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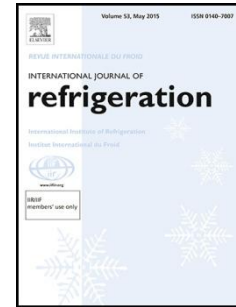
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# Performance evaluation of air source heat pump under unnecessary defrosting phenomena for nine typical cities in China

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## Highlights

- The characteristics of ASHP under unnecessary defrosting phenomena were studied.
- Energy loss for two kinds of unnecessary defrosting phenomena was quantified.
- A method was proposed to predict times of unnecessary defrosting operations.
- Performance loss of unnecessary defrosting was evaluated for typical cities in China.
- It indicates unnecessary defrosting processes should not be ignored.

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