

Department : **Mechanical**

Year : **2014-2015**

Group No: **20**

Guided By

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Project Title

DESIGN, DEVELOPMENT AND TESTING THE PERFORMANCE OF EVAPORATIVE CONDENSER IN AIR CONDITIONING SYSTEM

Abstract:

Now-a-days, air-conditioner is no more a luxurious thing. It is used everywhere including residents, industries, shopping malls and lots more. But still using an air-conditioner is not much economical because of its high power consumption. In air-conditioner, the condenser uses maximum power of all the other components. Thus our project is dedicated to reduce the power consumption of air-conditioner by introducing various basic techniques in condenser. These include evaporative type condenser and liquid sub cooling. Use of such techniques will increase the COP of air-conditioner. Increased COP means reduced power consumption of air-conditioner. Thus it makes the use of air conditioner more economical.

By adopting the evaporative cooling of condenser the power consumption reduced by 1163 watt. C.O.P. of system is increased by 64.6%. This leads towards benefit in terms of money. This modified and efficient method can save 3843 RS. Per 4 months.

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