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Research on the refrigerant column height in the downcomer of a two-phase loop thermosyphon

Hanwen Cao, Tao Ding, Zhiguang He, Zhen Li

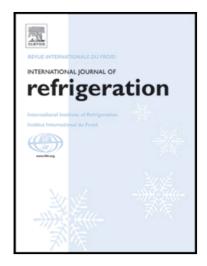
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#### ACCEPTED MANUSCRIPT

### Highlights

- The role of the refrigerant column in domwcomer of TPLT system is studied.
- The influencing factors on refrigerant column height are investigated.
- •The performance of TPLT will decline when refrigerant column exceeds condenser.
  - •The column height should be considered when designing a TPLT system.

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