ANALYSIS OF VARIATIONAL MODELS OF ECOLOGICAL CHARACTERISTICS OF THE MACHINES FOR WHIPPING FOOD

I. Zapletnikov, A. Piltenko, A. Gordinenko, I. Sevatorova

This article presents the regression models, the sound power level of UKM whipping kitchen machine under various operating conditions. Consistent patterns of noise characteristics (NC) of UKM whipping kitchen machine in the working process, at various rotation speeds of the working body, the volume of the product and different densities are defined and established. NC spectral analysis of UKM machine and its components under different operating conditions was performed. The region of machine NC excess limits was determined and construction changes in whipping kitchen machine for the improvement of vibro-acoustic characteristics were recommended. Technological parameters of noise characteristics of the universal kitchen machine were estimated.

Keywords: whipping, noise characteristic, universal kitchen machine, the sound power.