## Modeling of temperature for Simple Solar Distiller Hybrid with Heat Pump (SSDHP)

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Inding solutions for the puri cation of sea water today admits a major necessity in all countries, especially the third world. e considerable increase in the population growth of all types of industry is thought to nd high quality technology to produce drinking water. Two models can be used in this work: Simple solar still (SSD) and simple solar still coupled with hear pump. In this research, the productivity of water by SSD and SSDHP was determined by the orientation, the use of heat pump the simple or double glass cover. e productivity can exceed 1.2 L/m²h for the SSDHP and 0.5 L/m²h for SSD model. e result of the global e ciency is determined which is 30% and 50% respectively for SSD and SSDHP. e internal e ciency attained is 35% for SSD and 60% for SSDHP. Convective heat coe cient can be determined, which is attained at 2.5 W/m²°C and 0.5 W/m²°C respectively for SSDHP and SSD models.

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