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An experimental study on frosting and defrosting performances of a novel air source heat pump unit with a radiant-convective heating terminal

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Highlights

1. A novel ASHP system with a radiant-convective heating terminal was presented.
2. The frosting and defrosting performances of the novel system were investigated.
3. The average system COP was 2.78 during a 66-min frosting period.
4. The defrosting period was 105 s and defrosting efficiency 43.8%.

Abstract

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