

Review of: "Numerical Study of Thermal Performance on Fin and Tube Heat Exchanger with Flat Rectangular and Sinusoidal Winglet Vortex Generators"

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Potential competing interests: No potential competing interests to declare.

- On page 3, second paragraph, last statement, it is unclear whether a rectangular winglet without a hole or with a hole has high fouling resistance. Please revise the statement.
- Figure 4 needs to be plotted on the same color scale for precise comparison.
- Figure 4 shall be presented after the first paragraph of section 3.1.
- Are the pressures plotted on Figure 5 gauge pressure or absolute pressure? Why is the pressure in negative values?
- Figure 5 needs to be plotted on the same color scale for precise comparison.
- Figure 5 shall be presented after the discussion paragraph of section 3.2.
- Figure 6 shall be presented after the discussion paragraph of section 3.3.
- The pressure loss in the flow with a sinusoidal winglet is greater compared to that with a rectangular winglet, but the comparison of friction factors is vice versa; it is required to discuss and elaborate further on these findings, especially how the friction factor is determined and analyzed.
- On page 11, line 4, it is unclear what observation is noted from Figure 7. Please elaborate on the statement further as well as correcting the typo.

This paper presents the outcome of a numerical study of thermal performance on a fin and tube heat exchanger, but there is no validation of the numerical results. Results validation is mandatory for a numerical study on fluid dynamics.