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1. A

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1. Title , Abstract.

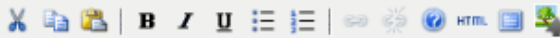
Title and Abstract

Title*

Performance Analysis of Solar Flat Flow Plate Periphery

Abstract*

The solar collectors are one example of tools to harness solar energy. With solar collectors we can utilize solar energy to heat the air. The solar collector is a device capable of absorbing and transferring heat from solar energy to the working fluid. In this study flat plate solar collector added hollow plate with varying hole diameter. Length of plate $L_p = 1200$ mm and collector width $W_p = 500$ mm. Diameter of the perforated plate from large diameter to small diameter ie 90 mm, 70 mm, 50 mm, 30 mm, and 10 mm. Diameter of the perforated plate from small diameter to large diameter ie 10 mm, 30 mm, 50 mm, 70 mm, and 90 mm. The distance between the 200 mm perforated plate. From the results of tests that have been implemented it can be concluded that flat solar collector with variations in diameter of holes from large to small diameter produces better performance compared with flat plate solar collector with variations in diameters from small to large. The performance of collector with hollow fins from large to small diameter is the output temperature of 321 K, the useful energy of 128.6 W and the efficiency of 17.75% which is higher than the collector performance with hollow fins from small to large diameter ie the output temperature is 319 K, its useful



2. A

Indexing

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Academic discipline and sub-disciplines

engineering

Keywords

Flat plate solar collector; Thermal performanc

Type, method or approach

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