ME 412
Heat Transfer Laboratory

Candle Powered Desalinator

Clarifications

Here are some clarifications to the project.

Summary of Constraints
1. Only the energy of the twelve birthday candles can be supplied to your device.
2. For the competition run, the device must start at room temperature.
3. As assembled for the competition, the device must fit within a parallelepiped of dimensions of 12” by 14” by 14”
4. Once the candles are lit for the competition, the device cannot be adjusted.
5. The device must have a removable container that collects the freshwater. At the beginning of the competition this container (empty) will be weighed. At the end of the competition the container will be made. The difference in weight will be the mass of fresh water produced.
6. A maximum of 50 ml of water can be used in the device

Other Clarifications
1. No ice can be used as that would violate both constraints 1 and 2.