



# Chiller Design Guide

**Christian Drosten**



## **Chiller Design Guide:**

The Solar Cooling Design Guide Daniel Mugnier, Daniel Neyer, Stephen D. White, 2017-08-31 Solar cooling systems can be a cost effective and environmentally attractive air conditioning solution The design of such systems however is complex Research carried out under the aegis of the International Energy Agency s Solar Heating and Cooling Program has shown that there is a range of seemingly subtle design decisions that can impact significantly on the performance of solar cooling systems In order to reduce the risk of errors in the design process this guide provides detailed and very specific engineering design information It focuses on case study examples of installed plants that have been monitored and evaluated over the last decade For three successful plants the design process is described in detail and the rationale for each key design decision is explained Numerical constraints are suggested for the sizing selection parameters of key equipment items Moreover the application conditions under which the system selection is appropriate are discussed By following The Guide for any of the three specific solar cooling systems the designer can expect to reliably achieve a robust energy saving solution This book is intended as a companion to the IEA Solar Cooling Handbook which provides a general overview of the various technologies as well as comprehensive advice to enable engineers to design their own solar cooling system from first principles

**The Integrative Design Guide to Green Building** 7group, Bill Reed, 2011-10-11 The members of 7group and Bill Reed are examples writ large of the kind of leadership that is taking this idea of green building and forming it into reality by helping change minds building practice and design process from the Foreword by S Rick Fedrizzi President CEO and Founding Chair U S Green Building Council A whole building approach to sustainability The integrative design process offers a new path to making better green building decisions and addressing complex issues that threaten living systems In The Integrative Design Guide to Green Building Redefining the Practice of Sustainability 7group s principals and integrative design pioneer Bill Reed introduce design and construction professionals to the concepts of whole building design and whole systems With integrative thinking that reframes what sustainability means they provide a how to guide for architects designers engineers developers builders and other professionals on incorporating integrative design into every phase of a project This practical manual Explains the philosophy and underpinnings of effective integrative design addressing systems thinking and building and community design from a whole living system perspective Details how to implement integrative design from the discovery phase to occupancy supported by process outlines itemized tasks practice examples case studies and real world stories illustrating the nature of this work Explores the deeper understanding of integration that is required to transform architectural practice and our role on the planet This book both practical and thoughtful will help you deliver your vision of a sustainable environment

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30% more energy efficient Provided by publisher **ASHRAE Handbook** ,2007 **Cogeneration Design Guide** J. A. Orlando,1996 This design guide offers a thorough discussion of the theoretical as well as the practical aspects of a cogeneration system design A brief discussion of the legal and regulatory aspects is followed by a detailed discussion of the prime movers reciprocating engines combustion turbines and steam turbines heat recovery and electrical recovery equipment There are two case studies a hospital and an industrial application to help illustrate the entire design process ASHRAE Research Project 737 *District Cooling Guide* American Society of Heating and Air-Conditioning Engineers,2019 District Cooling Guide provides design guidance for all major aspects of district cooling systems including central chiller plants chilled water distribution systems and consumer interconnection Guide s useful for both the inexperienced designer as well as those immersed in the industry such as consulting engineers utility engineers district cooling system operating engineers central plant design engineers and chilled water system designers Provided by publisher *Recommended U.S.-Italy Collaborative Guidelines for Bracing and Anchoring Nonstructural Components in Italian Hospitals* ,2003 *Chiller Heat Recovery Application Guide* Chad B. Dorgan,Charles E. Dorgan,Robert J. Linder,1999 **ASHRAE Transactions** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1994 *District Cooling Guide* ,2019 **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1979 Guide to Energy-efficient Commercial Equipment ,2000 *Commercial Cool Storage Design Guide* Electric Power Research Institute,2001-02-15 This handbook provides comprehensive guidance for designing ice and chilled water storage systems for commercial buildings It contains state of the art information necessary to evaluate the cost effectiveness of cool storage options and select configure and screen system alternatives **Gas Cooling Scoping Study Results** Charlene Spoor,Ken Gillespie,Sam Ramon,Pacific Gas and Electric Company,2010 Practical Guide to Energy Management for Facilities Engineers and Managers Thomas E. Mull,2001 This guide examines practical applications and presents examples for conserving energy and reducing energy costs in commercial institutional and industrial plants and facilities Registered Mechanical Engineer Mull provides an introduction to the basic scientific principles and economics of energy management Then commonly used energy consuming equipment and systems are profiled Some of the topics covered include steam and hydronic boilers and pumping chilled water air distribution HVAC electrical lighting compressed air refrigeration heat recovery cogeneration energy management and thermal storage systems c Book News Inc **District Cooling Guide** ,2019 District Cooling Guide provides design guidance for all major aspects of district cooling systems including central chiller plants chilled water distribution systems and consumer interconnection Guide s useful for both the inexperienced designer as well as those immersed in the industry such as consulting engineers utility engineers district cooling system operating engineers central plant design engineers and chilled water system designers *A Guide for Building and Facility Automation Systems* John P. Cilia,1991 **Facilities Design & Management** ,1993 **District**

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