



## PERFORMANCE ENHANCEMENT OF A HOUSEHOLD REFRIGERATOR USING SINGLE AND DOUBLE PHASE CHANGE MATERIALS (PCM) ON THE EVAPORATOR: EXPERIMENTAL STUDY

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### Abstract

A refrigerator is the most common and efficient method for preserving food and medicine, although its continuous operation consumes a considerable amount of household energy. Accordingly, optimizing its energy consumption is required. Thus, this study investigated a household refrigerator's overall functionality with phase change materials (PCMs) on the evaporator. The tests involved the application

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