

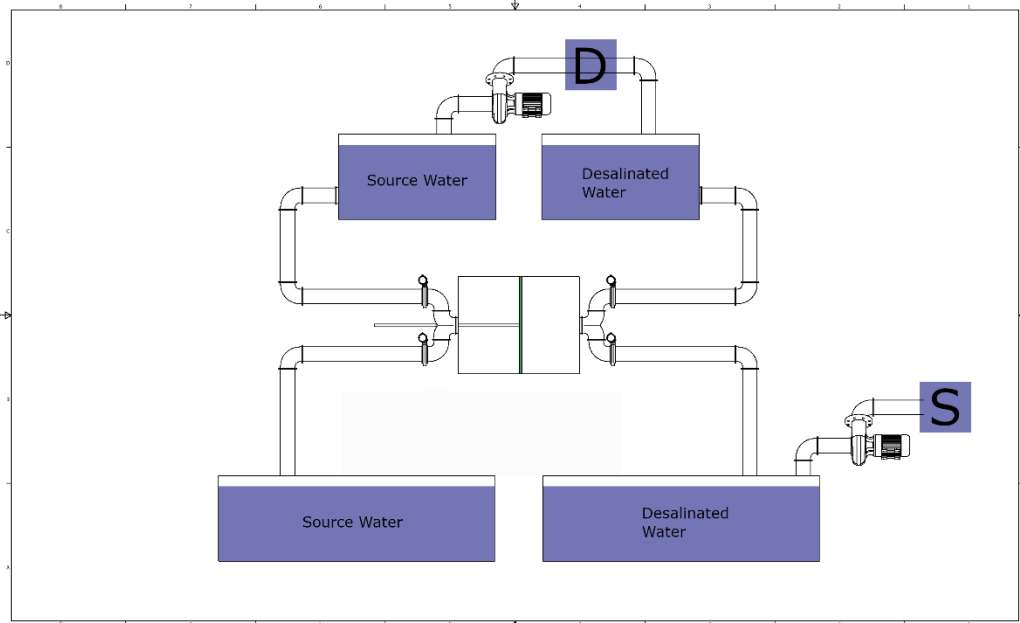
# Zero Gravity Pump

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## Using the Zero Gravity Pump for desalination

The Zero Gravity Pump operates perfectly for desalination.

Desalination in the desert, means transporting water for long distances and heights by using traditional pumps. Using the sun for desalination is still very energy-saving compared to other processes because of its low energy footprint.



## Low energy use

Desalination can either be passive or through a mechanical process (D=desalination). This process depletes the upper source water, and fills the desalinated water tank, this will move the piston to the left.

When the source water is depleted (piston all the way to the left), you can close the upper valves and open the lower valves. If the source water is the sea, this level will not change. By emptying the desalination tank (S=Supply water), sea-water is moved upwards, and the desalinated water is moved downwards.

If we neglect energy used by the pump, we can assume that this process can reach a 96,5% efficiency, since water have a salinity of 3,5%. The remaining 3.5% must be moved with a traditional displacement pump.

Desalination is evaporation. Water that goes up, will come down!