

Cooling Load Check Figure

(based on the AIRAH Handbook 3rd edition)

Occupancy	Cooling Load W/m ² (air conditioned area)
Apartments/ Residence Night only	100
Apartments/ Residence (insulated & not facing west)	150
Apartments/ Residence (un-insulated & facing west)	200
Auditorium	280
Banks	175
Bar/dresser	215
Beauty Shop (consider appliances)	260
Cafeteria	350
Classroom	95
Clinic	190
Clothing Store	165
Computer Room (allow for future expansion)	480
Conference Room	275
Department Store Basement	125
Department Store Main Floor	150
Department Store Upper Floors	125
Factory - light manufacture	275
Factory - Heavy manufacture	490
Food Stores	160
Hotel & Motel Rooms	120
Laboratory	130
Library	150
Mall	135
Medical Offices	185
Milk Bars, Fast Food (count kW of appliances)	270
Office - General (Perimeter)	170
Office - General (Interior)	100
Office - Private	180
Post Office	180
Restaurants	350
Residential - Check Figure	kW-m ² /6
Shoe Store	185
Super Market	180
Theatre	280

Only use these figures for preliminary estimates or to check a full load estimate.

Design Cooling Load Check Figures

**United States. National Bureau of
Standards**



Design Cooling Load Check Figures:

HVAC Design Data Sourcebook Robert O. Parmley, 1994 A compact 5x8 25 data sourcebook for engineers and designers providing basic authoritative answers on general HVAC questions in an easy access format Annotation copyright by Book News Inc Portland OR

Air-conditioning System Design Manual Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings

Cooling and Heating Load Calculation Manual, 1980 *Cooling and Heating Load Calculation Manual* American Society of Heating, Refrigerating and Air-Conditioning Engineers, William Rudoy, Joseph F. Cuba, 1979

Analysis and Design of Heating, Ventilating, and Air-Conditioning Systems, Second Edition Herbert W. Stanford III, Adam F. Spach, 2019-04-01 Analysis and Design of Heating Ventilating and Air Conditioning Systems Second Edition provides a thorough and modern overview of HVAC for commercial and industrial buildings emphasizing energy efficiency This text combines coverage of heating and air conditioning systems design with detailed information on the latest controls technologies It also addresses the art of HVAC design along with carefully explained scientific and technical content reflecting the extensive experience of the authors Modern HVAC topics are addressed including sustainability IAQ water treatment and risk management vibration and noise mitigation and maintainability from a practical point of view

Building Science Series United States. National Bureau of Standards, 1971

The HPAC&V Contractor's Reference Book and License Review John Gladstone, George Perpich, 1987

Use of Computers for Environmental Engineering Related to Buildings Tamami Kusuda, 1971

Chilled Water Plant Design and Specification Guide, 2000 *Recent Research in Heat Pump Design, Analysis, and Application* American Society of Mechanical Engineers. Winter Annual Meeting, 1992

HVAC Systems Design Handbook Roger Haines, Lewis Wilson, 2003-03-21 A classic reference providing the applications on the job insights codes and specifications and direction needed to design HVAC systems Covers residential commercial and industrial systems NEW coverage of Energy Conservation and Digital Control Practice and greater emphasis on indoor air quality

Refrigerating Data Book and Catalog American Society of Refrigerating Engineers, 1957

HVAC Systems Design Handbook Roger W. Haines, C. Lewis Wilson, 1994 The all in one book that will help identify new solutions in HVAC systems applications Table of Contents HVAC Engineering Fundamentals Design Procedures Load Calculations Design Procedures General Concepts for Equipment

Selection Air Handling Systems Fluid Handling Systems Automatic Controls Cooling Heating Air Handling Electrical Features
 of HVAC Systems Design Documentation and Follow Up Technical Report Writing and Specifications Writing Index
 Illustrations **Air Conditioning Refrigerating Data Book** ,1957 **Heating, Ventilating, and Air-conditioning
 Systems Estimating Manual** A. M. Khashab,1984 Good No Highlights No Markup all pages are intact Slight Shelfwear may
 have the corners slightly dented may have slight color changes slightly damaged spine *Computer Programs for the
 Building Industry* Geoffrey Hutton,Michael Rostron,1984 **HVAC Systems Design Handbook, Fifth Edition** Roger W.
 Haines,Michael E. Myers,2009-11-02 A complete fully revised HVAC design reference Thoroughly updated with the latest
 codes technologies and practices this all in one resource provides details calculations and specifications for designing
 efficient and effective residential commercial and industrial HVAC systems HVAC Systems Design Handbook Fifth Edition
 features new information on energy conservation and computer usage for design and control as well as the most recent
 International Code Council ICC Mechanical Code requirements Detailed illustrations tables and essential HVAC equations
 are also included This comprehensive guide contains everything you need to design operate and maintain peak performing
 HVAC systems Coverage includes Load calculations Air and fluid handling systems Central plants Automatic controls
 Equipment for cooling heating and air handling Electrical features of HVAC systems Design documentation drawings and
 specifications Construction through operation Technical report writing Engineering fundamentals fluid mechanics
 thermodynamics heat transfer psychrometrics sound and vibration Indoor air quality IAQ Sustainable HVAC systems Smoke
 management *Building Control Systems* Vaughn Bradshaw,1985-03-21 An introductory non technical text for four year
 architecture students of environmental control systems Designed as an alternative to other more heavy handed texts Building
 is more concise less engineering oriented and more relevant to basic concepts in the architectural design process and what
 an architect needs to understand in order to communicate and coordinate with consultants in many disciplines Topics
 covered include the theoretical bases for thermal control active and passive systems to control the thermal environment
 electrical systems plumbing systems fire protection noise control and methods for making design decisions **Proceedings
 of the Institution of Electrical Engineers** Institution of Electrical Engineers,1910 Vols for 1970 79 include an annual
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Table of Contents Design Cooling Load Check Figures

1. Understanding the eBook Design Cooling Load Check Figures
 - The Rise of Digital Reading Design Cooling Load Check Figures
 - Advantages of eBooks Over Traditional Books
2. Identifying Design Cooling Load Check Figures
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Design Cooling Load Check Figures
 - User-Friendly Interface
4. Exploring eBook Recommendations from Design Cooling Load Check Figures
 - Personalized Recommendations
 - Design Cooling Load Check Figures User Reviews and Ratings
 - Design Cooling Load Check Figures and Bestseller Lists
5. Accessing Design Cooling Load Check Figures Free and Paid eBooks
 - Design Cooling Load Check Figures Public Domain eBooks
 - Design Cooling Load Check Figures eBook Subscription Services
 - Design Cooling Load Check Figures Budget-Friendly Options

6. Navigating Design Cooling Load Check Figures eBook Formats
 - ePub, PDF, MOBI, and More
 - Design Cooling Load Check Figures Compatibility with Devices
 - Design Cooling Load Check Figures Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Design Cooling Load Check Figures
 - Highlighting and Note-Taking Design Cooling Load Check Figures
 - Interactive Elements Design Cooling Load Check Figures
8. Staying Engaged with Design Cooling Load Check Figures
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Design Cooling Load Check Figures
9. Balancing eBooks and Physical Books Design Cooling Load Check Figures
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Design Cooling Load Check Figures
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Design Cooling Load Check Figures
 - Setting Reading Goals Design Cooling Load Check Figures
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Design Cooling Load Check Figures
 - Fact-Checking eBook Content of Design Cooling Load Check Figures
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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