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EXPERIMENTAL INVESTIGATIONS OF SUCTION VELOCITY IN V-FINS UNDER NATURAL CONVECTION HEAT TRANSFER

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Abstract

The tall vertical fins become ineffective because of lateral interactions of the boundary layers in natural convection heat transfer. The horizontal rectangular fin array is ineffective due to stagnancy of fluid flow in the near fin region. The V fins are developed to overcome these limitations. It is observed that a third component of suction velocity, w, exists which helps establish a high heat transfer zone in the downstream region of the vertical base plate.

Keywords: Natural Convection, Heat transfer, V-fins