

# **SMALL GREENHOUSE**

**Fight the Mega-Drought  
and Quench Your Family's  
Thirst**

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Don't go spending a lot of money on powerful dehumidifiers. The bigger the dehumidifier, the more it will consume. It is possible that your unit is different than what we used in the making of this project.

Take your time and inspect it first. See which screws you'll have to take out to get the job done. Do not use brute force. When building the device, remember! It doesn't have to be pretty. It has to get the job done.

Never drink water directly from the tap. Use a glass or a mug. The water pump runs on electricity. It's not dangerous under normal circumstances. But it should be a precaution.

No matter where you get your water from, you'll need to have a way of purifying it. City water is purified and treated to remove dangerous pathogens from it. It is also monitored for chemicals and dangerous minerals. If you are supplying your own water, you will need to watch for these dangers yourself

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# **GREENHOUSE PARTS, TOOLS & TIPS**

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## Parts & Tips

### 1. Garden Pavilion



- The pavilion should be white or transparent so sunlight can pass through it and create a greenhouse effect. You'll find it between \$15 to \$50 at your local home-garden store.

**2. Plastic foil for greenhouse covering**



- The foil should have the width equal or greater than the pavilion height. You'll use it to make the walls. You'll find it between \$1 to \$10 at your local home-garden store.

### 3. Metal or wooden spikes



- You'll need the spikes to tie the pavilion to the ground so wind won't blow it away. 4 pieces will do. Should be at least a foot in length so it'll drive firmly into the ground. You'll find it between \$1 to \$5.



# Tools & Tips

## 1. Screwdriver



- You'll need a cross screwdriver to puncture the foil and tie it to the pavilion.

## 2. Duct tape



**3. Scissors**



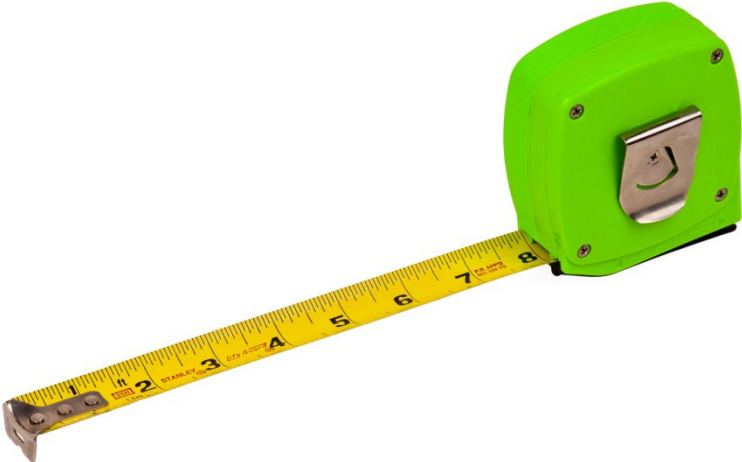
**4. Hammer**



**5. Box cutter knife**



**6. Measuring tape**



**7. Cable Ties**



**13. Pliers**



**16. Shovel**



## Additional Tips

- The greenhouse should be built in an open area so sun can heat the air inside.
- The dehumidifier will condense more water if placed inside a greenhouse. The air temperature will be higher, making it easier to condensate. But the greenhouse shouldn't be sealed shut. Air has to flow through it to replace the dried-up one. To do this either lift one of the walls to a foot high, or raise one of the front sides.
- It's not a problem if, in case of rain, water drips along the walls from the holes you made with the screwdriver. It will add moisture inside and the dehumidifier will collect it. Just make sure it won't leak on the device itself.
- Make sure you tie the greenhouse firmly to the ground so wind won't blow it away.
- If the dehumidifier starts condensing less water in the same atmospheric conditions (no change in humidity or temperature outside), open the greenhouse so fresh air can reach the device.
- Adding leaves or having grass on the ground inside the greenhouse will increase the collected water quantity, as plants give out moisture.

I used a garden pavilion for its structure and roof.

This can be a one man job. But it's way easier if someone lends a hand. My son helped me and we finished it in just a couple of hours.

First, measure the base so you have an idea of the setting. My pavilion is 9 by 6 feet at the base and 7 and a half feet high.





Assemble it using the provided instructions.









After you finished building it, nail it to the ground. My pavilion had the spokes included.







Now tie the strings that came with it and stretch them to the ground diagonally opposed on each corner. I used 4 metal spokes hammered deep, so wind wouldn't blow it away.



It's time to add the walls. Make sure the plastic foil extends about a foot on the ground too. You'll have to secure it using metal spokes later on.



Use plastic ties to tie the foil to the roof no more than one ft apart. Do it just like you see in the video.







After you've finished connecting the foil to the roof, it's time to tie the corners. Run a plastic tie through the foil and around each pillar. 4 ties on each one will do just fine. Do it as you see in the video.





Now let's secure the foil in the ground. Use wood or metal spokes made of steel wire. This will prevent wind blowing beneath the walls.





We're almost done!

Roll each of the front wall halves from the ground up. When you're done building the Water Alchemist you can lower them so the temperature will rise inside, while leaving enough space for fresh moist air to enter.





And congratulations. You and your new greenhouse are ready for the next step!

