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Bruno Pizziol, Mário Costa, Miguel Oliveira Panão, André Silva

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Multiple Impinging Jet Air-Assisted Atomization

Bruno Pizziol^a, Mário Costa^{a,*}, mcosta@tecnico.ulisboa.pt, Miguel Oliveira Panão^b, André Silva^c

^aIDMEC-LAETA, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal

^bADAI-LAETA, Universidade de Coimbra, Coimbra, Portugal

^cAreoG-LAETA, Universidade da Beira Interior, Covilhã, Portugal

*Corresponding author.

Highlights

- New injector design based on sprays produced from simultaneous impact of multiple jets
- Results evidence the ability to control the average droplet size through the air mass flow rate
- A transition occurs between hydrodynamic and aerodynamic atomization breakup mechanisms as the air mass flow rate increases
- Aerodynamic shear breakup deteriorates the atomization performance

Abstract

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