



Developments and modifications in passive solar still: a review

Hitesh Panchal^{a,*}, Kishor Sadashivuni^b, Ravishankar Sathyamurthy^c, Dinesh Mevada^d

^aMechanical Engineering Department, Government Engineering College Patan, Gujarat, India, email: Engineerhitesh2000@gmail.com

^bCenter for Advanced materials, Qatar University, P.O. Box 2713, Doha Qatar, email: Kishorkumars@qu.edu.qa

^cDepartment of Automobile Engineering, Hindustan Institute of Technology and Science, Chennai, India, email: raviannauniv23@gmail.com

^dGujarat Technological University, Ahmedabad, India, email: write24dinesh@gmail.com

Received 17 March 2018; Accepted 23 November 2018

ABSTRACT

Due to the increment in pollution as well as global warming, the scarcity of potable water is increasing day by day. There are several ways to obtain pure water, but solar desalination with use of solar still is the cheapest way. The purified water production from passive solar remains lower; hence the research requires to increase it. Researchers tried different ways to enhance the pure water production from the passive solar still. Present work shows the numerous developments and modifications done in passive solar still to increase distillate output. From the review paper, it has been found that passive solar still is an essential device and it has many scopes of research work to increase distillate output.

Keywords: Potable water; Distillate output; Passive solar still

* Corresponding author.