Programming control and monitoring of a domestic hot water recirculation system model.

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Abstract: This topic aims to assess the necessity of applying control programming technology in the efficient management of water resources in residential buildings. The main objective is to build an automated system to monitor and control the hot water recirculation process, ensuring high efficiency and energy savings. The research methodology includes both theoretical analysis and experimental implementation on a test system. The expected results from this topic will significantly contribute to technological improvements in the refrigeration and air conditioning industry, enhancing quality of life while minimizing environmental impact.

Keywords: Control programming, automation monitoring, domestic hot water recirculation system