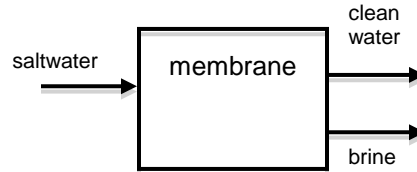


Water Desalination: Design Your Own Desalination Plant

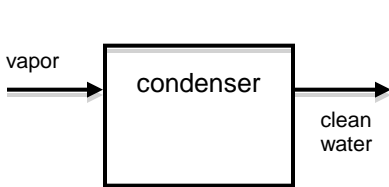
System Components



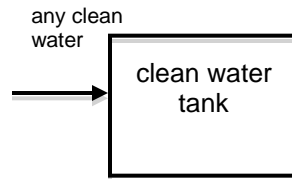
Evaporator: This component takes in saltwater and produces water vapor and brine.



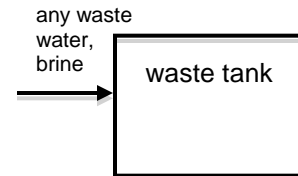
Membrane: This component takes in saltwater and pushes it through a membrane capable of removing salt ions. It produces clean water and brine.



Condenser: This component takes in water vapor and produces water droplets.



Clean Water Tank: This component takes in any clean water produced.



Waste Tank: This component takes in any unused saltwater and brine.

Your Goal

Using the above system components, draw a system diagram for your water desalination plant. You can use the system components as many times as you want, but you must include a clean water tank and a waste tank.