Design of a medium-frequency electric furnace (power 250 kW)

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Abstract: This project aims to design and implement a medium-frequency electric furnace with a capacity of 250 kW, meeting production requirements in modern industries. The objective of the project is to study the theory of operating principles and optimize the performance of the electric furnace, thereby building a model and deploying the actual equipment. The method combines theory and experimentation to ensure high applicability. The expected results will significantly contribute to upgrading thermal power systems in industrial plants.

Keywords: Medium frequency electric furnace, Power 250 KW, Design, Performance optimization, Theoretical research