

DESIGN AND TESTING OF A SOLAR AIR COLLECTOR

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ABSTRACT

The flat-plate collectors have an important place among applications of solar energy system. The paper describes the design and testing of a solar air collector in order to develop more efficient and cost effective energy process. In the design of solar collector the energy and exergy analysis were used to establish the appropriate components and the optimum working parameters. Experiments according to the ASHRAE Standard 93- 86 and European Standard EN 12975 2006 on the solar air collector were performed.

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