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The Parts and Tools Checklist

Atmospheric water generation (AWG) is a method that harvests fresh water from the air. This method is environmentally friendly and relies on the principle that there is more than 3.4 quadrillion gallons of water in the atmosphere at any given time because of the hydrologic cycle of evaporation, condensation, and precipitation.

Water that is generated by this method goes through both UV light and/or ozone water purification techniques and is run through a carbon filter, which means the water produced does not need to go through additional treatment. You can purchase this type of system at online stores that sell survivalists and naturalists equipment or you can build it yourself...

It's way easier and cheaper!

Just follow the step –by-step guide below and you will have your own emergency water supply right in the comfort of your home

Here's what you'll need to build your own Aqua Tower:



The Parts:

- 💧 **New Dehumidifier** – one that is compressor based. – You can find them from \$100 to \$200



- 💧 **A Water Filter Dispenser** - You can find them from \$12 to \$49



- 💧 **Cabin Air Filter** – to replace the dehumidifier mesh filter. – You'll find them from \$5 to \$40





***** The Dupont High Allergen Care MERV 11 Air Filters** - This product traps impurities and diminutive solids before they become airborne. These electrostatic air filters are essential for all allergy sufferers

- 💧 **Water Filter Tap** – You can use any kind of tap. A new one goes from \$5 to \$30



- 💧 **Submersible Water Pump** – usually found in aquarium shops. These retail from \$20 to \$50





💧 **AC ON/OFF Switch** – Found from \$2 to \$10



💧 **Clear Vinyl Tubing** – different diameters – You can get all of them for about \$10-\$15





💧 **Lighting cable** – 2 wires inside. From \$2 to \$10



💧 **55 Gallon Plastic Barrel Drum and Lid** – A new one can cost from \$20 to \$75





💧 **Round Piece Of Plywood** Measuring The Same Diameter Of Your Water Barrel





💧 **Metal L-Shaped Corner Brackets - ~20 pcs. Big And Small**



💧 **Nuts and Bolts**





The Tools:

💧 Screwdrivers



💧 Duct Tape



💧 Scissors





💧 Permanent Marker



💧 Box Cutter Knife





💧 Measuring Tape



💧 Metal Hacksaw



💧 Power Drill





💧 Different Drill Bits



💧 Double Sided Tape





💧 Pliers



💧 Insulating Tape





💧 Lighter



💧 Sanitary Silicone & Sanitary Silicone Gun



💧 Wrench Set





💧 JigSaw



💧 Drill Cone Drill Bit





Additional costs for tools and parts ~\$100.

Therefore you can build a Aqua Tower with around \$270 in total costs.

But you might have some of the parts already in your home. This will reduce the building costs significantly. Also, you can buy some of the parts at local flea markets or you can even find some of them at the junkyard.

Obviously if you want to take it one step further, feel free and experiment with more expensive parts and tools. Whatever path you chose – the system you'll end up with - will deliver! It's just up to you how much you are willing to invest in your new water source.

Where to Find The Parts And Tools – Quick Online Buy Guide:

We have assembled a list with all the parts and tools and where to find them. Please keep in mind that the list below represents our view on the



project. If you would like to invest more and build your Aqua Tower even more efficient and robust, obviously the costs will go up.

1. **Dehumidifier** – this one is a good value for money:

<https://www.walmart.com/ip/Keystone-70-Pint-Dehumidifier/180896539>

2. **Water Dispenser** –

<https://www.amazon.com/Saqua-Water-Purification-Dispenser-System/dp/B079Y46X7T>

3. **Cabin Air Filter** – here's a good one to use for your project:

https://www.amazon.com/EPAuto-CF10285-Toyota-Premium-Activated/dp/B014TYRQUY/ref=sr_1_1_sspa?keywords=cabin+air+filter&qid=1551797779&s=gateway&sr=8-1-spons&psc=1

4. **Water Filter Tap** –

https://www.amazon.com/dp/B072FNRNXW/ref=sspa_dk_detail_1?psc=1&pd_rd_i=B072FNRNXW&pd_rd_w=xle5Y&pf_rd_p=80559f3c-f83b-49c1-8a72-40f936e9df7a&pd_rd_wg=vIKgt&pf_rd_r=NTQYEB6APMW2AC55MZX7&pd_rd_r=369db34a-3f57-11e9-99fe-937f2c1eb4e1

5. **Submersible Water Pump** –

https://www.amazon.com/VicTsing-Submersible-Aquarium-Fountain-Hydroponics/dp/B00EWENKXO/ref=sr_1_5?keywords=Submersible+Water+Pump&qid=1551798004&s=home-garden&sr=1-5

6. **AC ON/OFF Switch** –



https://www.amazon.com/Magic-shell-2-Pack-Rocker-Position/dp/B07D27W6X7/ref=sr_1_3_sspa?keywords=AC+ON%2FOF+F+Switch&qid=1551798067&s=gateway&sr=8-3-spons&psc=1

7. Vinyl Tubing –

https://www.amazon.com/TotalPond-Vinyl-Tubing-1-2-inch/dp/B004DL0Y9O/ref=sr_1_4?crid=3CKWSIW207NM6&keywords=vinyl+tubing&qid=1551799666&s=gateway&srefix=vynil+tub%2Caps%2C271&sr=8-4

https://www.amazon.com/50-Fee-Multipurpose-Kegerator-Aquaponics/dp/B07CPMS5MQ/ref=sr_1_11_sspa?crid=3CKWSIW207NM6&keywords=vinyl+tubing&qid=1551799738&s=gateway&srefix=vynil+tub%2Caps%2C271&sr=8-11-spons&psc=1

8. Electric Cable –

<https://www.ebay.com/itm/Equipment-Wire-Stranded-Copper-Cores-Muti-18AWG-28AWG-Cable-DIY-Electrical-Wire/400801724991?hash=item5d51a4fa3f:m:mo5CwnD8ZY0zNfOvMA DS w7w&frcectupt=true>

9. Water Barrel – here is a good example that you can use:

<https://www.ebay.com/itm/200-LITRE-BLACK-WATER-BUTT-WITH-STAND-TAP-LID/220944642676?epid=1188233804&hash=item337153b274:g:WWQAAOSw48dbHYtX:rk:3:pf:1&frcectupt=true>



10. **Round Plywood** – this depends on the inner diameter of your water barrel. Here's a seller that provides multiple dimensions and thicknesses:

https://www.ebay.com/itm/Round-plywood-circle-cut-to-size-table-desk-birch-bonded-hardwood-solid-panel/253320314037?hash=item3afb113cb5:m:m8V3B_xnLQTqw75aNHjPQXg

11. **Metal Corner Brackets** – You can find plenty of sizes on Amazon. Here's a suggestion:

https://www.amazon.com/Arks-Royal-Corner-Brackets-Fastener/dp/B076DHYWYV/ref=sr_1_46?keywords=Metal+L-Shaped+Corner+Brackets&qid=1551800947&s=gateway&sr=8-46

12. **Nuts and Bolts** –

https://www.amazon.com/Bolts-Nuts-Washer-Assortment-Pieces/dp/B019PXB6Z0/ref=sr_1_4?keywords=Nuts+and+Bolts&qid=1551801036&s=gateway&sr=8-4

13. **DUPONT AIR FILTER-**

<https://www.walmart.com/ip/20x25x1-Dupont-High-Allergen-Care-MERV-11-Air-Filters-2-Pack/847073293>

