

Electrical and communication equipment in the domestic hot water recirculation system model

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Abstract: This topic focuses on analyzing and designing electrical and communication systems for a domestic hot water recirculation system model. The reason for choosing this topic stems from the necessity of optimizing energy efficiency in residential buildings. The objective is to build a comprehensive solution to provide both communication and electrical services simultaneously, enhancing system management capabilities. The research method includes synthesizing knowledge from existing literature and conducting experiments on typical buildings. The expected result is to contribute to the sustainable development of the residential construction industry by improving system performance and automation.

Keywords: hot water recirculation system, electrical equipment, communication, energy optimization, civil engineering