

36 9 Ashrae Handbook 2003

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2003 ashrae handbook hvac applications si version hard cover

2003 ashrae handbook hvac applications i p version hard cover

this book provides a thorough introduction to how heating ventilating and air conditioning hvac systems control temperature air quality and air circulation in a conditioned space

this comprehensive volume often called the hvac bible has been thoroughly updated to cover the latest code changes equipment and techniques hvac equations data and rules of thumb 3e offers all of the information an hvac student or professional needs in one resource the book thoroughly explains the expansion of piping systems and temperature limitations of new materials such as polyethylene polypropylene pvc cpvc and pex detailed information is included for all types of facilities including offices hotels hospitals restaurants commercial spaces and computer rooms this practical handbook reflects all the latest code changes including the ashrae standards and explains how to interpret and put them to use it includes completely updated coverage of new pumps chillers air handling units cooling equipment boilers and pipe material you will get complete coverage of sustainability organizations that have become more important since last edition including leed usgbc energy star features hundreds of equations and rules for everything from ductwork to air handling

systems includes a brand new chapter on sound vibration and acoustics contains an updated list of equipment manufacturers for all products featured

heating ventilation and air conditioning hvac systems are omnipresent in modern buildings this book is an introduction for all those involved in the specification design manufacture installation operation or maintainance of these systems developed jointly with the ashrae learning institute the leading and recognised technical experts in the industry this inch pound edition is primarily for use in us markets an si version is also available on isbn 0123739985 the book explains the objectives to be achieved by a system in terms of environmental control the description of a system including primary equipment means of distribution space and load determination and operating strategy the basic function of components that form hvac systems the layout and functioning of common hvac systems including all air systems air water systems and all water systems the strategies for operating systems and their basic means of control identifying the most suitable type of system for different types of application air conditioning is a major industry and growing shows how systems operate and how to select design and operate them efficiently to minimise installation cost and ongoing energy cost endorsed by and developed with ashrae the leading trade body and recognised technical experts provides a thorough introduction to how hvac systems function in controlling temperature air quality and air circulation in a controlled space

the latest information and tricks of the trade for achieving first rate hvac designs on any construction job hvac equations data and rules of thumb presents a wealth of state of the art hvac design information and guidance ranging from air distribution to piping systems to plant equipment this popular reference has now been fully updated to reflect the construction industry s new single body of codes and standards featuring an outline format for ease of use the second edition of this all in one sourcebook contains updated hvac codes and standards including the 2006 international building code over 200 equations for everything from ductwork to air handling systems asme and ashrae code specifications over 350 rules of thumb for cooling heating ventilation and more new material including coverage of the new single body of construction codes now used throughout the country inside this updated hvac design guide definitions equations rules of thumb for cooling heating infiltration ventilation humidification people occupancy lighting and appliance equipment cooling load factors heating load factors design conditions and energy conservation hvac system selection criteria air distribution systems piping systems general hydronic glycol steam steam condensate ac condensate refrigerant central plant equipment air handling units chillers boilers cooling towers heat exchangers auxiliary equipment fans pumps motors controllers variable frequency drives filters insulation fire stopping automatic controls building automation systems equipment schedules equipment manufacturers building construction business fundamentals architectural structural and electrical information conversion factors properties of air and water designer s checklist professional societies and trade organizations references and design manuals cleanroom criteria and standards

annotation the 2009 ashrae handbook fundamentals covers basic principles and data used in the hvac r industry updated with research sponsored by ashrae and others this volume includes 1 000 pages and 39 chapters covering general engineering information basic materials climate data load and energy calculations duct and pipe design and sustainability plus reference tables for abbreviations and symbols i p to si conversions and physical properties of materials an accompanying cd rom free with the book also sold separately contains all the volume s chapters in both i p and si units

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this comprehensive handbook provides instant access to all the data calculations and equations needed for modern hvac design detailing up to the minute design methods operation and maintenance procedures and

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