Accepted Manuscript

A new phenomenological model to predict drop size distribution in Large-Eddy Simulations of airblast atomizers

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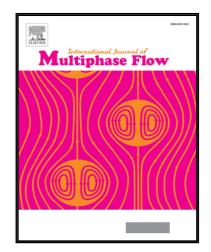
PII: \$0301-9322(15)00256-6

DOI: 10.1016/j.ijmultiphaseflow.2015.10.014

Reference: IJMF 2308

To appear in: International Journal of Multiphase Flow

Received date: 8 August 2015 Revised date: 7 October 2015 Accepted date: 21 October 2015



Please cite this article as: G. Chaussonnet, O. Vermorel, E. Riber, B. Cuenot, A new phenomenological model to predict drop size distribution in Large-Eddy Simulations of airblast atomizers, *International Journal of Multiphase Flow* (2015), doi: 10.1016/j.ijmultiphaseflow.2015.10.014

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Highlights

- A model to explain the onset of liquid instability in airblast atomizers is proposed
- The model shows a good agreement with experiment in terms of diameter and time scale
- The model is embedded in a LES code with a local formulation of flow parameters
- The results of the simulation shows good agreement with the experiment



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