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Experimental Analysis of Single Basin Solar Still with Internal Reflector and Sensible Heat Storage Medium

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Abstract : Pure drinking water is essential for the survival of human race. To overcome this shortage of pure drinking water, distillation method is used all over the world. During recent times, solar energy is used for this process. Solar stills are used for the purpose of conversion of saline to drinking water. But the efficiency level is very low. To increase the efficiency of solar stills, many types of modifications are made. In this experiment, conventional solar stills are modified by using multiple fins, spreading coal at the bottom of the still and radiation is increased by fitting a reflecting mirror at the bottom of the still, at Tamilnadu, India. Finally, experimental value was compared with theoretical value. **Keywords:** Solar still, Coal, Multiple Fins, Reflecting mirror.

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