

Department : **Mechanical**

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Guided By

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Project Title

SOLAR WATER DISTILLATION SYSTEM

Abstract:

To solve the serious shortage of safe drinking-water, solar distillation system (still) is one of the most effective tools for water supply especially in developing countries. Our group has consistently developed solar distillation systems since 2012. By adopting decompressed boiling, heat loss is reduced and it can be applied to multi-effect still because of small temperature-difference between evaporating and condensing. Problems to be solved are that distillation vessels are expensive because they have to be strong enough for negative pressure; existing heat exchangers are also expensive; and mist contamination into distilled water due to the bumping boiling. We have developed various-scaled solar stills using decompressed boiling and studied to experimentally solve above problems. This paper introduces stills developed by us and a design of new still being recently considered.

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