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Factors influencing on the thermal flow with the cross-section of the corridor tube bundle in low-frequency non-symmetric pulsations

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Abstract

© Published under licence by IOP Publishing Ltd. Factors influencing on the thermal flow of cylinder of corridor tube bundle in pulsating flow of fluid was analyzed numerically. The range of Reynolds numbers was Re < 1000 pulsation frequency f = 0.5, Hz, relative amplitude A / D = 1.25. It is shown that the increase in the thermal flow in tube bundle when pulsations are applied to the flow of fluid is mainly due to the convective component. The change in the temperature pressure and turbulence contributes less to the increase in the thermal flow.

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