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

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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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