

## **Design and Fabrication of Multiutility Refrigeration System**

The project aims to satisfy various needs to bring in customer satisfaction in an economical way. In the multi-purpose refrigeration system, both heating and cooling will be done simultaneously with the help of single vapour compression refrigeration cycle. It has the waste heat recovery system from the compressor for heating effect. In a normal Vapour compression refrigeration cycle, the refrigerant coming out of the compressor liberates heat while going to the condenser. The proposed project utilizes this waste heat for the heating purpose.

It can be used for all simple vapour compression refrigeration systems. The concept can be extended for applications in air conditions, freezers, water coolers and small scale refrigeration plants. The project will lead to hybrid heating and cooling application with same vapour compression refrigeration system.

**For further information, please contact**

### **Mentor**

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