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EXPERIMENTAL INVESTIGATION OF THREE-DIMENSIONAL
TURBULENT JETS ISSUING FROM A NOZZLE WITH A
RECTANGULAR OUTPUT SECTION

Summary

Detailed experimental data on alteration of dynamic characteristics of average flow characteristics depending on λ ($\lambda=a/b$, a , b , – the length (m), width (m)) with the aim of generalization of the results in the extended area of λ value alteration. Replaceable nozzles are applied to form three dimensional streams. The nozzles with the extension $\lambda=1$; 2.66; 5.07; 7.61; 11; 16; 25.25 and a round nozzle have been applied in the experiments. The main changes have been arranged in the case of flowing velocity at the nozzle exit U_0 equal to 20 m/s and 40 m/s that is equivalent to the Reynolds figures 3.2×10^4 and 6.5×10^4 calculated on effective diameter.