
Desert Air Cooler

portable evaporative air coolers - jumbo qatar - nowadays, six out of ten portable evaporative air coolers sold worldwide are produced by symphony. our goal is to be known as the best producer of evaporative air coolers across the globe and to be at every house or company that needs an efficient air cooling solution. we intend to simplify our customers' lives and to improve both their houses and their offices, adding value through our ... **"modified desert cooler (mdc)" - engg journals** - "modified desert cooler (mdc)" as the name suggest that it is the modification of the conventional cooler. it is the air conditioner cum refrigerator for people who cannot afford costly equipments like air conditioner, refrigerator and other such appliances. it cools the air more than the conventional desert cooler. the modified desert cooler is developed for providing better cooling ... **principles of evaporative cooling system - pdhonline** - principles of evaporative cooling system a. bhatia, b.e. course contents evaporative coolers, often called "swamp coolers", are cooling systems that use only water and a blower to circulate air. when warm, dry (unsaturated) air is pulled through a water-soaked pad, water is evaporated and is absorbed as water vapor into the air. the air is cooled in the process and the humidity is increased ... **design and development of modified air cooler and storage ...** - a multi- utility desert cooler [2,3] is one in which water cooling as well as cold storage systems are attached in addition to the air cooling system. the average effectiveness was found to be 65.42% and a temperature range of 22-27o c was achieved. it can be used only in areas with high temperature and low relative humidity hence reducing its scope. ndukwu macmanus chinenye [4], developed a ... **design and development of energy efficient multi-utility ...** - design and development of energy efficient multi-utility desert cooler 1 poonia m.p., 2 ... desert cooler, evaporative cooling, humidity, refrigeration 1. introduction in the north western part of india, the humidity of air is quite low during summer season whereas dry bulb temperatures are very high. this climate is most suitable for evaporative cooling 1. fresh outside air is sucked through ... **experimental investigation of desert cooler performance ...** - experimental desert cooler unit consists of a cubical box of sheet metal containing large vertical filter pads, an electric-motor-driven fan, a water pump, a water distribution system, and a water sump at the bottom as shown in fig 1. the fan draws in warm outside air through the wetted media, cooling the air. the water pump lifts the water from the sump through the distribution system to the ... **process design of air cooled heat exchangers (air coolers ...** - process design of air cooled heat exchangers (air coolers) (project standards and specifications) table of content scope 2 references 2 definitions and terminology 2 symbols and abbreviations 3 units 3 general 3 horizontal type 4 fans 4 number of fans 4 fans in various duties 5 types 5 rust prevention 6 chemical cleaning connections 6 operating temperature and pressure 7 air-side design 7 ... **is 3315 (1994): evaporative air coolers (desert coolers)** - amendment no. 2 march 2007 to is 3315 : 1994 evaporativ e air cooler s (desert coolers) — specificatio n (second revision) (page 1, clause 2) — substitute the following for the existing: **evaporative cooler: self salt clean** - □□□□□□□□ - desert coolers, and wet air coolers) are devices that cool air through the evaporation of water. they are especially well suited for hot dry region. the amount of heat transfer depends on the evaporation rate, which depends on the humidity of the air and its temperature. the normal design, therefore, is a metal box with three vented sides. each side has a removable wetted pad door. usually ... **modified air cooler with split cooling unit** - the main drawback of evaporative cooler is that the air supplied by the cooler contains the large amount of humidity. due to which when an individual sits in the air of the cooler, he/she feels stickiness on the body which is not comfortable for him/her. this project work involves the manufacturing and design of split cooling unit which will cool air but not increase its humidity. it will ... **application of evaporative air coolers coupled with solar ...** - application of evaporative air coolers coupled with solar water heater for dehumidification of indoor air a s alosaimy mechanical engineering department, faculty of engineering, taif university, ksa alosaimy@yahoo abstract--in the present work, novel configuration of solar powered desiccant dehumidification system is investigated. the proposed system comprises two evaporative air coolers ... **a review of evaporative cooling technologies - ijesd** - a review of evaporative cooling technologies . 111 o. amer, r. boukhanouf, and h. g. ibrahim doi: 10.7763/ijesd.2015.v6.571 international journal of environmental science and development, vol. 6, no. 2, february 2015. iii. direct evaporative cooling (dec) this system is the oldest and the simplest type of evaporative cooling in which the outdoor air is brought into direct contact with water, i ... **evaporative cooling design guidelines manual** - evaporative cooler using rigid media and a self-contained rooftop refrigeration unit with an eer = 10. the electricity used for air conditioning is the sum of the space **heat and mass transfer study in a direct evaporative cooler** - heat and mass transfer study in a direct evaporative cooler s s kachhwaha* and suhas prabhakar department of mechanical engineering, delhi t echnological university (formerly delhi college of engineering),

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