

# WHOLE-HOUSE HEAT LOSS & GAIN WORKSHEET

## PRELIMINARY ESTIMATE

Homeowner Name \_\_\_\_\_ Phone Number \_\_\_\_\_  
 Address \_\_\_\_\_ Zip \_\_\_\_\_

### DESIGN CONDITIONS

WINTER: Inside Design Temperature 75 minus Outside Design Temperature -24 - Heating Temperature Difference 99 (1)  
 SUMMER: Outside Design Temperature 82 minus Inside Design Temperature 75 - Cooling Temperature Difference 7

TABLE A - HEATING - WINDOWS & DOORS

Window Type		Factor	Area	BTUH Loss
Ext. Hung Casement Or sliding	Single Glass	15		
	Double Glass	9		
	Triple Glass	7		
Fixed	Single Glass	14		
	Double Glass	9		
	Triple Glass	6		
Basement or Jalousie w/interior		2.2		
Sliding Doors - Double Glass		2.8		
Other Doors w/interior		1.2		
TOTAL				

TABLE B - COOLING - WINDOWS & DOORS

Direction	Outdoor Design Temperature and BTUH/Square Foot												Area	BTUH Gain
	Single Glass				Double Glass				Triple Glass					
	80	85	90	95	80	85	90	95	80	85	90	95		
Not shaded	70	75	80	85	6	7	7	7	4	5	5	7		
NE S NW	35	40	45	55	30	35	35	40	25	25	30	30		
E S W	55	55	60	70	45	50	50	55	35	40	40	45		
SE S SW	45	50	55	60	40	40	45	45	30	30	35	40		
S	30	30	35	45	25	25	30	30	20	20	20	25		
Doors (Sliding glass doors treated same as windows)												6		
TOTAL														

CONSTRUCTION DATA		HEATING		COOLING	
DESCRIPTION	SQ. FT.	U Factor (3)	BTUH Loss	Cooling Factor (3)	BTUH Gain
Gross Walls					
Gross Walls					
Windows & Doors ( From Table A or B)					
Net Walls					
Net Walls					
Ceiling					
Floor					
People (Assume two per bedroom)				300	
Appliances (Kitchen Load)					1200
Sensible Total					
Design Temp. Diff. For Heating Latent Load Factor for Cooling			X (1)		X1.3
SUB TOTAL LOSS/GAIN					
DUCT LOSS/GAIN MULTIPLIER (2)			X1.15		X1.10
TOTALS		Heating		Cooling	

(1) Multiply heating design temperature difference by total of heat loss shown on Sensible Total line.

(2) Calculate only if duct is in unconditioned space. Assume minimum 2" flexible or 1" rigid insulation.  
 SEE ACCA Manual J Tables 3 & 6 for other multipliers.

(3) Use factors from Table C on back. Additional factors can be obtained from ACCA Manual J.

\*This worksheet is not recommended for a room-by-room calculation, which is necessary for proper duct design.

# Whole House Heat Loss Gain Worksheet

**N Noddings**



## **Whole House Heat Loss Gain Worksheet:**

**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

**The Passive Solar House** James Kachadorian, 2006-07-31 Revised and Expanded Edition Includes CD ROM with Custom Design Software For the past ten years The Passive Solar House has offered proven techniques for building homes that heat and cool themselves using readily available materials and methods familiar to all building contractors and many do it yourself homeowners True to this innovative straightforward approach the new edition of this best selling guide includes CSOL passive solar design software making it easier than ever to heat your home with the power of the sun Since The Passive Solar House was first published passive solar construction expert James Kachadorian has perfected user friendly Windows compatible software to supplement the design process explained in the book by allowing homeowners designers to enter the specifications of their design and see how changing a variable will affect its energy efficiency This is the building book for a world of climbing energy costs Applicable to diverse regions climates budgets and styles of architecture Kachadorian s techniques translate the essentials of timeless solar design into practical wisdom for today s solar builders Profiles of successful passive solar design construction and retrofit projects from readers of the first edition provide inspiration to first time homebuilders and renovators alike

**Home Energy Savers' Workbook** United States. Federal Energy Administration, 1977

*Sun, Wind, and Light: Architectural Design Strategies* Mark DeKay, G. Z. Brown, 2014-02-03 An updated guide to designing buildings that heat with the sun cool with the wind and light with the sky This fully updated Third Edition covers principles of designing buildings that use the sun for heating wind for cooling and daylight for natural lighting Using hundreds of illustrations this book offers practical strategies that give the designer the tools they need to make energy efficient buildings Hundreds of illustrations and practical strategies give the designer the tools they need to make energy efficient buildings Organized to quickly guide the designer in making buildings respond to the sun wind and light

**Warm Air Heating & Air Conditioning Library** National Warm-Air Heating and Air Conditioning Association (U.S.), 1961

*Hearings, Reports and Prints of the House Committee on Banking, Currency, and Housing* United States. Congress. House. Committee on Banking, Currency, and Housing, 1977

**Solar heating and cooling of residential buildings** Colorado State University. Solar Energy Applications Laboratory, 1977

J.K. Lasser's New Tax Law Simplified 2011 Barbara Weltman, 2010-11-02 Straightforward explanations of the new tax laws Things have changed radically in the world of housing education employment health care and other areas where a firm understanding of

taxes can benefit you financially While these changes can and will have a dramatic effect on taxpayers all is not lost J K Lasser provides the tips and tools needed to gain a better grip of what is going on to help you save money on your 2010 return and to plan ahead for future tax savings Written by the recognized authority in taxes J K Lasser s New Tax Law Simplified 2011 transforms the complex new tax laws into simple English that any taxpayer can understand Filled with up to the minute facts and figures this book makes it easier for you to learn about and profit from the laws that govern your taxes The book also looks ahead to changes for 2011 that can affect tax planning now Outlines various tax relief strategies Filled with numerous examples and tables Helps you understand and utilize the new tax programs and regulations that have been passed Other titles by Weltman J K Lasser s Small Business Taxes 2011 and J K Lasser s 1001 Deductions Tax Breaks 2011 While you may be concerned with the current state of the economic and financial world this can be a time of great opportunity if you take advantage of the guidance found in J K Lasser s New Tax Laws Simplified 2011     Solar Energy and Housing Design: Principles, objectives, guidelines Simos Yannas,1994     **HUD Minimum Property Standards: Solar heating and domestic hot water systems** Center for Faith-Based and Community Initiatives (United States. Department of Labor),1973     **Gas Appliance Merchandising** ,1956     **The National Energy Act** United States. Congress. House. Committee on Banking, Finance, and Urban Affairs. Subcommittee on Housing and Community Development,1977

*Environmental Control Systems* Fuller Moore,1993 A text reference for architects and architectural engineering students taking a course on energy methods this work places emphasis on the impact of heating cooling and lighting on site of building design and features a variety of case studies as illustration     Residential Rental Property (including Rental of Vacation Homes) ,1999     **The Solar House** Daniel D. Chiras,2002 While heat from sunlight and ventilation from breezes is free for the taking few modern architects or builders really understand the principles involved Yet natural conditioning Heating and cooling with passive solar techniques is a viable alternative to fossil fuels Acknowledging the good intentions of misguided solar designers in the past the author highlights certain egregious errors and shows how to avoid them The author shows how to select a cost effective energy efficient and environmentally friendly backup heating system how to preserve indoor air quality in an airtight energy efficient home and ways of employing green building materials in a naturally conditioned home     *Reproducible Copies of Federal Tax Forms and Instructions* United States. Internal Revenue Service,2009     Reproductive Copies of Federal Tax Forms and Instructions, Supplement, Revised 2009 for 2008 Tax Returns ,     *Modern Refrigeration and Air Conditioning* Andrew Daniel Althouse,Carl Harold Turnquist,Alfred F. Bracciano,1992 Organized to follow the textbook on a chapter by chapter basis providing questions to help the student review the material presented in the chapter This supplement is a consumable resource designed with perforated pages so that a given chapter can be removed and turned in for grading or checking     **Intermediate Minimum Property Standards for Solar Heating and Domestic Hot Water Systems** United States. Department of Housing and Urban

Development,1977

LP-gas Merchandising ,1956

This book delves into Whole House Heat Loss Gain Worksheet. Whole House Heat Loss Gain Worksheet is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Whole House Heat Loss Gain Worksheet, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 3: Whole House Heat Loss Gain Worksheet in Everyday Life
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Whole House Heat Loss Gain Worksheet.

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mort sur le nil death on the nile est un film britannique réalisé par john guillermín et sorti en 1978 dans cette adaptation du roman du même nom d agatha christie publié en 1937 le détective belge hercule poirot résout une intrigue policière lors d une croisière en Égypte

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sep 29 1978 death on the nile directed by john guillermín with peter ustinov jane birkin lois chiles bette davis as hercule poirot enjoys a luxurious cruise down the nile a newlywed heiress is found murdered on board can poirot identify the

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au cours d une luxueuse croisière sur le nil hercule poirot voit ses vacances en Égypte se transformer en chasse au meurtrier lorsqu une idyllique lune de miel est brutalement interrompue par une série de morts violentes sur fond de paysages grandioses mais dans une atmosphère inquiétante empreinte de dangers cette sombre affaire d

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un soir hercule poirot dîne dans un restaurant londonien sa table jouxte celle d un jeune couple apparemment très épris jackie de bellefort et simon doyle quelques semaines plus tard à l occasion d une croisière sur le nil le grand détective a la surprise de retrouver simon doyle marié à linett ridgeway

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