

**Santa Monica**  
**Filtration**®

# **Pole Mount**

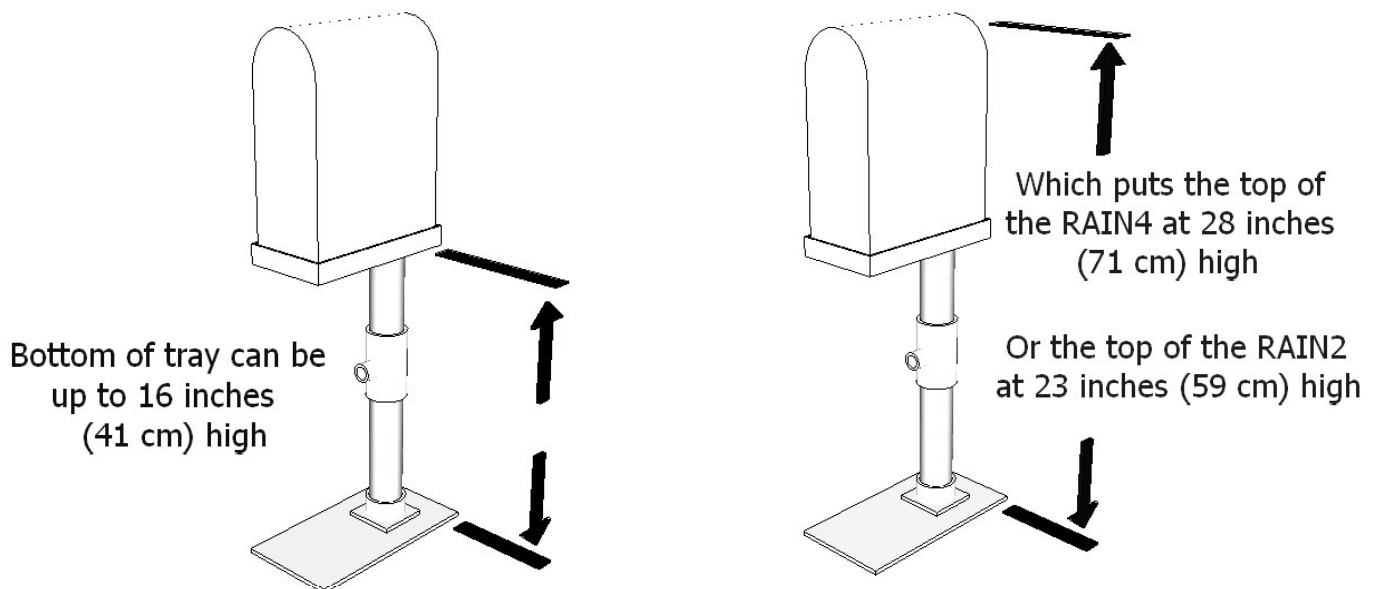
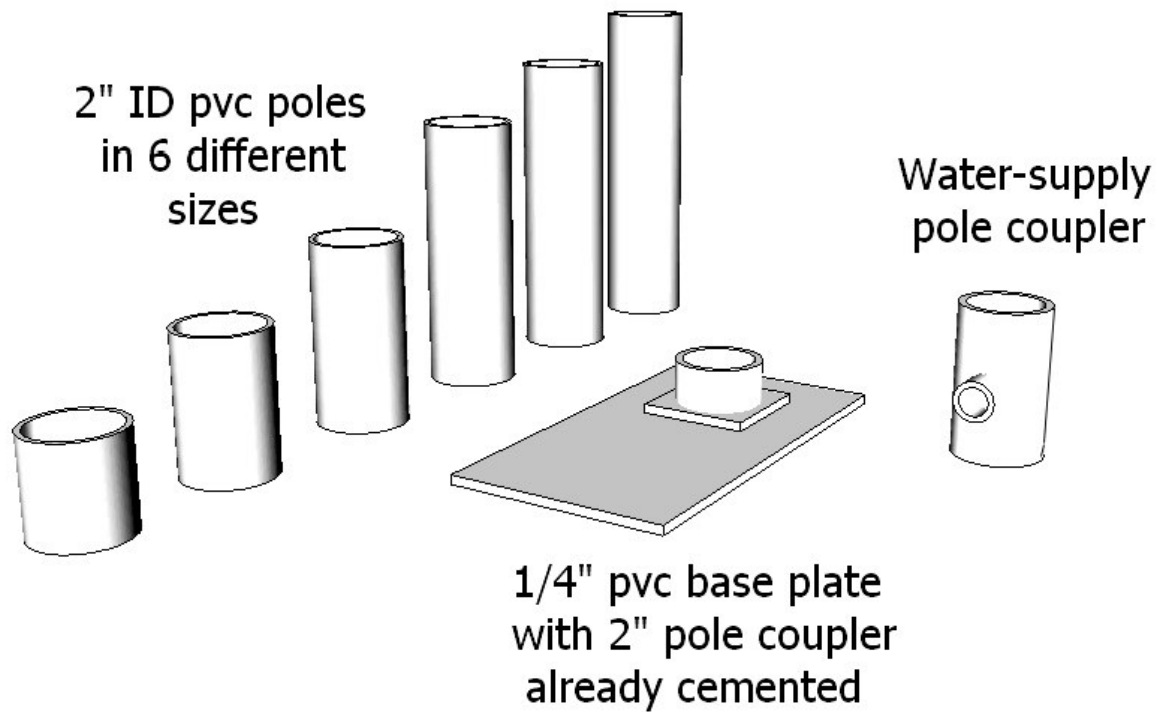
**In-Sump Mount Set**

**Optional for RAIN2**  
**Included with RAIN4**

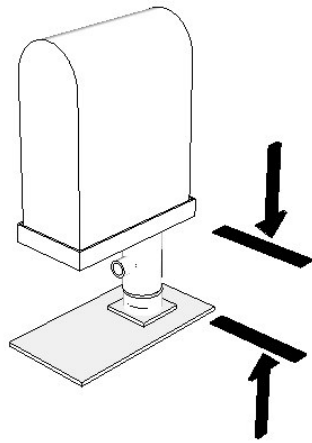
**Updated March 2018**

For questions or to post pictures of your sump, go to [www.AlgaeScrubber.net](http://www.AlgaeScrubber.net)  
For additional filters: [www.Santa-Monica.cc](http://www.Santa-Monica.cc)

# What the pole mount includes

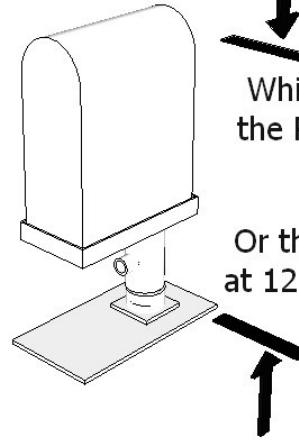


Bottom of tray can be as low as 7 inches (18 cm) high by using the short poles

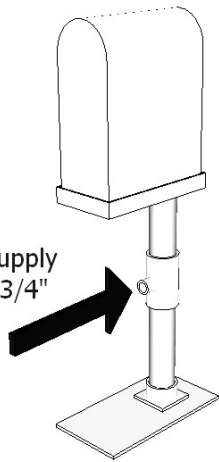


Which puts the top of the RAIN4 at 19 inches (48 cm) high

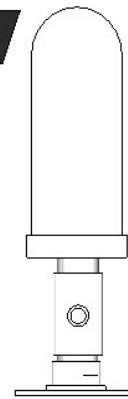
Or the top of the RAIN2 at 12 inches (31 cm) high



Water supply inlet is 3/4"



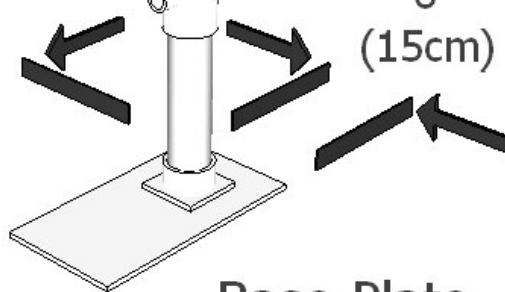
Only needs 2 inches (5 cm) of vertical head room to remove dome lid



11" (28cm)



6" (15cm)



Base Plate

Thank you for your purchase of the pole mount set for RAIN waterfall algae scrubbers. This pole mount set is optional for the RAIN2, and is included with the RAIN4. The pole mount allows for easy one-handed scrubber removal, easy height adjustments, a very small footprint inside your sump, and it eliminates the need to turn the water off when removing the RAIN unit from the sump.

**Pole Mount:** The pole mount set (which fits both the RAIN2 and RAIN4) includes 6 pole segments of different lengths, and when combined with the water-supply pole coupler, allows the bottom of the RAIN tray to sit as low as 7 inches (17 cm) from the bottom of your sump, to as high as 16 inches (41 cm) from the bottom of your sump, and all heights between, in one-inch increments. This allows the bottom of the RAIN tray to be positioned exactly at your sump water surface level so that there is no falling water at all, and no drain pipe is needed. Also, since the pole mount pieces do not require cementing, you can adjust the height of the RAIN at any time by swapping out the lengths of pole mount pipe (don't throw unused ones away!). This is very handy when you add or remove other items from your sump, or when you decide to change your sump water level height.

**Water Supply With Pole Mount:** For the RAIN4 which includes the pole mount, or the RAIN2 if you get the optional pole mount, the 2" diameter pole supports the whole filter, is very sturdy, and **supplies the water too**; this is the recommended mounting and water supply method. Because the coupler on the top of tray is designed for a loose fit onto the 2" diameter pole mount, you do not need to cement it (and do not cement anything to the tray itself). This allows you to change the position of the tray by rotating it on the pole mount. You can use flexible 3/4" (18mm) water supply tubing connected to the included gray barb adapter, and push the barb adapter into the side of the water-supply pole coupler. To hard-pipe to the pole mount instead, just run 3/4" pipe to the 3/4" inlet of the water-supply pole coupler (see drawing) using your own connector fitting to go inside the 3/4" diameter. The water-supply pole coupler is a standard Schedule 40 version 2 x 2 x 3/4" reducing T fitting.

**Pole Mount Tightness:** The tightness of the RAIN tray fitting onto the pole mount is adjustable, and can vary from a very loose fit where the tray can freely spin around on the pole and be lifted up with just a finger, to a very tight fit where you have to push the tray down to get it onto the pole and where you have to grip the pole with one hand and lift the tray with the other hand to get the tray off. A loose fit might be preferred if you need to rotate the tray in order to get it out of the way of other equipment in your sump, or if you want to be able to lift the tray with one hand. A tight fit might be preferred if you want the tray to stay in position and not move in your sump, or if you won't be removing the tray at all. The upflowing water is not strong enough to push the tray up, even with a very loose fit, and will not spray upwards when you remove the tray.

To make the tray more loose, just rotating the tray around on the pole might be enough. After several rotations the fit will loosen up. If this is not loose enough, then use 180 grit sandpaper on the pole, inside and outside, and then use air or water to wash off the plastic particles from pole and the slot. Replace the tray onto the pole and rotate the tray around several times again. Repeat the sanding, washing and rotating until the fit is what you want.

To make the tray a tighter fit, you can make cuts into the inside and outside of the pipe with a strong knife; this will make pieces of plastic stick out, which will make a tighter fit in the tray slot. If this is not tight enough, you can melt some deeper lines into the pipe with a soldering iron.

**Water Pump:** The RAIN2 and RAIN4 **require at least 200 gph** (760 lph) water flow 24 hours a day, although 300 gph (1135 lph) might be better to fill up all areas of the screen. If a dedicated pump is used, then the height ("head") of the filter will require the pump to pump up to that level and still supply enough water. Generally, a

400 gph (1500 lph) pump with an adjustable output works in most cases. If the output of the pump is not adjustable, you can control it by pinching the water hose with something. Water can also be taken from your return pump; in this case a T fitting from your return would go through a valve and then to the RAIN. The water can also be fed from your display overflow; any type of overflow system (Herbie, etc) will work. The RAIN2 and RAIN4 can handle 300 gph (1135 lph) continuously, and 400 gph (1515 lph) intermittently.

**Warranty:** This Pole Mount comes with a 6 month warranty from the date of purchase, for the original purchaser. Warranty is for replacement or repair only; not a refund. Costs for shipping back to us are not covered, however we will pay for shipping back to you. In either case, you will need to ship the entire unit back to us before we can ship a replacement.

**Warranty is limited to repair or replacement, and does not cover fish loss, personal injury, property loss, or direct, incidental or consequential damage arising from the use of it. The warranty and remedies set forth above are exclusive and in lieu of all others, whether oral or written, express or implied. We specifically disclaim any and all implied warranties, including but not limited to lost profits, downtime, goodwill, damage to or replacement of other equipment and property, and any costs of recovering animals, plants, tanks or other aquarium related items and/or equipment. We are not responsible for special, incidental, or consequential damages resulting from any breach of warranty, or replacement of equipment or property, or any costs of recovering or reproducing any equipment, animals or plants used or grown with this product.**