

**Experimental Study The Effect of Addition Glass Wool Insulation Material on
the Performance of Flat Plate Type Solar Collector**
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ABSTRACT

This study aims to determine the effect of adding glass wool on the performance of flat plate solar collectors. Analysis of the data used in this study is to make direct observations and calculate the results of observations using several equations. The results showed that the efficiency obtained was equal to 47,92 % with a value of (Q_{in}) is 832,58 W. The highest temperature of the solar collector can reach is equal to 320,7 K or 47,7 °C and the highest intensity of solar radiation is equal to 1126 W/m².K.

Keywords: *Flat Plate Solar Collector, Glass Wool, Efficiency*