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Performance of Solar Water Heating System on Different Tube Arrangements – Review

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Abstract:Solar energy is easily available in nature, pollute less, priceless and therefore it is accepted as one of the most capableunconventional energy sources. The effective use of solar energy is held up by the intermittent nature of its availability, limiting its use and success in domestic and industrial applications especially in water heating. Heating water for domestic purpose is a simple and operative way of utilizing solar energy. The initial cost of solar water heating system is high. But we get natural green energy cost. This paper discusses to improving the performance of a solar water heating system by varying the tube arrangement. The efficiency of water heating system mainly depends on the arrangement of riser tubes and the number of riser tubes. The literature is reviewed to understand the thermal efficiency of the system with the different tube arrangement of the solar thermal system.

Keywords : Solar Energy, Solar water heating, Tube arrangement, Thermal Efficiency.

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