

FORM JT-100 • ABBRIDGED VERSION of MANUAL J, 8TH EDITION

Project		Design State & City Alabama		Mobile AP								
Indoor Design Heating db		72		Outdoor (Winter) 99% db				35				
Indoor Design Cooling db		75		Outdoor (Summer) 1% db				92				
Indoor Design Cooling RH		50%		Grains Difference				48				
Latitude		30		Elevation				218				
		Glass Direction		Construction Detail		Heating HTM		Cooling HTM	Net Area	Heating BTUH	Cooling BTUH	
6A	Windows & Glass Doors											
6B	Skylights											
7	Wood & Metal Doors	a										
		b										
		c										
8	Above Grade Walls	a										
		b										
		c										
		d										
Partition Walls		e										
		f										
		g										
9	Below Grade Walls	a										
		b										
10	Ceilings	a										
		b										
		c										
		d										
Partition Ceilings		e										
		f										
		g										
11	Passive Floors	a										
		b										
		c										
		Exposed Floors (Slab (Perimeter Ft.))		d								
		Basement Floor		e								
Partition Floors		f										
		g										
12	Infiltration	Envelope Leakage No. of Fireplaces	Average	Heated & Cooled Floor Area - Sq. Ft.		Above Grade - Cu. Ft.						
13	Internal Gains	Appliance - 1200 BTUH			Number of Bedrooms	3	Occupants	4			(VALUE)	
14	Sub Totals										(VALUE)	
15	Duct Loss & Gain	(F1-T1) SJA in Attic, IRA Riser in Floor to Ceiling Chassis, Perimeter Supply Outlets (R-Value = 6) (Leakage Class = 12/24) Installed Square Feet of Surface or Default = 1 Supply 1 Return 1										(VALUE)
16	Ventilation	Combustion Air From Conditioned Space ☐ Furnace ☐ Water Heater ☐ None 1										
17	Blower Heat Gain	Manufacturer's performance data has no blower heat discount										1707
20	Total Sensible Loss or Gain											(VALUE)
Enter Company Name Here Enter Company Address Here Enter Company City, State and Zip Code Here Enter Company Phone Numbers Here Enter Website or Email Address Here					21	Latent Infiltration load for cooling						
						Latent load for occupants				800		
						Latent load for plants						
						Latent load for duct in unconditioned space				455		
						Latent ventilation load for cooling						
					Total Latent Gain	1288						

Hvac Manual J Form

James E. Brumbaugh

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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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

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

Precision HVAC Sizing: The Consultant's Guide to Load Calculation and System Selection Charles Nehme, The efficiency longevity and ultimate performance of any built environment be it a skyscraper a hospital or a family home hinges critically on one fundamental engineering task the precise sizing of its Heating Ventilation and Air Conditioning HVAC system An HVAC system is not merely a collection of machines it is the building s respiratory and thermoregulatory center When correctly sized it provides an invisible blanket of comfort maintains optimal air quality and operates with a silent sustainable efficiency When improperly sized it becomes a source of wasted energy occupant discomfort and costly premature failure In my more than three decades as a global HVAC and MEP consultant I have witnessed firsthand the substantial economic and environmental penalties incurred when the art and science of sizing are neglected Oversized systems short cycle failing to dehumidify effectively and wasting energy while undersized systems run perpetually struggling to meet demand and burning out components long before their time This book is dedicated to demystifying the complex interplay of thermodynamics building science and climate data that governs the sizing process It is a practical guide that bridges the gap between theoretical load calculations and real world system selection drawing on international standards and practical field experience My goal is to equip designers engineers and students with the methodologies tools and critical thinking required to ensure every HVAC system they touch is perfectly matched to its application delivering the trifecta of comfort energy efficiency and reliable longevity Precision is not a luxury in HVAC design it is a necessity Let this guide be your essential companion on the path to mastering it

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