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The methods and tools that allow for determination of distribution of local thermal and hydraulic parameters in the air cooler taking into consideration the nonuniform surface con-tamination have been developed. The methods of simulation modeling are used for generating the distribution of contami-nants and clogs in a pipe due to their prevailing random charac-ter. The life time of these air coolers is determined by generat-ing the intensity of contaminants formation taking into consid-eration the character of dependence of contaminants accumula-tion on heat exchanger parameters. Il.4.Bibliogr.7 names.