

# DIY 3 Gallon Bubbleponics DWC

© 2009 [DiggityDank420](http://DiggityDank420.com) – RollItUp.Org

This is version 2 of my 3 gallon Rubbermaid DWC system.



## Table of Contents

Materials Needed .....	2
Construction Instructions .....	7

## Materials Needed

For each Bubbler you are making you will need the following:

(1) 3 gallon "Rubbermaid" tub (I purchased mine at Lowes)



(1) Tube silicone caulk (got @ Wal-mart)



(1) 10" air stone (Wal-Mart aquarium/pet aisle)



(1) air pump (Wal-Mart aquarium/pet aisle)



(1) 8' air hose (walmart aquarium/pet aisle)



(1) lighter and (1) knife/screwdriver, etc. about the size of the tubing



## Construction Instructions

1. Of, first on the to-do list is finding out where to place the hole for the air pump inlet. I suggest having a friend help by holding up the tub with the air pump against the side to a bright light so that you can see where to punch your hole. You can mark it with a sharpie or punch it up in the air, that's what I did.

Be careful though, don't go too high or too low or the alignment will be off. I found that a tiny bit low works best!!!



This is how I punch holes in plastic:







I would have shown us doing this hole, but we didn't have enough hands to hold a camera, but this is the end result:



Now get your air stone and your caulk.

Put a dab of the caulk all around the base of the inlet shaft and don't be stingy, you want a good seal. And put some big gobs on the bottom of the airstone as well, it's going to be an adhesive.



Now stick it in the hole!



Put some more caulk around the outside (hopefully you don't have as much dog hair in your home)



Make sure everything is secure!



OK, now let's give ourselves a reservoir level indicator! This allows us to see how much water is in the reservoir without having to open it and look in. It's a simple system that uses natural water pressure. If you can, use a green colored tube, or you will get algae inside the tube (light + water = algae).

Start by punching holes near the top and bottom like so:









Now tie a simple knot in the end of your plastic tubing, don't tie it too tight!



Take the other end of the hose and push it through the top hole from the inside of the tub:



Pull through until the knot stops:



Now take the end of the hose and push it through the bottom hole:



Pull through until it leaves just a little bit of slack:



Cut away the excess tubing



Seal the hole with silicone:





Make sure everything is straight



Let the silicone cure for at least 24 hours just to be certain and you're done!

Just hook up your air tube to the outside and you're ready to bubble!



Here are some pictures of the system at work.



