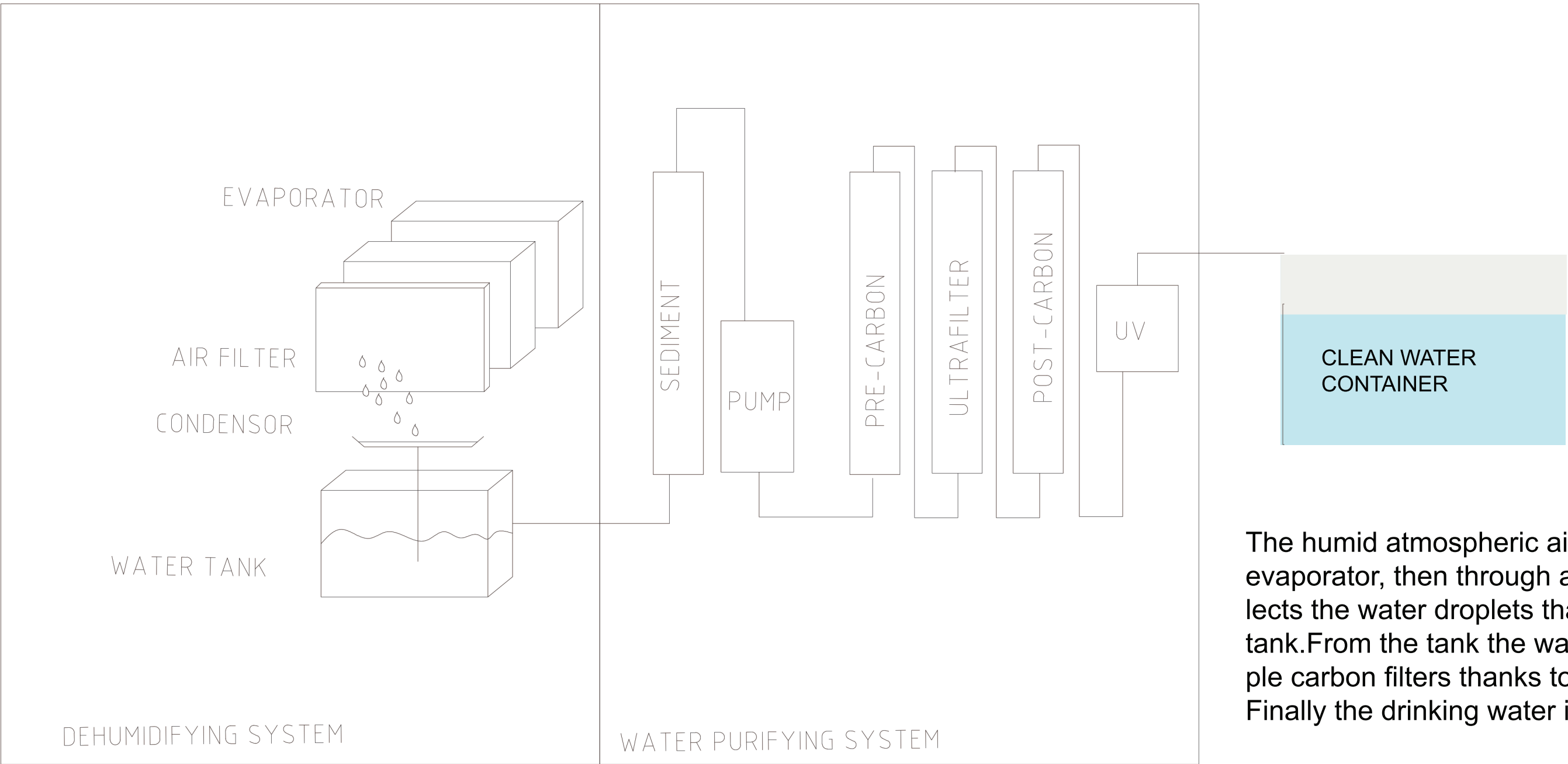
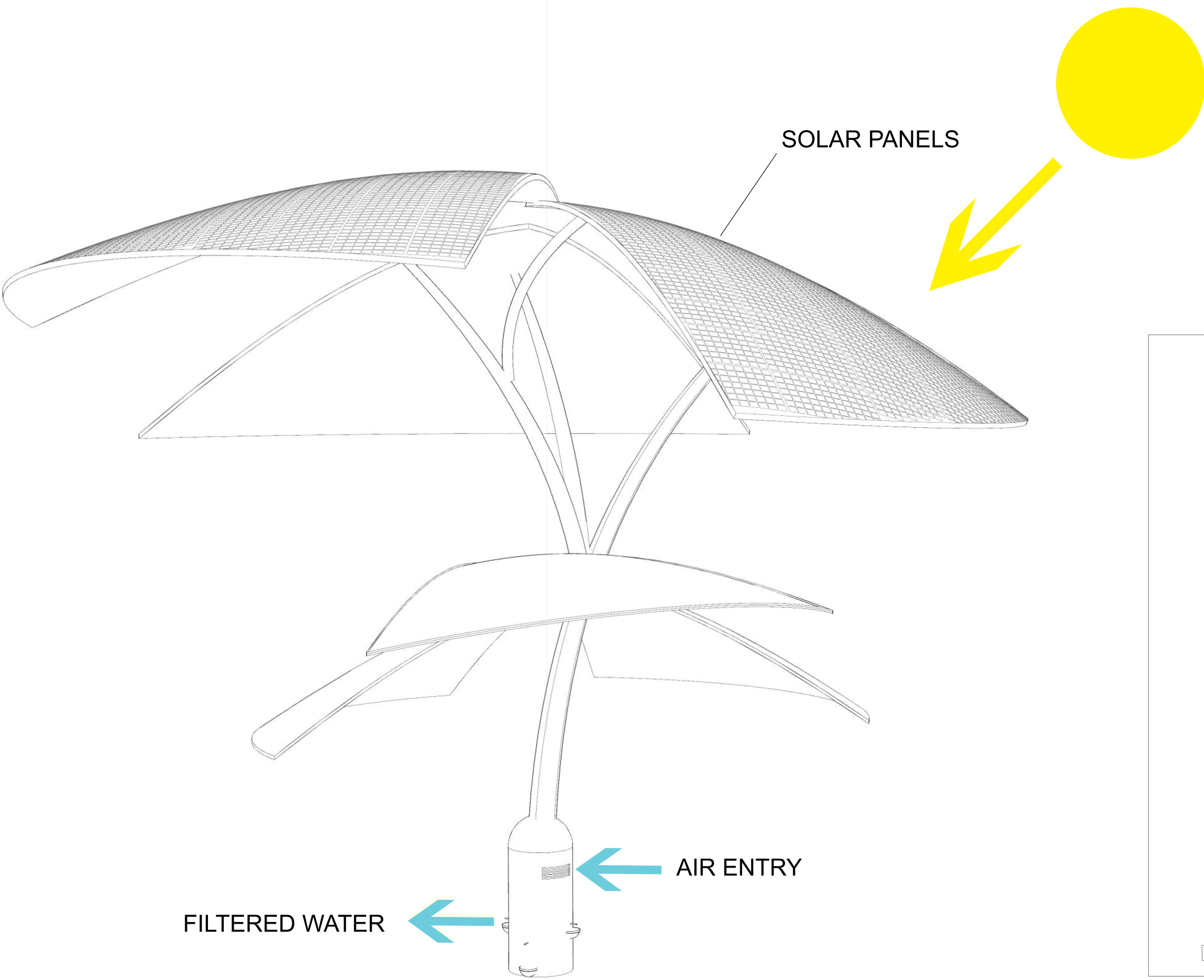
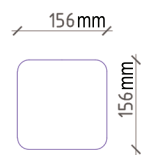


# MASDAR TREES or Rain Forest

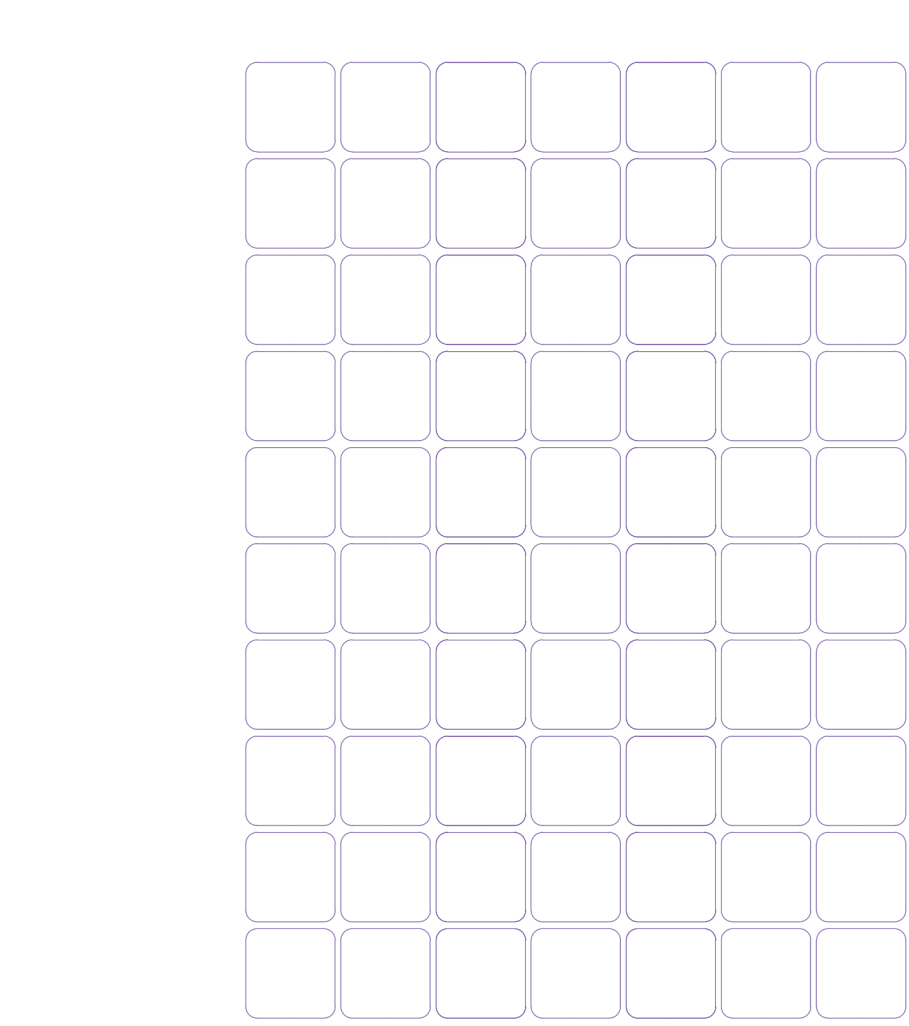


The humid atmospheric air passes first through evaporator, then through air filter. Condensor collects the water droplets that are then stored in a tank. From the tank the water passes through multiple carbon filters thanks to a pump. Finally the drinking water is collected in a container.

## PROTOTYPE

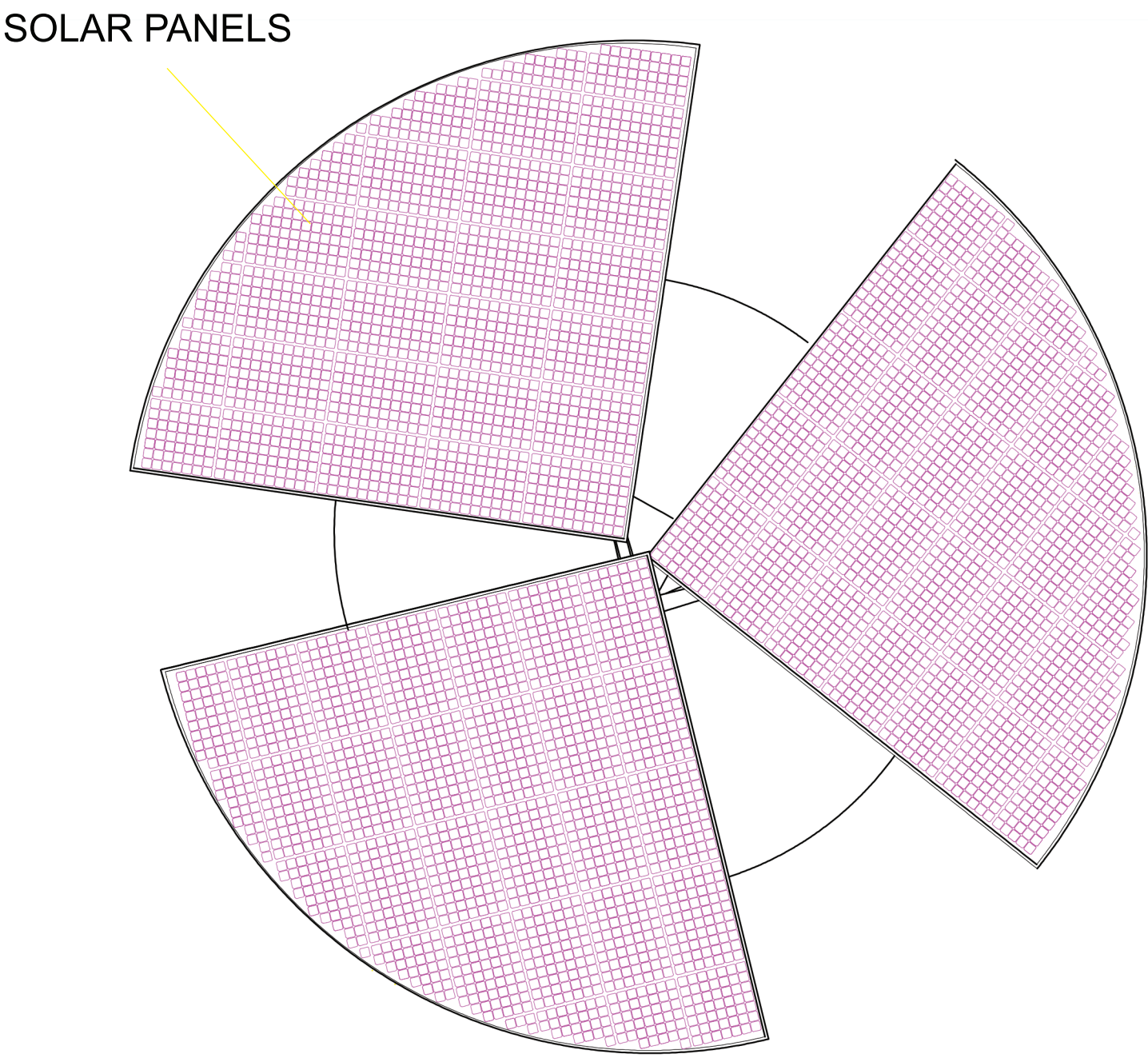


## MECHANISM

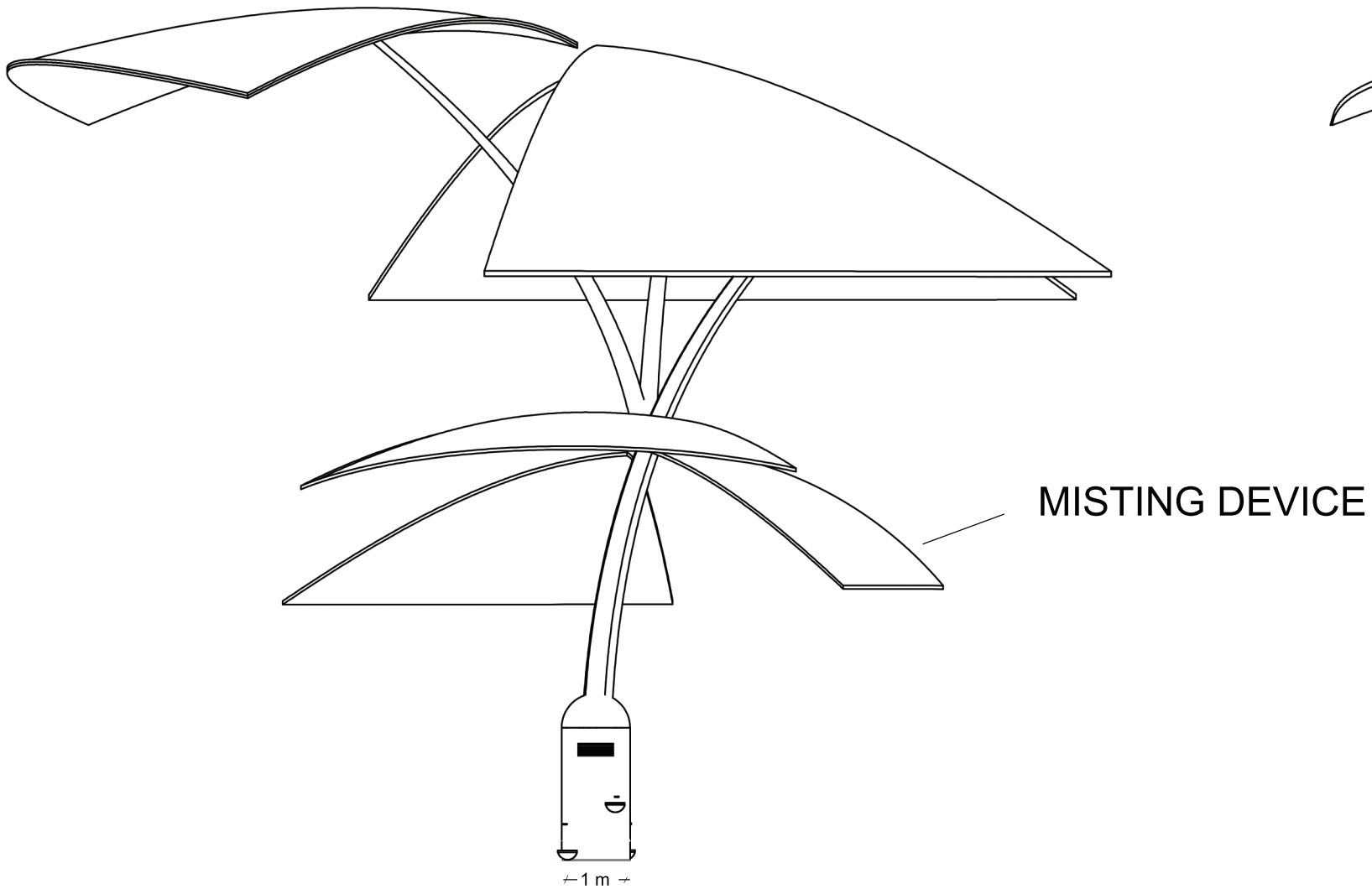


Multi-junction Solar Cells are used as they are much more efficient "more than 40%" compared to regular photovoltaic cells. Thanks to the different semiconductor materials. Each material of p-n junction cell will produce electric current in response to different wave length of light.

## PHOTOVOLTAIC CELLS



## TOP VIEW



## TYPES OF MASDAR TREES

