Review of: "Refrigerant Selection in Air Conditioning Systems Considering Thermodynamic, Environmental, and Economic Performance Using the BHARAT-II Multi-Attribute Decision-Making Method"

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Potential competing interests: No potential competing interests to declare.

I would like to thank the authors for this nice work; the article is well written and well explained. In this work, a multi-attribute decision-making method named as “best holistic adaptable ranking of attribute technique” to choose the best refrigerant for an AC system for two cases is applied. The first case, for a residential split unit AC system, out of 15 refrigerants and considering 12 selection attributes, the second case for an automobile AC system, considering 14 refrigerants and 13 selection attributes.

Comments:

On page 4, the first row under the matrix M1 (r_{vv}) should be (r_{yy})

On page 4, the second row under the matrix M1 (i.e., $rvx = 1/rxy$, $rzy = 1/ryz$, and $rzx = 1/ rxz$) It is ryx, not rvx.

On page 8, the second row, it should be ODP, not OWP.

On page 11, second paragraph, row number 3, it is GWP, not GDP.

On page 12, second row from the bottom, it is ODP, not ODF.

On page 16, row number 4 from the bottom, it is GWP, not GDP.

Regarding the first case study, if the cost is added as another attribute, what will be the result of selection?