The ''Zeosol'' demo plant is a system for solar cooling and heating production which consists of a 12.5 kW adsorption chiller and a 30.0 kW backup compression chiller for cooling/heating production, installed at the Laboratory of Steam Boilers and Thermal Plants of the National Technical University of Athens. The heating supply of the system is realized by a 38 m² vacuum tube collectors' field with a buffer tank of 1 m³ capacity. The measuring procedure was conducted between July 2019 and February 2020.

ZE SOL

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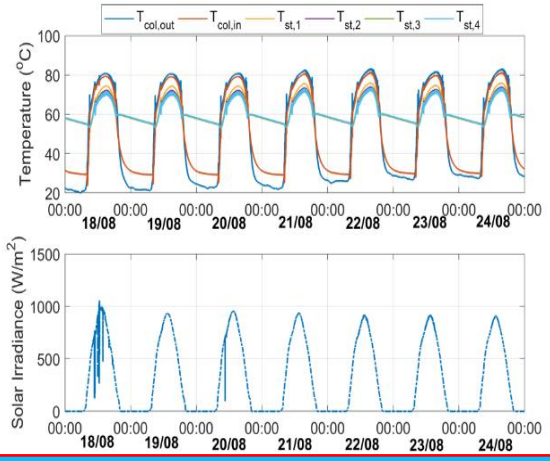
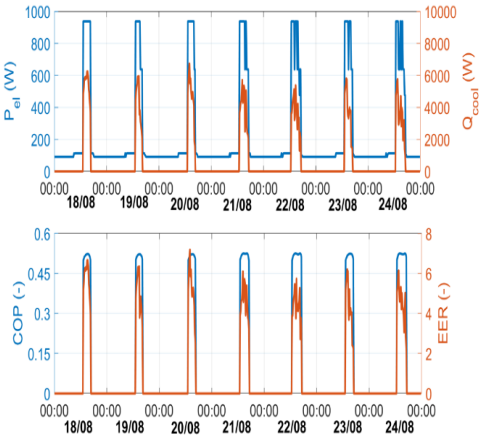


Hereby are presented the experimental results for a typical week of August in adsorption only mode. During that period, the adsorption chiller achieved a nominal COP of 0.54 and a maximum EER of 7.5 a driving temperature of 79 ºC.



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