



HVAC Equations, Data and Rules of Thumb

By Arthur A. Bell



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HVAC answers at your fingertips! Grab this book...it's filled with valuable equations that most HVAC personnel use on a daily basis.

-- Bob Rosaler, author, bestselling HVAC Handbook.

It's very easy to find all those minute details that often mean the difference between an average design and an excellent one.

-- David Meredith, Chairman, Building Environmental Systems Technology, Penn State University.

The most complete, most job-critical reference for the most frequently used HVAC design data describes HVAC Equations, Data, Rules of Thumb. Veteran HVAC designer Arthur Bell Jr.'s handy, superbly organized data bank follows the CSI MasterFormat.

You'll reach for this time-saving task-simplifier dozens of times every working day for: Equations - more than 216 equations for everything from ductwork to air change rates...from steel pipe, relief valve and water heater sizing to NPSH calculations, Data definitions, ASME and ASHRAE code specs, air and waterproperties, conversion factors, building construction business fundamentals, equipment manufacturers, energy conservation conditions, auxiliary equipment, designer's checklists, professional societies and organizations, and more. 358 Rules of Thumb in all for buildings of every imaginable type, from churches to cocktail lounges. Includes cooling and heating loads, infiltration, ventilation, humidification, people/occupancy, lighting,appliance/equipment, more.

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Editorial Review

From the Back Cover

"Grab this book ... it's filled with valuable equations that most HVAC personnel use on a daily basis." --Bob Rosaler, author of HVAC Handbook "I especially like the organizational structure ... it's very easy to find all those minute details that often mean the difference between an average design and an excellent one." --David Meredith, Chairman, Building Environmental Systems Technology, Penn State University "Extremely comprehensive and useful ... contains important related data dealing with codes, electrical equipment, and architectural considerations." --Ross Collard, P.E. Instant HVAC Answers HVAC Equations, Data, and Rules of Thumb Arthur Bell's handy and well-organized guide is the most complete, most job-critical reference book on the most frequently used HVAC design data. If you're involved in HVAC--whether as a technician repairing a system, an architect working around a system, or a design engineer designing a new system--you can trust this one-of-a-kind source for fast solutions to specific problems. Look inside for: Equations--more than 216 equations for everything from air change rates to swimming pools to steel pipes. Data--definitions, professional societies and organizations, energy conservation conditions, auxiliary equipment, air and water properties, ASME and ASHRAE code specs, designer's checklists, and more. Rules of thumb--358 in all, covering cooling loads, heating loads, infiltration, ventilation, humidification, people/occupancy, lighting, appliance/equipment, and more. Written by a veteran HVAC designer, and following the CSI MasterFormat™, HVAC Equations, Data, and Rules of Thumb is a must for mechanical, architectural, and electrical engineers, HVAC contractors and technicians, and others. On the job, in the office, or behind the drawing table, this time-saving, task-simplifying working tool is the one you'll rely on--and value--every day, for projects large and small.

About the Author

Arthur A. Bell, Jr., is a registered professional engineer with more than 15 years' experience designing HVAC systems. Mr. Bell has also been involved in the design of plumbing systems, fire protection systems, and construction field engineering-mechanical systems. He has taught ASHRAE HVAC classes, as well as contractor training courses. A member of ASHRAE, ASPE, NFPA, AEI, and NSPE, he is a resident of Monaca, Pennsylvania.

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