

The Cloud

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The purpose of this project was to create a device that is able to extract and collect water particles from the air and be able to turn it into drinkable water. After creating a device the experiment is to find at what temperature the device captures water the best. The findings: After dozens of failures and trials the Cloud, a device that utilizes humidity and produces condensation, was finalized. The Cloud (scaled 100%) can produce up to 4 gallons of water every hour in the right conditions. Water that was 30-35 degrees works the best in Cloud compared to water that is 25-29 degrees and water 35 degrees plus. The water in the range of 30-39 degrees produced on average 1.5 times more than other temperatures. How the Cloud works? Place the device into a cooler that has a constant humidity of 60%. The device is placed into the cooler with the water in the jar (the water is the changing variable). All trials run for exactly 15 minutes, then after the 15 minutes all water in the water tray is measured in ccs.