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A Study on the Effectiveness of Applying Vacuum Insulation Panels in Domestic Refrigerators

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HIGHLIGHTS

- Experiments were carried out with 16 prototypes of the same refrigerator model
- The gathered data were correlated statistically
- A coverage area of 56% dropped the energy consumption by 21%
- The effect of the VIPs panels is higher when installed in the fresh-food compartment
- The VIP aging can not be directly inferred from thermal conductivity measurements

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