

## Accepted Manuscript

Influence of the contact angle on the wettability of horizontal-tube falling films in the droplet and jet flow modes

Peru Fernandez de Arroiabe, Asier Martinez-Urrutia, Xabier Peña, Manex Martinez-Agirre, M. Mounir Bou-Ali

PII: S0140-7007(18)30109-9  
DOI: [10.1016/j.ijrefrig.2018.04.003](https://doi.org/10.1016/j.ijrefrig.2018.04.003)  
Reference: JIJR 3943



To appear in: *International Journal of Refrigeration*

Received date: 30 October 2017  
Revised date: 6 March 2018  
Accepted date: 1 April 2018

Please cite this article as: Peru Fernandez de Arroiabe, Asier Martinez-Urrutia, Xabier Peña, Manex Martinez-Agirre, M. Mounir Bou-Ali, Influence of the contact angle on the wettability of horizontal-tube falling films in the droplet and jet flow modes, *International Journal of Refrigeration* (2018), doi: [10.1016/j.ijrefrig.2018.04.003](https://doi.org/10.1016/j.ijrefrig.2018.04.003)

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**Highlights**

- The influence of contact angle on absorbers is numerically analysed.
- 3D models are needed to analyse the wetted area in cases of incomplete wetting.
- Flow hydrodynamics, flow mode and wetted area may change with contact angle.
- The contact angle should be considered in LiBr-H<sub>2</sub>O absorbers analysis and design.

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