

Client : **Modi Residence**  
Site: **Mumbai**

Date: **29.08.2015**  
Area: **Bedroom 2**

Length	Width	Height (ft.)	Area	Volume
		<b>10</b>	<b>170.00</b>	<b>1700.00</b>
Item	Area/Qty	Sun Gain/ Temp Diff. BTU/hr/sqft	Factor	BTU/HOUR
<b>DAJ ROOM SENSIBLE LOADS</b>				
<b>Solar gain-GLASS</b>				
N	0	23	0.58	0
E	0	12	0.58	0
S	0	12	0.58	0
W	40	18.3	0.58	3651
NE	0	12	0.58	0
SE	0	12	0.58	0
SW	0	100	0.58	0
NW	0	138	0.58	0
<b>Solar Trans. Gain-Wall &amp; Roofs</b>				
N	0	9.5	0.38	0
E	0	23.5	0.38	0
S	0	21.5	0.38	0
W	80	21.5	0.38	619
NE	0	12.5	0.38	0
SE	0	20.5	0.38	0
SW	0	16.5	0.38	0
NW	0	8.5	0.38	0
<b>Trans.Gain except Walls &amp; Roofs</b>				
Air Glass	40	20.5	1.13	927
Partition	271.00	15.5	0.32	1344
Roof Exp.	0.00	33	0.48	0
Ceiling	0.00	15.5	0.32	0
Floor	170.00	15.5	0.48	1265
<b>Infiltration &amp; Out side Air</b>				
Infiltration				
Outside air	30.2	20.5	0.1296	80
<b>Internal Heat</b>				
People	4	1	245	980
Light (Wt)	170.00	1.25	3.41	725
Computers (Wt)	1	120	3.4	408
Equipments (Wt)	0	1	2400	0
Fan Motor Output	7.50% Safety		5%	5939
ROOM SENSIBLE HEAT TOTAL				11249
<b>(B) ROOM LATENT HEAT</b>				
Out Side Air	30.2	86.9	0.0816	214
People	4	1	205	820
Room Latent Heat Sub Total				1034
Safety	5%			52
ROOM LATENT HEAT TOTAL				1086
ROOM TOTAL HEAT (A + B)				12335
<b>OUT SIDE AIR SEN / LAT HEAT (LOAD ON COOLING COIL)</b>				
Sensible	30.2	20.5	0.5504	588
Latent	30.2	86.9	0.5584	1570
Return Duct Heat Gain	5%			562
TONS	GRAND TOTAL HEAT (BTU/Hr)			15.056
OTHER HEAT GAINS @ 3%				452
TONS	GRAND TOTAL HEAT (BTU/Hr)			15.507

Conditions	DBT	WBT	% RH	GR/LB
Outside	95	83	60	152
Room	74.5	65	50	65.1
Difference	20.5	18	10	86.9

B.P. = 0.12

Sensible Heat Factor = 0.91

Selected ADP = 34

Dehumidified rise = 18.04

TOTAL D.CFM = 577.35

TONNAGE = 1.3

SOFT / TR		131.5
SOFT/PERSON		42.5
CFM/SOFT		2.4
CFM/TR		446.8
F.A. CHANGES		1.1
R.A. CHANGES		20.4

#### Comments:

1. Outside Conditions: MUMBAI
2. Weight of Wall = 100 lbs/sqft
3. Exposed glass are considered of Ordinary Type with 45 Deg Venetian Bl or LIGHT Color.
4. All External walls are considered as exposed.
5. Lighting load considered is 1 W /Sqft
6. All data is according to 4pm for the month of April
7. Indoor Room Temperature considered : 25 Deg C and 50-60% RH have
8. The space into consideration has been considered as roof exposed dir to sun.
9. The Top side of the drawing provided is considered as NORTH.

Prepared by : TEAM EGPt., Mumbai

# Manual Heat Load Calculation For Air Conditioning

**Jeffrey D. Spitler**



## **Manual Heat Load Calculation For Air Conditioning:**

**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 **Load Calculation Applications Manual** Jeffrey D. Spitler, 2014-05-14 Focuses on the radiant time series and heat balance methods for calculating cooling loads in nonresidential buildings The intended audience is relatively new engineers who are learning to do load calculations as well as experienced engineers who wish to learn the radiant time series method Provided by publisher

Cooling and Heating Load Calculation Manual Faye C. McQuiston, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Jeffrey D. Spitler, 1992 Provide a comprehensive source of theory procedures and data for cooling and heating load calculations for other than residential buildings Manual J - Residential Load Calculation Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions **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 **Load Calculation for Residential Winter and Summer Air Conditioning**, 1986 **Cooling and Heating Load Calculation Manual** Faye C. McQuiston, 1994 **HVAC and Chemical Resistance Handbook for the Engineer and Architect** Tom Arimes, 1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria *Energy Research and Development and Small Business: how much? How much more from small business? How soon?* United States. Congress. Senate. Select Committee on Small Business, 1975 Energy Research and Development and Small Business United States. Congress. Senate. Select Committee on Small Business, 1975 *Audel HVAC Fundamentals, Volume 1* James E. Brumbaugh, 2012-07-02 A reference you ll warm up to From the background and

basics of heating systems to the newest chip based technology this first volume of Audel's HVAC Library gives you comprehensive information you need on the job Whether you're installing servicing repairing or troubleshooting an old or new heating system you'll find what you're looking for from wood and coal furnace maintenance to new calculations and the latest environmental technologies and regulations Review the basics of installation wiring and troubleshooting for different HVAC systems Choose the correct system for the space climate and needs Compare the economy and efficiency of various fuel types Install maintain and troubleshoot conversion units Find formula cross references data tables with conversions and listings of trade organizations and equipment manufacturers      Residential Load Calculation Hank Rutkowski, 2001-12-12

*How to Design an HVAC System: A Comprehensive Guide* Charles Nehme, In an era where our lives are increasingly spent indoors the quality of our built environments has never been more paramount From the air we breathe to the thermal comfort we experience the unseen forces of heating ventilation and air conditioning HVAC systems silently orchestrate our well being productivity and health Yet for many the intricate workings of HVAC remain a mystery often relegated to an afterthought in the grand scheme of architectural design This oversight however comes at a significant cost not only in terms of comfort and health but also in substantial energy consumption and environmental impact Having dedicated over three decades to the dynamic world of HVAC and MEP consulting across diverse global landscapes I've witnessed firsthand the transformative power of well designed systems and the profound consequences of their neglect From the complex industrial facilities that power our economies to the towering commercial structures where innovation thrives and the intimate residential spaces we call home the principles of optimal air management remain universal yet their application demands nuanced understanding and precise execution This book *Mastering HVAC System Design A Comprehensive Guide* is born from that extensive experience and a deep seated commitment to demystifying the art and science of HVAC engineering It is crafted not just for seasoned professionals seeking to refine their expertise but also for aspiring engineers architects building owners and anyone keen to understand the critical backbone of modern structures My aim is to bridge the gap between theoretical knowledge and practical application providing a holistic framework that empowers you to design systems that are not only efficient and effective but also sustainable and resilient We will embark on a journey from the fundamental principles of heat transfer and psychrometrics through the meticulous process of load calculations to the intricate dance of equipment selection and sophisticated control strategies We will delve into the critical aspects of indoor air quality energy efficiency and the long term stewardship of these vital systems through proper commissioning and maintenance My hope is that this guide serves as your trusted companion illuminating the path to creating environments that are healthier more comfortable and significantly more sustainable for generations to come Let us design smarter buildings so we can all breathe better Charles Nehme Global HVAC and MEP Consultant      *Contractor's Guide to the Building Code* Jack M. Hageman, 2008 Don't let your jobs be held up by failing code inspections Smooth sign off by the inspector is the goal but to make this ideal

happen on your job site you need to understand the requirements of latest editions of the International Building Code and the International Residential Code Understanding what the codes require can be a real challenge This new completely revised Contractor's Guide to the Building Code cuts through the legalese of the code books It explains the important requirements for residential and light commercial structures in plain simple English so you can get it right the first time **The CRC Handbook of Mechanical Engineering** D. Yogi Goswami, 2004-09-29 The second edition of this standard setting handbook provides an all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering **Heating, Ventilating, and Air Conditioning** Faye C. McQuiston, Jerald D. Parker, Jeffrey D. Spitler, 2004-08-06 HEATING VENTILATING AND AIR CONDITIONING Completely revised with the latest HVAC design practices Based on the most recent standards from ASHRAE this Sixth Edition provides complete and up to date coverage of all aspects of heating ventilation and air conditioning You'll find the latest load calculation procedures indoor air quality procedures and issues related to ozone depletion Throughout the text numerous worked examples clearly show you how to apply the concepts in realistic scenarios In addition several computer programs several new to this edition help you understand key concepts and allow you to simulate various scenarios such as psychometrics and air quality load calculations piping system design duct system design and cooling coil simulation Additionally the load calculation program has been revised and updated These computer programs are available at the book's website [www.wiley.com/college/mcquiston](http://www.wiley.com/college/mcquiston) Key Features of the Sixth Edition Additional new worked examples in the text and on the accompanying software Chapters 6-9 have been extensively revised for clarity and ease of use Chapter 8 The Cooling Load now includes two approaches the heat balance method as recommended by ASHRAE and the simpler RTS method Both approaches include computer applications to aid in calculations Provides complete authoritative treatment of all aspects of HVAC based on current ASHRAE standards Numerous worked examples and homework problems provide realistic scenarios to apply concepts **Modelling Methods for Energy in Buildings** Chris Underwood, Francis Yik, 2008-04-15 Climate change mitigation and sustainable practices are now at the top of political and technical agendas Environmental system modelling provides a way of appraising options and this book will make a significant contribution to the uptake of such systems It provides knowledge of the principles involved in modelling systems builds confidence amongst designers and offers a broad perspective of the potential of these new technologies The aim of the book is to provide an understanding of the concepts and principles behind predictive modelling methods review progress in the development of the modelling software available and

explore modelling in building design through international case studies based on real design problems      Building Services Design for Energy Efficient Buildings Paul Tymkow, Savvas Tassou, Maria Kolokotroni, Hussam Jouhara, 2013-07-18 The role and influence of building services engineers is undergoing rapid change and is pivotal to achieving low carbon buildings However textbooks in the field have largely focused on the detailed technicalities of HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of energy efficiency imperatives together with a strategic approach to the key design issues impacting upon carbon performance in a concise manner The key conceptual design issues for planning the principal systems that influence energy efficiency are examined in detail In addition the following issues are addressed in turn Background issues for sustainability and the design process Developing a strategic approach to energy efficient design How to undertake load assessments System comparison and selection Space planning for services Post occupancy evaluation of completed building services In order to deliver sustainable buildings a new perspective is needed amongst building and services engineering designers from the outset of the conceptual design stage and throughout the whole design process In this book students and practitioners alike will find the ideal introduction to this new approach      **Compendium of Research Reports** ,1979

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