

Mechanical design, fabrication, and installation of a domestic hot water recirculation system model.

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Abstract: In the context of increasingly efficient energy use, this topic focuses on the mechanical design, fabrication, and installation of a domestic hot water recirculation system model. The objective of the research is to develop an optimal solution for reusing water heat in households. The approach combines mechanical design theory with experimentation to ensure high energy efficiency and safety. The expected outcomes of this topic not only provide the market with an innovative technical product but also contribute to the development of water heat recycling technology in domestic applications.

Keywords: hot water recirculation, mechanical design, fabrication and installation