

# **AIR CONDITIONING BY EVAPORATIVE COOLING USING LITHIUM – BROMIDE ABSORPTION UNIT AS A DEHUMIDIFIER +**

**تكييف الهواء عن طريق التبريد التبخيري باستخدام وحدة بروميد الليثيوم الامتصاصية كمجفف للهواء**

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## **Abstract:**

**This work involves a design and study of using lithium bromide solution for dehumidification of moist which is necessary for good evaporative cooling which is popular and have extended use at the southern part of Iraq. At dehumidification unit (drying unit), Lithium Bromide solution atomized from drilled holes as droplets in the air stream to absorb moisture. The weak solution then collected and heated electrically to get strong solution which is pumped by 1.5 Kg/Cm**