

A comparative study on star rated energy efficient refrigerator

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ABSTRACT

Technical and industrial development makes our life easy. Nevertheless, this advancements and modernization increases the expenditure on resources and goods, to satisfy the human life and make our life comfortable and prestigious. New technologies develop different appliances and equipment for a home to do task conveniently, comfortably and in limited time, but these appliances require energy in the form of electricity, to perform the work. our society is consuming electric energy at such a rate that our sources are being depleted rapidly To reduce the consumption of energy and to increase higher energy efficiency; engineers, technologies and scientists have come up with some innovative ideas introducing something new and better by bringing changes by use of new materials, new designs and new technologies in manufacturing equipment more energy efficient and economic in recent years keeping pace with this energy star products are launched in the market, few years back which are energy efficient as per claimed by the manufacturers. Today's major appliances don't hog energy the way older models do because they must meet minimum federal energy efficiency standards. These standards have been tightened over the years so any new appliances we buy today has to use less energy then the model we are replacing. People should purchase energy efficient equipment when buying new equipment or replacing an old device, choose an energy efficient device with lower consumption. Due to easy access to consumer loans with low interest rates by almost all financial institutions on different household equipment such as refrigerator, air conditioner, television etc, the purchasing power of the homemakers to purchase different household equipment has grown which in turn increases the energy consumption per house hold. To find out the availability of star rated energy efficient household equipment and to study the efficiency and efficacy or star rated refrigerators, the present study was divided into two phases *i.e.* "market survey" and "efficiency and efficacy, field testing experiment". In the first phase, 10 authorized dealers of star rated refrigerators, market survey and in conducting the field experiments during second phase were selected. In all 30 samples of different brands were selected for laboratory experiments.

KEY WORDS : Star rated energy efficient refrigerator, Efficiency, Efficacy, Electricity consumption

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INTRODUCTION

Technical and industrial developments make our life easy. But this advancements and modernization increases the expenditure on resources and goods to satisfy the human life and make our life comfortable and prestigious. New technologies develop different appliances and equipment for a home to do task conveniently, comfortably and in limited time. The major appliances used in our homes are – refrigerator, air conditioner, etc. However, these appliances require energy in the form of electricity to perform the work. But as we use more electricity in our homes, our electricity bills rise. In turn, fossil-fuelled power plants not only generate more electricity, but also more pollution. The continued reliance on depletion of fossil-

fuel resources threaten our energy security. Considered in a broader perspective not only India's electric energy reserves are very limited but also our society is consuming electric energy at such a rate that electric energy is being depleted rapidly. If the current consumption rate is allowed to continue unchecked, electric energy available in our country could exhaust soon. People should purchase energy efficient equipments when buying new equipment or replacing an old device, choose an energy efficient device with lower consumption. Energy star models are the most energy efficient in any product category, exceeding the energy efficient minimums set by federal government as claimed by most of the well-established brands. It has been observed that many energy star

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