## **Accepted Manuscript**

Experimental evaluation of the performance of a thermodynamic vent system for a vapor-liquid storage tank with R141b as the testing fluid

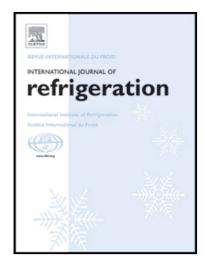
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#### ACCEPTED MANUSCRIPT

### Highlights

- The TVS method was proved to have a significant advantage against direct venting in reducing mass loss.
- The rate of pressure rise of the ullage decreases with the increase of the filling rate in the self-pressurization stage.
- Control strategies have significant influences on the operation performance of the storage tank



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