

## ***Interactive comment on “Optimization analysis of active solar still using design of experiment method” by Mohammad Omar Abu Abbas et al.***

**Anonymous Referee #2**

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I believe that the present paper contains interesting results. Therefore, I think the manuscript could be accepted for publication after the following major issues are addressed. The whole manuscript revised once again - it has many grammatical, stylistic and typographical mistakes. English should be checked by native speaker. Concrete comments are shown as follows. Abstract Abstracts of the paper lacks important information. Abstract provides detailed explanation of the methods weather results and conclusions of an abstract are lacking.

Introduction 1) English should be checked by the native speaker 2) Solar still should be introduce in the second paragraph of the introduction. 3) References to solar still performance should be added. What is the performance of the solar still and why should be improved? 4) What happens with the solar still if you increase condenser cover

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## Interactive comment

temperature and increase saline water temperature? 5) Line 90-91 - "Enhancing the productivity of solar still has received significant attention from many researchers." – What researchers? References should be added 6) Same for line 92-95 7) Line 105 typo "Manokar et al (2020). Analyzed...." 8) Line 155-157 - "It should be remarked that all of the researches have studied the influence of utilizing one parameter at a time while keeping the other parameters fixed will not occur to understand the interaction." This sentence is really not understandable. What is will not occur to understand the interaction? 9) Line 158 "we collected all the parameters that could affect the active solar still" – My suggestion is to name all main parameters that you took into consideration. If not in introduction then certainly in 2.3 Design of Experimental 10) Line 320-322 – "The results found that the most important factors that enhance mass output are amount of external power, water depth, and basin area respectively." It would be good to support that information with findings from the literature and explanation why is that so.

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