

# **SOLAR STILL**

**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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# **SOLAR STILL PARTS, TOOLS & TIPS**

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# Parts & Tips

## 1. 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.

## **2. Kitchen Pot**



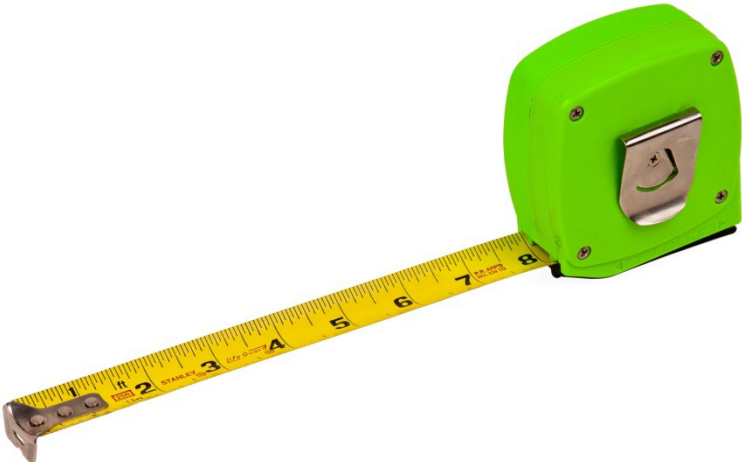
# Tools & Tips

## 1. Scissors



## 2. Measuring tape





**3. Shovel**



## Additional Tips

- The solar still is a great way of collecting water in survival situations. It can literally draw water from the desert.
- The hole in the ground should be around 3 feet in diameter and a foot or more deep. The deeper you go, the more water you'll collect.
- Placing leaves or grass on the bottom of the whole will increase the water quantity you collect.
- You can get up to a gallon of water from a solar still, depending on the size of the hole.
- The plastic foil should be pointed down at a 45 degree angle right above the pot. So water will drip inside it.

- To maximize the water quantity, tap the foil every 10 minutes. That way you'll force the water to drip faster into the pot.

First, dig a hole in the ground. Should be about 3 ft in diameter and 2 ft deep.





After you're done digging the hole, place a pot or a bowl in the center. If you have leaves and grass near you, put some inside the hole around the pot. It will drastically increase the still's efficiency.



Now place a plastic foil over the hole. Use 4 weights or rocks to set the foil in place so it won't be blown off by wind.



Place a weight in the center of the hole, right over the pot, and push it so it will be at approx 45 degree angle.



Use the dirt you removed from the hole and put it all around the edge of the foil. This will ensure humid air won't leak.







The still should be built in the evening, or early in the morning before sunrise.

We'll rely on the sun to get the clean water out of the ground.

Let it collect water through the day.



Enjoy cool, crystal clear water.

