

# Experimental Study Of An Atmospheric Water Generator With Dc Compressor.

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## Description of the Project:

Water shortage has emerged as one of the ability global problems nowadays. surroundings consist of a vast quantity of water in the shape of vapor, moisture, etc. Within the one's amounts, nearly 30% of water is wasted. This quantity of water may be utilized by enforcing a device like Atmospheric Water Generator. This device can change atmospheric moisture at once into usable or even consuming water. with only (120 Watt) directly from solar power.

### ❖ Aim of design

- 1.Preserving the limited water supply in Iraq (south of Iraq).
- 2.Take advantage of humid weather by generating water.
- 3.The use of this new generation of DC compressors in AWG.
- 4.Flexibility in Power Source.
- 5.Minimize Cost - The design should minimize the cost per unit of water production.



Fig 1: Refrigerated AWG System



