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Guided By

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Project Title

INDIRECT EVAPORATIVE COOLING WITH REGENERATION

Abstract:

Today in the market there are mainly two devices are use for human comfort. i.e. Air cooler and air conditioners. But the limitation of air cooler is that moist air is directly passing in room so room has higher relative humidity so we feel un-comfortness also not possible to supply moist air which has 100% R.H in the room .In air conditioner dehumidification is done but power consumption is high due to compressor.

So we can create new idea for above limitation. We use indirect evaporative cooling for air cooler so relative humidity is controlled. Due to indirect cooling the room air is not contact with moist air of higher relative humidity. Our new other idea is that we can use regeneration of moist air for do sensible cooling of new entering air by the help of other heat exchanger. So from above explanations we can apply a new system "Indirect evaporative cooling with regeneration".

Due to this project improve cooling rate and quality of cooling air .also improve efficiency of air cooler.

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