

Review of: "Cooling Beer With a Wet Paper Towel"

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Potential competing interests: No potential competing interests to declare.

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Title: Cooling Beer With a Wet Paper Towel

The manuscript presents a study of paper towel influence on beer cooling in 3 conditions. Soaked paper towel helped speeding up the cooling rate when advection was low and did not affect the cooling rate at high advection. Numerical simulation was performed and it showed fair agreement with experimental data when convection at boundary was taken into account. I find this manuscript, though a basic study, is interesting as it answers some questions arising in daily life though I am not a drinker. It can be applied to other beverages beside beer. It can be accepted for publications after the following minor points are addressed.

- 1. Details of the freezer should be provided.
- 2. Why the initial temperature differences were large for cases a) and c) in Fig. 1? In Fig. 1 b), no wrapped bottles were placed in the bin and d) no bare bottles were presented. Moreover, Fig. 1 d) shows the bottles in the bin rather than next to the bin. Figures representing actual experiment for each case should be provided for clarity.
- 3. How many thermocouples were used in radial cooling experiment? Diagram showing locations of the probes should be given.
 - 4. In Fig. 2, I suggest using actual data from measurement rather than the interpolated data.
- 5. Numerical results in Fig. 4 do not actually agree well with experimental data for high advection. You may just mention they have the same trend.

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