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The design of the embeded-type stirling cryocooler

The design method of a new model called embeded-type stirling cryocooler is presented in this paper in order to make the Stirling cryocooler's volume much smaller and its length much shorter. The designed stirling cryocooler's expander is embedded into its compressor to shorten the length of complete machine. The SAGE software was used to test and verify the feasibility of the embeded-type stirling cycle and the performance optimization about the electrical mahine structure and some parameters had been analysis software to make the electrical machine neet the design requirements.

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