

# DIY Solar Desalination Guide

What is Solar Desalination?

Solar desalination uses the sun's heat to evaporate water, leaving salts and impurities behind.

How to Build a Simple Solar Still:

1. Take a dark-colored container and fill it with saltwater.
2. Place a smaller empty cup or jar inside the container (it should stay dry).
3. Cover the container with clear plastic wrap or glass, sealing the edges.
4. Place a small weight (like a stone) in the center of the cover so it forms a drip point over the jar.
5. Put the setup in direct sunlight.
6. Sunlight heats the water, it evaporates and condenses on the cover.
7. Clean water drips into the jar - ready to drink!

Tips:

- Make sure the cover is tight to avoid vapor loss.
- Use black material under the container to absorb more heat.
- Tilt the setup slightly to encourage flow toward the drip point.

This setup is great for emergencies, small-scale water needs, or teaching water purification!