

Thematic course: Cooling of recycled water of industrial enterprises. Part 2.

## **Designing the polymer block of the cooling tower sprinkler**

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### **Abstract**

Any industrial and technological equipment needs to be cooled in order to ensure removal of excess heat to the environment. Mostly the removal of low-grade heat is performed by water circulating systems. In its turn, cooling of the circulating water most often occurs in the fan and cooling towers, which are used practically in all industries. Especially intensively they are used in power, chemical, oil refining and steel industries. The effectiveness of water cooling in cooling towers is primarily determined by their packed equipment – sprinklers. This paper presents the design of sprinkler unit coolers developed by the authors.