

**SIMULATION OF AN ABSORPTION CHILLER DUAL EFFECT OPERATING
WITH THE COUPLE H₂O/LiBr**

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Abstract

We propose in this article an absorption chiller with effect double and two floors, and we evaluate their performance factors. It is an installation using solar energy and operating with environmentally friendly fluids, the lithium bromide and water (H₂O/LiBr). This system uses in addition to solar cell, a photovoltaic's sensor for the pumping. It operates with two condensers, and two boilers (or desorbeurs), following three levels of pressure. The production due to cold refrigerant desorbed by the first boiler is free. The structure of these machines can be "working" heat introduced at the hot spring twice, hence the term double effect.

This article considers the coefficient of performance of these types of machine compared with absorption chillers classics.