COMPUTATIONAL THERMAL ANALYSIS OF MULTIPLE DISC TYPE ROTARY MAGNETIC REFRIGERATION SYSTEM

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Energy crisis and climate change are rocking the entire world at this moment. Refrigeration forms a major power consumer, ranging from domestic applications to industrial applications. Apart from a leading energy absorbing system, it also takes part in global warming by letting out harmful ozone depleting substances and hence turns against the environment. It is the right time to switch over from the conventional compressor based refrigeration systems. Magnetic refrigeration proves itself to be highly efficient and environmental friendly refrigeration system, making it to be the most promising source of cooling systems in the near future. Simulation of the magneto caloric refrigeration system using computational fluid dynamics approach forms the major part of this paper.

Author Name:
SHANMUGAM PEREZHIL VENDAN
VEERAPADMANABAN VEERAKRISHNAN
ESAKKIAPPA GOMATHINAYAGAM VINAYAGASUNDARAM
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