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### DESIGN AND ANALYSIS OF DOMESTIC REFRIGERATOR USING LPG CYLINDER

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### **Design Of Domestic Refrigerator Engineering Project**

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### **Design Of Domestic Refrigerator Engineering Project**

To design and analyse a refrigeration system, we want to know what the thermodynamic properties will be for the refrigerant at our four key components. Point 1: between the evaporator and the compressor. Point 2: as it leaves the compressor. Point 3: when it leaves the condenser, before it enters into the expansion valve.

### **Design a Refrigeration System - The Engineering Mindset**

The domestic refrigerator, in our case, is a small, compact unit, which works on the principle of vapour compression system. It has been designed as per economical considerations for a middle-class family. This unit is unique in the sense that its body is in the form of a bucket (plastic) which works as an evaporator.

### **Design and Fabrication of Domestic Refrigeration Unit ...**

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### **Design Of Domestic Refrigerator Engineering Project**

The principal goal of this work is to design, fabricate and test a novel laboratory magnetic refrigerator rig that is useful to gain a fundamental physical understanding of the MCE. In addition to, investigating the dynamic response influences on an Active Magnetic Regenerative Refrigeration system.

### **A Novel Design of a Domestic Magnetic Refrigerator**

In this project using LPG as refrigerant we have design and analyze refrigerator. LPG is stored in cylinder at high pressure. As this pressurized LPG is passed through the capillary tube of small internal diameter, the pressure of LPG is decreased due to expansion and phase change of LPG occurs in an isenthalpic process.

### **DESIGN AND ANALYSIS OF DOMESTIC REFRIGERATOR USING LPG CYLINDER**

test rig consisted on a prototype refrigerator, fitted with a 5 mm PCM slab, which was cooled by an external coolant system. 2. Compressor size and efficiency In the design of energy efficient domestic refrigerators it is important both to incorporate novel, energy efficient solutions, e.g.

### **Novel design and performance enhancement of domestic ...**

The domestic refrigerator is one found in almost all homes for storing food, vegetables, fruits, beverages, and much

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### **DESIGN AND ANALYSIS OF DOMESTIC REFRIGERATOR USING LPG ...**

In 1913, refrigerators for home and domestic use were invented by Fred w. wolf of Fort Wayne, Indiana with models consisting of a unit that was mounted on top of an icebox. In 1914, engineer Nathaniel B. wales of Detroit, Michigan, introduced an ideal for a practical electrical refrigeration unit which later became the basis for the kelvinator.

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