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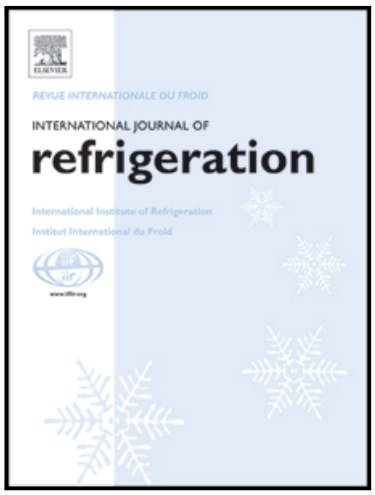


# A simple optimization approach for the insulation thickness distribution in household refrigerators

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PII: S0140-7007(18)30220-2
DOI: 10.1016/j.ijrefrig.2018.06.014
Reference: JIJR 4023

To appear in: *International Journal of Refrigeration*

Received date: 14 February 2018
Revised date: 22 June 2018
Accepted date: 24 June 2018

Please cite this article as: F.X. Trias, C. Oliet, J. Rigola, C.D. Pérez-Segarra, A simple optimization approach for the insulation thickness distribution in household refrigerators, *International Journal of Refrigeration* (2018), doi: 10.1016/j.ijrefrig.2018.06.014

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**Highlights**

- New analytical method to find the optimal insulation thickness in refrigerators.
- The method is suitable for both single and dual compartment configurations.
- The method can provide the optimal configuration for a given energy efficiency index.
- Vacuum insulation panels can be easily included in the optimization strategy.
- Method extended considering the ventilation channel clearance behind the unit.

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