

Accepted Manuscript

Experimental Study of Direct Contact Condensation of Steam Jet in Water Flow in a Vertical Pipe with Square Cross Section

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PII: S0301-9322(17)30082-4
DOI: [10.1016/j.ijmultiphaseflow.2018.03.009](https://doi.org/10.1016/j.ijmultiphaseflow.2018.03.009)
Reference: IJMF 2764



To appear in: *International Journal of Multiphase Flow*

Received date: 7 February 2017
Revised date: 14 February 2018
Accepted date: 7 March 2018

Please cite this article as: Saman Zare , Mohammad Hossein Jamalkhoo , Mohammad Passandideh-Fard , Experimental Study of Direct Contact Condensation of Steam Jet in Water Flow in a Vertical Pipe with Square Cross Section, *International Journal of Multiphase Flow* (2018), doi: [10.1016/j.ijmultiphaseflow.2018.03.009](https://doi.org/10.1016/j.ijmultiphaseflow.2018.03.009)

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Highlights

- An experimental investigation of DCC of steam jet in water flow was performed.
- Three main steam plume regimes (chugging, stable, and oscillatory) was identified.
- A three-dimensional regime map was introduced based on experimental data.
- Steam mass flux was found to be the most effective parameter on this phenomenon.
- Empirical correlations for the stable regime of the steam plume were suggested.

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