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Energy impacts of defrosting in household refrigerators: lessons from field and laboratory measurements

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Highlights

- Household refrigerator defrost events are examined to characterise defrost energy.
- Field data covers a wide range of different climatic regions in Australia.
- Measured defrost energy is 0.2-0.5 Wh d⁻¹ L⁻¹ for 195 refrigerators in homes.
- Average defrost intervals range between 13-37 h for 55,000 defrost events.
- A defrost energy model based on room temperature and user component is proposed.

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