

# THE MIXING EFFICIENCY OF LIQUID DROPLET FUEL AND AIR FLOW IN THE FRONTAL SWIRL DEVICES

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This work devoted to investigation of frontal swirl device for low-emission combustion chamber. It deals with the mixing processes of liquid droplet fuel and air flows. The numerical model includes the Reynolds equations and Lagrangian individual droplet equations. Fuel distribution calculations for any constructions of swirler were made. The results show the agreement coincident of experimental and calculation results.

*Fuel, droplet, frontal device*

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