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Guided By

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Project Title

DEVELOPMENT AND ANALYSIS OF INDIRECT EVAPORATING COOLING WITH REGENERATION EFFECT FOR DOMESTIC PURPOSE.

Abstract:

Now a day, in the market the air conditioning system and air cooler are two main devices, which uses for human comfort. In the air conditioning unit, due to compressor it requires high power consumption. In addition the many types of refrigerants which are used in air conditioning unit like halogenated chlorofluorocarbon or chlorinated fluorocarbon, ammonia which cause environment damage so it is not ecofriendly. It also occur safety problem and health problem.

In air cooler the water is vaporize in air and that air is directly pass in room. At that time temperature of air is less than the atmosphere but relative humidity (RH) is high so we feel un-comfortable.

To solve this problem, our approach is to make an indirect type evaporative cooler. In which the humidity is controlled. Another improvement is that in which we can use regenerative effect in indirect type of evaporative cooler so we can gain a low temperature air at its due point temperature. In which we get alow temperature air compare to the simple air cooler and it also environment friendly.

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