

WHAT IS A DEEP WATER CULTURE SYSTEM?

Deep Water Culture (DWC) is a direct method of hydroponic farming. As the term “deep” suggests, plants in DWC systems are housed in large buckets or totes and immersed completely in highly aerated water. Liquid nutrients are then added to the system to help cultivate the perfect growing environment for a variety of fruiting and flowering plants.



Example of a Deep Water Culture System

WHY GROW IN A HYDROPONIC SYSTEM?

- Saves water
- Saves liquid nutrients
- Saves time
- Grows plants bigger and faster

Ask a PNW Staff Member for any Additional help

SHOPPING LIST

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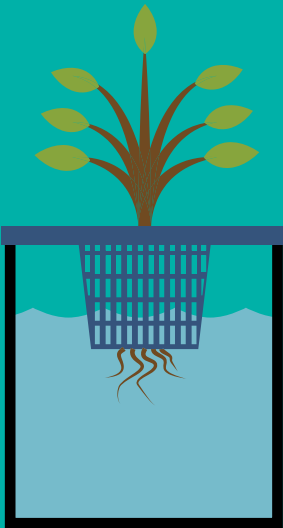
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How To Build Your Own Hydroponic Deep Water Culture System

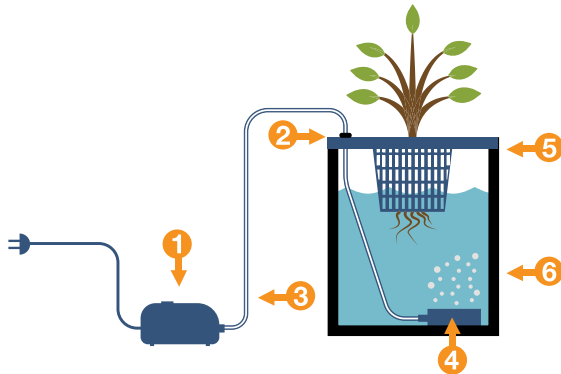


Read this guide for tips on building your own deep-water culture (DWC) system. Follow the advice inside to learn more about the equipment, tools, and techniques needed to build a DWC system. Perhaps the easiest system to install, a simple DWC system requires only a few pieces of equipment and takes only minutes to properly assemble.

Follow the steps below to create your custom Deep Water Culture (DWC) System

Equipment Needed: (Multiply if Necessary)

- 5-gallon bucket
- 6", 8" or 10" net pot lid
- Airpump
- Airstone
- Airline
- 1/4" grommet



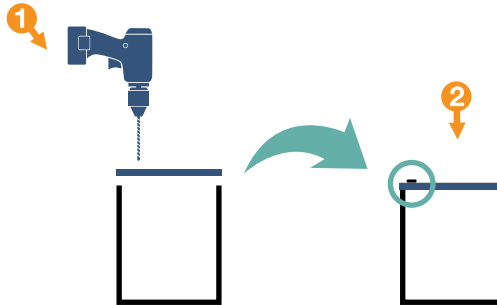
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| 1 AIR PUMP | 4 AIR STONE |
| 2 GROMMET | 5 NET POT LID / NET POT |
| 3 AIR LINE | 6 5 GALLON BUCKET |

Let's Begin the Build

Step #1

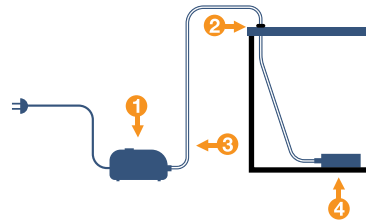
Punch/drill a hole close to the upper lid of your 5-gallon bucket and insert a 1/4" grommet.

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| 1 DRILL HOLE CLOSE TO UPPER LID | 2 INSERT A 1/4" GROMMET |
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Step #2

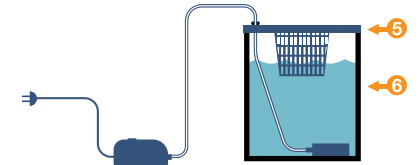
Feed the airline through the grommet and attach the outside end onto your air pump's manifold. Then, attach the airstone to the adjacent end of the line and lay the airstone on the bottom of your bucket.



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| 1 AIR PUMP |
| 2 GROMMET |
| 3 AIR LINE |
| 4 AIR STONE |

Step #3

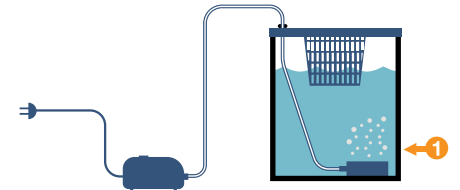
Fill your bucket with water and liquid nutrients. Then, fill your net pot with rinsed hydro stone and place the lid on top of your 5-gallon bucket.



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| 5 NET POT LID / NET POT |
| 6 5 GALLON BUCKET / WATER NUTRIENT |

Step #4

Turn on your air pump. High levels of oxygen are required for success in DWC systems. A heavy supply of oxygen must be pumped into your water source for your system to function properly.



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| 1 OXYGEN |
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