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Title: Reply and closure to comments on “Temperature–heat diagram analysis method for heat recovery physical adsorption refrigeration cycle – Taking multi-stage cycle as an example” by M.M. Awad

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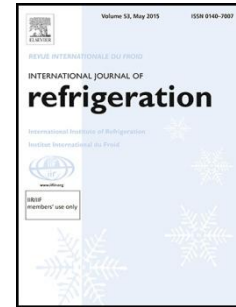
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Reply and closure to comments on “Temperature–heat diagram analysis method for heat recovery physical adsorption refrigeration cycle – Taking multi-stage cycle as an example” by M.M. Awad

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Highlights

- Dr. Awad did not comment on any technical content of the commented article.
- The proposed T – Q diagram methodology lies on a solid theoretical basis.
- All evidence Dr. Awad used has corresponding published counterarguments.
- Many articles utilizing entransy have been published after peer-review process.
- Dr. Awad used duplicate text in his anti-entransy papers in different journals.

ABSTRACT

The purpose of this letter is to reply to and closure the comment paper by M.M. Awad on the present authors' article that proposed the temperature–heat (T – Q) diagram methodology for adsorption refrigeration cycle. Dr. Awad did not comment on any technical content of the commented article. The comments mainly enumerated opposing views on entransy. In this letter, the present authors reiterated the theoretical basis of T – Q diagram, and gave rebuttals to Dr. Awad's comments.

Keywords: Adsorption refrigeration; Multi-stage cycle; Heat recovery; T – Q diagram; Entransy dissipation.

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