



HVAC Equations, Data, and Rules of Thumb, Third Edition (Mechanical Engineering)

By Arthur Bell, W. Larsen Angel

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“Tricks of the Trade” For State-of-the-Art HVAC Design on Construction Jobs of Any Size!

This fully revised, industry-standard handbook presents a wealth of HVAC design information encompassing all types of facilities—from offices and hospitals to commercial spaces and computer rooms. Written in an outline format for ease of use, this practical reference offers hundreds of field-tested equations and rules of thumb and features all-new coverage of the latest building components and materials. HVAC Equations, Data, and Rules of Thumb, Third Edition, reflects all the latest changes to the codes and standards used in the industry—including ASHRAE, ICC, NEC, and NFPA—and clearly shows how to interpret and put them to use.

This thoroughly updated third edition covers:

- Definitions
- Equations
- Rules of Thumb for Cooling, Heating, Infiltration, Ventilation, Humidification, People/Occupancy, Lighting, and Appliance/Equipment
- Cooling and Heating Load Factors
- Design Conditions and Energy Conservation
- HVAC System Selection Criteria
- Air Distribution Systems
- Piping Systems, Including Plastic Piping
- Central Plant Equipment (Air-Handling Units, Chillers, Boilers, Cooling Towers, Heat Exchangers)
- Sustainability Guidelines
- New Technologies for HVAC
- Noise and Vibration Control
- Architectural, Structural, and Electrical Considerations
- Properties of Air and Water
- Auxiliary Equipment (Fans, Pumps, Motors, Controllers, Variable-

Frequency Drives, Filters, Insulation, Fire-Stopping)

- **Automatic Temperature Controls/Building Automation Systems**
- **Building Construction Business Fundamentals**
- **Architectural, Structural, and Electrical Information**
- **Conversion Factors**
- **Designer's Checklist**
- **Professional Societies and Trade Organizations**
- **References and Design Manuals**
- **Cleanroom Criteria and Standards**

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Editorial Review

About the Author

Arthur A. Bell, Jr., P.E., is a registered professional engineer and certified mechanical, plumbing, fire, and energy conservation code official in the Commonwealth of Pennsylvania with more than 31 years of experience in the design of HVAC systems. In addition, he has been involved in the design of plumbing systems, fire protection systems, and construction field engineering-mechanical systems. Mr. Bell is also the author of *HVAC Design Portfolio*, published by McGraw-Hill.<?xml:namespace prefix = "o" ns = "urn:schemas-microsoft-com:office:office" />

W. Larsen Angel, P.E., LEED AP, is a registered professional engineer in the State of Maryland with more than 25 years of experience in the design of HVAC systems. In addition, he has been involved in the design of plumbing systems and electrical systems. Mr. Angel is also the author of *HVAC Design Sourcebook*, published by McGraw-Hill.

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