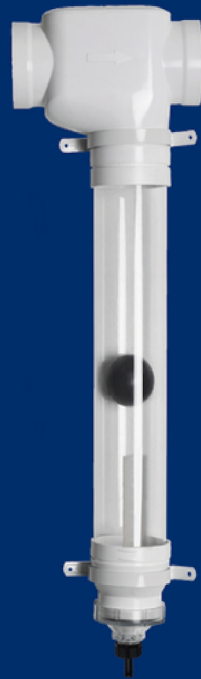


RAIN HARVESTING

by Blue Mountain Co

First Flush w/ Catch-All Tee



Installation and Specification Guide

PRODUCT DETAILS

Protect your rainwater quality by diverting the most contaminated water that washes off your roof with the first few millimetres of rainfall with a first flush diverter.

We've included the Catch-All Tee to ensure no water skips across the tee until the first flush of water is complete - which means you only capture the best quality water. It's a great step up from the Basic Tee.

Code	Size	Country
WDDP11	100mm	Australia
WDDP611	100mm/ 105mm/ 110 mm	EU
WDDP311	80mm	South Africa
WDDP211	80/100mm	New Zealand
WDDP111	4"	USA

Installation

WHAT'S IN THE BOX?

- Catch-All Tee
- Ball Seat
- 100mm/4" socket reducer
- 100mm/4" Pipe Wall Brackets x 2
- Sealing Ball
- Transparent, Rapid Release Exit Funnel
- Plastic Filter Screen
- Hose Connector
- Flow Control Washers x 8

TOOLS/MATERIALS YOU MAY REQUIRE

- 100mm pipe (for diversion chamber)
- Tape measure
- Marker pen
- Saw
- Solvent weld glue
- Screws
- Drill or screwdriver
- 2 100mm x 90mm in pipe reducers (for 90mm pipe installations)

INSTALLATION

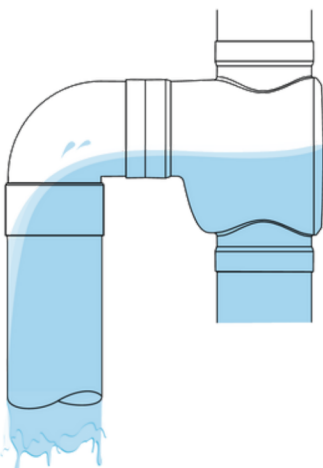
1 - Determine the length of 100mm (4") pipe required for your first flush diversion chamber. As a rough guide, 1 metre of 100mm pipe holds approximately 8.8 litres (3 feet of 4" pipe holds approximately 2 gallons). Ensure all cut edges are clean and smooth.

2 - The Catch-All Tee can be installed in the horizontal or vertical orientation to suit your installation. The outlet must be accessible for maintenance and inspection. (Refer to Figures 1a, 1b and 1c for suggested installation orientations).

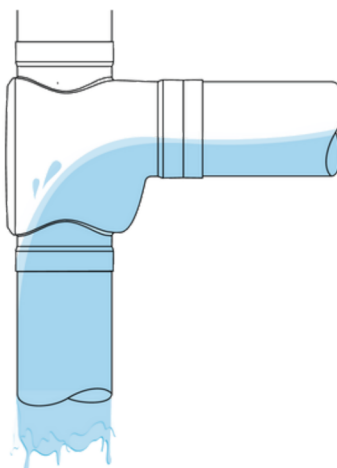
Figure 1

Suggested Installation Orientations

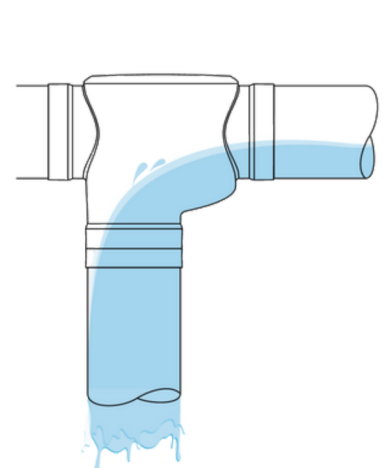
1a. Wet System or 'Charged'



1b. Vertical



1c. Horizontal



3 - Select the orientation of the Catch-All Tee appropriate for your chosen installation point. This will determine which socket on the Catch-All Tee will attach to your diversion chamber. (Examples: if you're installing your First Flush w/ Catch All Tee beneath a horizontal pipe, the arrow marking the direction of water flow should be oriented in the direction of flow, meaning the socket on the "branch" of the "T-junction" will attach to your diversion chamber. For installations where the "branch" is orientated horizontally, the arrow marking the direction of water flow should point UP so the water will initially flow into the diversion chamber.

4 - Orient the ball seat so it will fit inside the Catch-All Tee socket that will attach to your diversion chamber, then apply solvent weld glue and press it hard up inside the socket.

5 - If you are attaching your First Flush w/ Catch All Tee to existing 90mm downpipes, install 100x90mm in pipe reducers into the remaining Catch-All Tee sockets. If you are attaching your First Flush w/ Catch All Tee to existing 100mm downpipes, reducers are not required.

6 - Measure your existing downpipe and cut to create space for the Catch-All Tee. The outlet of your diverter must sit at least 150mm (5.9") from the ground when fully assembled, so select your installation point and measure and cut accordingly. Ensure all cut edges are clean and smooth. Position your First Flush w/ Catch All Tee T-junction in place by applying solvent weld glue to the sockets and pipe. Insert the pipe into the sockets or socket adaptors at either end of the Catch-All Tee.

7 - Apply solvent weld glue to the end coupling socket and one end of your 100mm diversion chamber pipe and insert it firmly into the end coupling.

8 - Apply solvent weld glue to the socket of the ball seat and the other end of your 100mm diversion chamber pipe then insert it firmly into the socket and against the ball seat.

9 - Attach to the wall using the supplied brackets, supporting the unit until it is fully secured. The upper bracket should sit directly under the Catch-All Tee where it will hold the weight of the unit.

10 - Place the ball inside your first flush diversion chamber through the end coupling and firmly screw the transparent, rapid release exit funnel with O-ring onto the end coupling to ensure a good seal.

11 - Select the appropriate flow control washer and fit it into the hose connector with the side marked "TOP" showing. Start by using the Control Washer with the smallest gauge hole (lowest number). Try a larger gauge Washer if experiencing blockages. Save the remaining washers for possible future use. Insert the plastic filter screen in through the base of the Transparent, Rapid Release Exit Funnel and secure by attaching the hose connector and flow control washer.

DIVERSION CHAMBER SIZE

Determine the length of 100mm (4") pipe required for your first flush diversion chamber. As a rough guide, 1 metre of 100mm pipe holds approximately 8.8 litres (3 feet of 4" pipe holds approximately 2 gallons) of water.

POLLUTION FACTORS

The following factors can be used as a guide to determining the volume of water to be diverted.

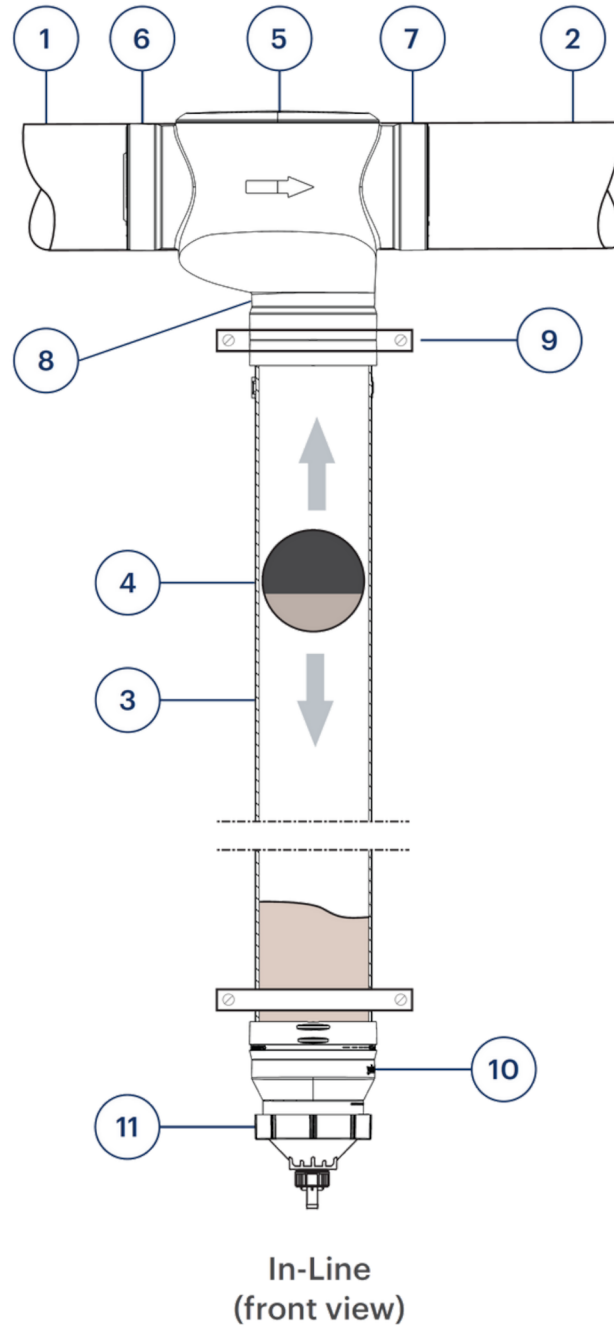
POLLUTION FACTOR FOR THE ROOF	
MINIMAL POLLUTION	SUBSTANTIAL POLLUTION
<p>DIVERT 0.5L PER M2 (0.0125 GALLONS PER FT2)</p> <p>Open field, no trees, no bird droppings, clean environment</p>	<p>DIVERT 2L PER M2 (0.05 GALLONS PER FT2)</p> <p>Leaves and debris, bird droppings, various animal matter, e.g. dead insects, skinks, etc.</p>

The above quantum are the results of preliminary testing. Individual site analysis and field testing is required to more accurately assess the quantum to be diverted in each individual case.

DIVERSION FACTOR FOR A FIRST FLUSH WATER DIVERTER	
MINIMAL POLLUTION	SUBSTANTIAL POLLUTION
<p>M2 (or FT2) ROOF AREA X POLLUTION FACTOR</p> <p>=</p> <p>LITRES TO BE DIVERTED</p>	
<p>Example for a minimal polluted roof of 100m2 100m2 x 0.5 = 50 litres to be diverted</p> <p>Example for a minimal polluted roof of 1000ft2 1000ft2 x 0.0125 = 12.5 gallons to be diverted</p>	<p>Example for a heavily polluted roof of 100m2 100m2 x 2 = 200 litres to be diverted</p> <p>Example for a heavily polluted roof of 1000ft2 1000ft2 x 0.05 = 50 gallons to be diverted</p>

REFERENCE CHART

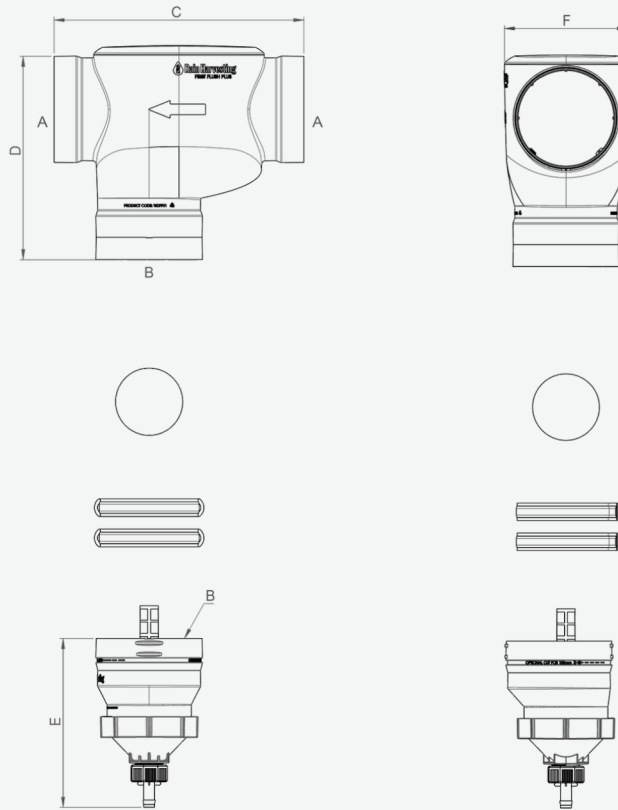
The following factors can be used as a guide to determining the volume of water to be diverted.



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- | | | | |
|---|-----------------------|----|--|
| 1 | In-feed from the roof | 8 | Ball seat |
| 2 | To the tank | 9 | Pipe/Wall Brackets |
| 3 | Diverter Chamber | 10 | Socket Reducer |
| 4 | Sealing Ball | 11 | Transparent, Rapid Release Exit Funnel |
| 5 | Catch-All Tee | | |
| 6 | Chamber Inlet | | |
| 7 | Chamber Outlet | | |

Product Specifications

First Flush w/ Catch All Tee



Country	Code	A	B	C	D	E	F
Australia	WDDP11	100 F	100 F	283	230	191	140
EU	WDDP611	100 F / 105 F / 110 F	100 F / 110F	283	230	191	140
South Africa	WDDP311	80 F	110 F	287	230	191	140
New Zealand	WDDP211	80 F	100 F	287	230	191	140
USA	WDDP111	4" SCH40 F / SDR35 F	4" SCH40 F / SDR35 F	11.1"	9.1"	7.5"	5.5"

All dimensions are in mm unless otherwise stated.

Fitting guide:

F = Female / Socket Fitting

M = Male / Spigot Fitting (Pipe size)

IP = In-Pipe Fitting

Maintenance

It is important to ensure that your first flush diverter outlet remains clear of any debris. If your outlet becomes blocked, the chamber will not empty and the first flush of water will not be diverted when it rains.

To ensure the flow of water through your diverter's outlet, periodically unscrew the outlet to allow debris to fall out. If the diversion chamber is full of water, take care as it empties.

Remove the hose connector, flow control washer, and filter screen and hose or wash the screen with clean water. Check the flow control washer for any blockages and remove and clean as necessary.

For best results and minimal maintenance, we recommend installing rain heads such as our Leaf Eater rain heads on all your downpipes to limit the volume and number of leaves and debris that reach your first flush diverter.



A common misconception about collecting rainwater is that all you need is a roof, a tank and some rain. This 'tanking' approach cannot always be relied on to deliver the volume – or quality – of water that you require. That is where we can help.

With some thought, your rain harvesting system can provide you with cleaner water and lots of it. Whether you're completely reliant on tank water or wanting to keep the garden green, our simple steps will help you achieve your goal.

The Rain Harvesting approach to rainwater collection involves using tested and proven products to make quality rainwater available for use in and around your property. You don't need much to get started and you will be surprised how easy it is to get the most out of your rainwater system.

[How can we help you?](#)

DISCLAIMER This product specification is not a complete guide to product usage. Further information is available from Rain Harvesting Pty Ltd and from the installation and Operating instructions. This specification sheet must be read in conjunction with the installation and Operating Instructions and all applicable statutory requirement. Product specifications may change without notice. © Rain Harvesting Pty Ltd

RAIN HARVESTING

by Blue Mountain Co

For more information or to find out
how we can help, just give us a call on

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Or visit our website at

rainharvesting.com