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Judul Artikel

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Peringkat

: Improving the Performance of a Forced-flow Desalination Unit using a Vortex Generator

: Dan Mugisidi, Oktarina Heriyani.

Status Penulis : Koresponden

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CFD Letters





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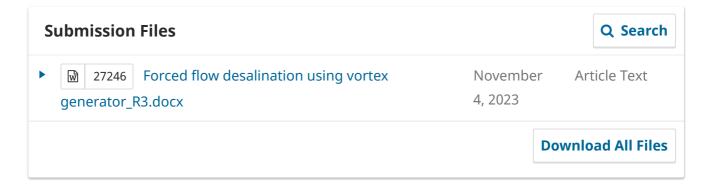


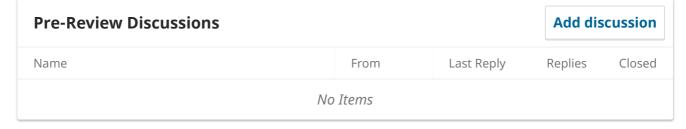
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method and main finding.

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- 7. Please refer to the CFD Letters Template about how to **present** equations, figures and tables in a manuscript. Besides that, please check on how to mention to those equations (Eq. (X)), figure (Figure X) and table (Table X) in a body paragraph.
- 8. PLEASE CHECK THE CITATION NUMBER. All citation numbers must be in ascending order without skipped numbers, for the first time cited. PLEASE REARRANGE ALL THE CITATIONS.
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Paper Ref.: 27452	

Paper Title: Improving the performance of a forced-flow desalination unit using a vortex generator.

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No	Editorial Comments	Respond
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3	In the abstract section, it should have a short introduction of the	
	background study, problem statement, objective of the paper, briefing	V
	about the used method and main finding.	

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	have the gap and significant of study before write the objective of the	V
	study.	
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	sentence of abbreviations for the first time used.	V
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	figures and tables in a manuscript. Besides that, please check on how to	V
	mention to those equations (Eq. (X)), figure (Figure X) and table (Table X) in	V
	a body paragraph.	
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	FIGURES. THE LOW-RESOLUTION FIGURES ARE UNACCEPTABLE FOR	
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	statement. For example, " are taken from [17, 21-23]", should be	V
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No.	Reviewer 1	Respond
1		The article has been revised and
	English needs improvement throughout the text	proofread on Scribendi
		(https://www.scribendi.com/)
2	In the Abstract, try to use percentages for a better	Percentages have been used to
	illustration of the obtained results	illustrate research results in the
	illustration of the obtained results	abstract
3	Kindly use "The rate of distillation" instead of "The	Thank you for the advice. The
	rate of evaporation"; use "condensing it [11]" instead	sentences in the introduction have
	of "recondensing it [11]"; use "stills with reflectors"	been corrected accordingly
	instead of "stills with added reflectors"; the same	
	observation for concentrators, condensers, and	
	absorbers.; use "few solar stills have used a vortex	
	generator" instead of "no solar still has used a vortex	
	generator".	

	Coloradilla constant advanta advanta del	The state of the s
4	Solar still operates under natural convection, and	Thank you for the advice. Suggested
	there is no need for vortex generators. Concerning the	references have been studied and
	convection air generation inside stills, there are some	used to enrich the discussion in the
	works using air motion like that given in:	article. Additions were made to the
	https://doi.org/10.1016/0196-8904(91)90144-8 and	introduction and discussion sections
	https://doi.org/10.1016/0196-8904(93)90009-Y	
5	This declaration must be verified "A solar still can	This statement has been removed
	produce up to 200 m3".	from the article
6	When using a light source, the heating process is by a	Thank you for the advice.
	When using a light source, the heating process is by a	Improvements have been made to the
	constant (imposed) heat flux (not by constant	experimental setup according to the
	temperature).	research conditions
7		Because the air coming from the
	Why air-flow is not recirculated for the recovering	environment is more humid than that
	energy and moisture, leaving the condenser (reducing	coming out of the condenser, so if you
	heat/mass losses)?	use air from the environment we will
	-	get higher condensate.
8	Viehelin Fie 7 months somethed and Fie 2 months	Y-label in Fig 8 already corrected.
	Y-label in Fig. 7 must be corrected, and Fig. 2 must be	Figure 2 already highlight in
	highlighted.	experimental setup.
9	Book and the control of the control	Base on experimental data, Reynolt
	Based on the experimental data, compare the heat	number, evaporation coefficient and
	transfer coefficients (by evaporation, convective, and	convective coefficient calculared and
	radiation) with and without vortex generation.	compared in Table 2.
10	Limitations associated with the work done and future	Future research will use heat from
	works may be stated at the end of the conclusion	solar already added in conclusion
	section.	,
		I

No	Reviewer 2	Respond
1	The 3 page of the manuscript describes the basics of the experimental system, but it does not give the working conditions of the experimental tests, the solar energy input and the environment, please add this part.	This research was conducted indoors. The heat source uses several spotlight units and already stated in experimental setup section.
2	The description of CFD modelling on page 4 is not detailed enough.	CFD modelling description already added to complete existing information
3	The authors need to add the mathematical model of the CFD simulation and list the UDF used, if it exists.	Mathematical model of CFD simulation already added in fourth pages
4	The grid independence analyses in Table 1 only list comparisons of water levels, which is clearly insufficient. The most important parameters for desalination are temperature and evaporation rate, which should also be compared to ensure that the grid is sufficiently accurate	Thank you for the advice. Grid independence is reset using temperature as a parameter

5	Two Table 1 have appeared on page 5, please correct them	Table 1 on page 5 already corrected
6	Comparative analyses of experiments and simulations need to be added to the paper in order to enhance persuasiveness	The explanation in the results section has been corrected
7	The temperature bar in Figure 5b actually reaches a maximum temperature of 246.75°C, which is clearly incorrect. Please check if this is because the CFD simulation results have not converged?	Thank you for your advice, I miss this part. I missed this part. Previously the scale of both images had not been set. Currently the scale of the two images is equalized using the smallest scale to make it easier to compare them
8	For desalination systems, GOR is an important indicator for evaluating the system's excellent energy efficiency, so please add a discussion of solar still's GOR situation.	Performance of the system also can be expressed with efficiency as well as GOR. I put both expression in result discussion.
9	The performance of only two test units is compared in Table 3, and the authors need to add comparisons with the various types of new desalination systems available	Table 3 already added for comparison with other researcher

Notifications

[CFD Lett.] Editor Decision

2024-01-22 06:26 AM

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