The rear wall of Leaf Beater body #1 must sit behind the top section of downspout or gutter pop.
- STEP 5** Fasten the Leaf Beater® to the fascia or wall with two rivets or screws through the back of the body #1 into the fascia or wall.
- STEP 6** Insert the Clean Shield™ screen #2 into the rain head at approx. 45 degrees (FIGURE 2) until the front rubber channel is nearly over the front lip of the body.
- TIP:** Wetting the rubber seal will help the screen slide into place.
- STEP 7** Fix the front of the Clean Shield™ screen #2 into place (FIGURE 3) by sliding the rubber channel (red) over the front lip (green) of the body.
- STEP 8** Reaching towards the back of the screen push down on the plastic frame (FIGURE 4) so that the rear edge (red) of the screen comes to rest on the body of the rain head.

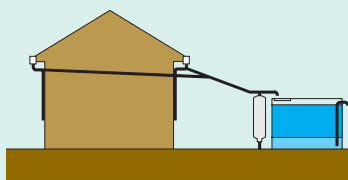


### Preferable Rainwater Harvesting Systems

To deliver optimum results, it is advisable to install a rainwater harvesting system that incorporates rain heads and a gutter mesh system to deflect leaves and debris and keep gutters dry, as well as a first flush water diverter and insect proof screens.

#### 'Dry' Systems

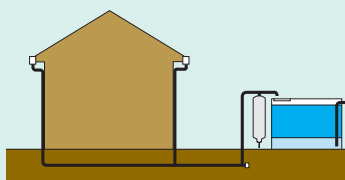
When pipes run direct from the gutter into the tank (not underground) they will drain and dry out. 'Dry' systems are preferable to 'wet' systems. Wherever possible, and especially with multi-level buildings, install 'dry' systems and fit a standard tank screen with 1/32" aperture at the downspout entry to the tank.



### 'Wet' Systems

When pipes go underground and then up to the tank, they will inevitably hold water after it rains. Legislation broadly says that when pipes hold water in this way, they must be screened with a non-corrosive screen of a maximum 1/32" aperture, to prevent the entry of mosquitoes and vermin. Mosquitoes are known to be responsible for many diseases including Dengue Fever and Ross River Fever. 'Wet' systems can be converted to 'dry' systems by installing an in-ground water diverter that not only diverts the first flush of contaminated water from the roof, but also drains water from the underground pipe system on a sloping site.

(For more information, visit [www.rainharvesting.com](http://www.rainharvesting.com)).



## HANDY HINTS

### PAINTING

Remove the Clean Shield™ screen when painting. It is not recommended to paint the frame of the Clean Shield™ screen.

### CLEANING

The Clean Shield™ screen is mostly self cleaning. If cleaning is required simply lift the Clean Shield™ screen out by taking hold of the quick release tabs and pull the Clean Shield™ screen upwards and outwards, then hose or brush off.

### PROTECTING THE HOME

#### General stormwater application

Rain Heads help ensure downspout do not block up with leaves and debris.