

Portable Evaporative Air Cooler Owners Manual

Evaporative Air-conditioning Evaporative Air Conditioning Handbook An Evaporative Air Cooler Using a Plate Heat Exchanger Indirect Dew-Point Evaporative Cooling: Principles and Applications Customs Bulletin and Decisions Customs Bulletin Energy Conservation in Buildings Evaporative Air Conditioning Handbook Solar Cooling Applications Workshop Passive Cooling Handbook ASHRAE Handbook Standards India A Manual of Practical Hygiene Prepared Especially for Use in the Medical Service of the Army Thermal Engineering Heating, Ventilating, Air Conditioning Guide Environmental Systems Technology Mobile Home Manual Handbook to the Uniform Mechanical Code Airconditioning and Ventilation of Buildings Proceedings of the American Power Conference Gert Jan Bom John Watt D. Pescod Jie Lin A. A. M. Sayigh John R. Watt Lawrence Berkeley Laboratory Edmund Alexander PARKES W. David Bevirt Trail-R-Club of America Derek Clements-Croome

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under the right conditions and applications evaporative air conditioning eac technologies can provide excellent cooling and ventilation with minimal energy consumption evaporative air conditioning technologies are being used increasingly in residential and commercial applications worldwide eac technologies which rely on water as a coolant rather than on chemical refrigerants are economical to produce and use and have important environmental benefits this paper introduces the technical aspects of eac reviews eac s scope of application and surveys the specific climatic conditions under which eac

can be used most effectively in industrialized and developing countries

air conditioning boosts man's efficiency no less than his comfort air conditioned homes offices and factories unmistakably raise human productivity and reduce absenteeism turnover mistakes accidents and grievances especially in summer accordingly many employers every year cool workrooms and offices to raise summer profits employees in turn find cool homes enhancing not only comfort and prestige but also personal efficiency and income with such economic impetus low cost summer cooling must irresistibly spread to all kinds of occupied buildings refrigeration provides our best cooling serving well where people are closely spaced in well constructed shaded and insulated structures however its first and operating costs bar it from our hottest commercial industrial and residential buildings fortunately evaporative cooling is an economical substitute in many regions first used in southwest homes and businesses and in textile mills it soon invaded other fields and climates in 1946 six firms produced 200 000 evaporative coolers in 1958 25 firms produced 1 250 000 despite the phenomenal sale of refrigerating window air conditioners though clearly secondary to refrigeration evaporative cooling is 60 to 80 percent is economical for moderate income groups and cheaper to buy and operate thus it climates where summers are short moreover it cheaply cools hot thinly constructed mills factories workshops foundries powerhouses farm buildings canneries etc where refrigerated cooling is prohibitively expensive

a new type of air cooler using inexpensive materials mostly plastics has been developed in the mechanical engineering division of the csiro extensive laboratory and field tests have been made the unit contains a plastic plate heat exchanger two fans a water pump and water spray nozzles exhaust air from the room being cooled is drawn over wet plates in the heat exchanger and the evaporated water is carried through with the air and discharged outside evaporation of the water keeps the plates cool and fresh air blown past the dry side of the plates is cooled before entering the room without any increase in absolute humidity it is possible to obtain lower temperatures and humidities in the room than is obtainable from conventional evaporative cooling systems

this book systematically discusses state of the art dew point evaporative cooling and provides key insights into current research efforts and future research interests novel energy efficient and environment friendly cooling technologies are essential to reduce the sharply rising energy consumption and greenhouse gas emissions and achieve carbon neutrality conventional air conditioners which adopt a vapor compression cycle are neither energy efficient nor sustainable due to the use of compressors and chemical refrigerants as well as their intrinsic coupling of sensible and latent cooling loads with the merits of high

energy efficiency and the ability to decouple cooling loads without using chemical refrigerants indirect dew point evaporative cooling provides an ideal alternative solution to air conditioning in a variety of applications a comprehensive review of evaporative cooling and their underlying engineering challenges is included advanced engineering and modeling experience critical to the development of dew point evaporative coolers are highlighted the effective analysis techniques for dew point evaporative coolers are documented and their intrinsic characteristics captured by these methods are reported lastly advanced dew point evaporative cooling systems in various energy connected applications are discussed by providing multiple case studies specifically targeted at hvac engineers thermal scientists and energy engineering researchers this book will balance fundamental concepts industrial applications and leading edge research as this book provides readers with depth and breadth of coverage it can also be used by graduate level students in relevant fields

the northsun 90 conference provided a forum for scientists from high latitude countries to discuss their experience of solar energy the book is divided into two parts part one deals with energy conservation and management in buildings and solar and low energy architecture part two covers all aspects of renewable energy materials science and photovoltaic conversion weather data heating and cooling of buildings hot water systems wave energy geothermal energy energy storage country programmes and other related topics in northern latitudes energy savings in buildings of up to 50 can be achieved northsun 90 encouraged the attainment of this goal promoting the use of solar energy in heating and collective work on solar projects of direct benefit to the region

providing guidance to design engineers and contractors this book illustrates in full detail how operational savings of 50 to 75 percent can be achieved with evaporative cooling technologies compared to equivalent electric based systems thorough in scope the book addresses the technical aspects of evaporative cooling as well as a broad range of specific commercial and industrial applications topics include cost analysis technology and equipment options application guidelines and operational and performance characteristics the third edition adds a new chapter which shows how evaporative cooling can be integrated into large scale hvac systems with discussions of achievable savings maintenance costs cooling tower and finned coil indirect cooling wet bulb economizers precooling condensed air makeup air and return air humidity control and more including sample calculations as well as demonstration and engineering data book jacket title summary field provided by blackwell north america inc all rights reserved

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