

Amanzi Rainwater Diverter ARD 23.10

Installation Instructions

Downspout requirements: The Amanzi Diverter fits standard 2" X 3" downspouts with curved corners found at Lowes and Home Depot. Unfortunately, not all downspouts are exactly the same due to manufacturing variations. If your downspout does not fit you may have to force it into the diverter ends or cut the downspouts sides to make it fit. You can use 3" X 4" downspouts with adapters.

Parts List

- 1 - Rainwater diverter half - ARD 23.10 A
 - 1 - Rainwater diverter half - ARD 23.10 B
 - 3 - 2 1/4" stainless steel bolts
 - 2 - 1 1/4" stainless steel bolts
 - 5 stainless steel wingnuts
 - 10 - 1/4" stainless steel washers
- The diverter is very easy to install. There are no moving parts or small parts to break or lose.
 - Stainless steel washers, bolts and wingnuts are included and shipped in the internal chamber.
 - The wingnuts can be installed on either side. The diverter can face right or left. Both sides are identical.
 - The diverter halves can be bolted together before mounting it on the downspout or after mounting it.
 - For the desired water level, align the inside bottom of the 4" opening to the maximum water level you want.
 - After aligning the diverter for the water line, use the 1 1/2" markers on the diverter to mark the downspout cut lines.
 - The cut lines indicate the 8 inches needed removed to mount the diverter. Cut out the eight inches.
 - Make the cuts straight so the downspout abuts against the 2 mosquito barriers.
 - Your diverter may need to be supported with downspout straps if your downspout is too loose to hold the diverter.

Using the UP arrow, point the UP end of the diverter toward the roof.

Bolt the two sides of the diverter together with the bolts, washers and wingnuts. The three 2" bolts go into the 3 holes on the flat side of the diverter.

Note: The bolts are extra long and the holes are recessed making it easier to faster the wingnuts.

Push the downspout against the mosquito barrier (the outside ridge).

Insert the downspout coming from the roof into the top end of the diverter.

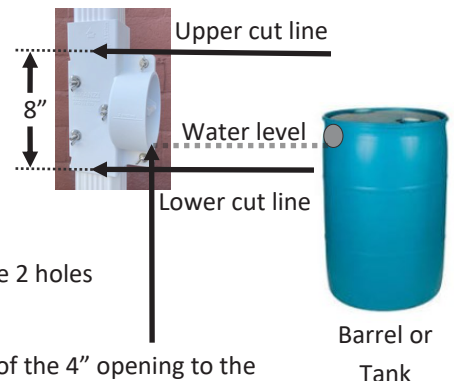
Push the downspout against the mosquito barrier (the inside ridge).

The two 1" bolts go into the 2 holes near the 4" pipe opening.

Match the bottom inside of the 4" opening to the maximum height you want for the water level in your tank. When the tank exceeds this level, excess water will continue down the downspout. Note: The pipe connections must be water tight. You cannot simply dump the water into the top of the tank. It will overflow.

Make sure the diverter is level. If water goes down the downspout before the tank is full, the diverter may not be level or needs to be tilted slightly downward.

Insert the bottom of the diverter into the downspout



Amanzi Rainwater Diverter

Model No: ARD 23.10

Patent No: 8,424,557 B1

Made in USA

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Ordering

We use Square as our payment processor. All standard credit cards are accepted.

www.AmanziProducts.com has a link to the Amanzi Products Square account

Amanzi Rainwater Diverter Installation and Considerations

1. **Downspout measurements.** Most downspouts are 2" X 3" but the actual size varies by manufacturers. The Amanzi Diverter measurements are based on downspouts stocked by Home Depot and Lowes. These downspouts also have curved corners. The Amanzi Diverter is designed for the curved corners to prevent mosquitos from entering the water storage tank. If your downspouts are too big or have square corners you may need to force it, cut the corners or modify the downspout to fit. The other option is to buy an inexpensive adapter. You can also find adapters for connecting a 3" X 4" downspout to a 2" X 3" downspout. When everything is tested, due to the variation in manufacturing processes you may find the need to caulk some fittings to prevent water leaks.
2. **Filters.** The Amanzi Diverter has no filters because built-in filters do not work. They are too small to be effective and they plug too easily. They require constant cleaning and are a nuisance. Filters between the roof and the diverter are also problematic. They also plug easily or fail to filter the small debris. By far the best solution, and one we highly recommend and use ourselves, is to filter at the gutter level. Install quality gutter guards. We do not recommend the plastic ones. They are less expensive but do not hold up over time. Stainless steel gutters are far superior. Gutter guards stop the leaves and debris at their source preventing them from getting into the diverter and storage tank. A fine filter is also highly recommended at the tank outlet. It will help prevent tiny particles from clogging drip irrigation and toilet valves.
3. **Two parts.** The Amanzi Diverter comes in two parts in order to make it easier to install, inspect and remove. The diverter comes with stainless steel bolts, nuts and washers.
4. **At what height to mount the diverter.** There are two options to consider when mounting the diverter. If your tank fittings are water tight then you can mount the diverter anywhere.. The water flow will return to the downspout when the tank connections fill up. If the system is not water tight install the diverter outlet level with the desired water level in the tank (see illustration). When the water level reaches the bottom of the diverter outlet the excess rainwater will continue down the downspout. The diverter needs to be level or slightly tipped downward to capture all of the rainwater. By returning excess water to the downspout, the diverter eliminates the need for a separate outlet and piping for the overflow.
5. **Mounting the diverter.** To install the diverter in your downspout, you will need to remove an 8" section from the downspout. For a snugger fit you might cut out a slightly shorter section. There are measurement guides on the outside of the diverter you can use to mark the cut lines. A hacksaw works best for cutting the downspout. There are different types of downspout brackets that can be installed to tighten the downspout to the wall if needed.
6. **A downspout filter.** If the bottom of the downspout is open to the air then some type of filter needs to be installed below the diverter to prevent mosquitoes from going up the downspout into the storage tank.
7. **How many diverters are needed.** The number of diverters needed will depend on the roof(s), the tank size, local rainfall and the storage goals. Usually people will use 2 to 4 diverters to collect rainwater from different downspouts. There are many tools on the internet to figure out your needs and the amount of rain coming off of the roof(s). When connecting more than one diverter to the same water tank, you will need to be sure that they are mounted at the same height.

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