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

Subhas Chandra Rana[1]

1 National Institute of Technology, Durgapur

Potential competing interests: No potential competing interests to declare.

In Abstract: spelling mistake: ‘Thermos’ to be changed to ‘Thermo’.

In Model Description, give the dimensions of the fin and tube, dimensions of the computational domain. Please attach the grid view of the full domain and an enlarged view near the fin and vortex generators.

Dimensions of the rectangular and sinusoidal vortex generators are required. For the sinusoidal vortex generator, what is the pitch, and how many cycles have been taken?

Show the angle of attack in a schematic diagram for both the vortex generators.

Rectify the governing equations in terms of the typesetting as well as in terms of accuracy (The momentum equation is wrong).

For the turbulence viscous model K-ϵ (RNG model), write down the K & epsilon equations, and the Boussinesq hypothesis required for assessing Reynolds stress (*ui*. *uj*).

Show the basis of calculation of Re. Also, show that Re = 300 and above is turbulent flow; otherwise, you cannot use that turbulent model.

What is the definition of Nu you used? Write down its expression and how you calculate h in Nu=h.l/k.

All other things are alright. And after these corrections, the paper can be accepted.