

Name of Project:INDIRA GANDHI INSTITUTE						Job ref./ Enquiry No.:					
Address:GOPEGAON						Estimated by:GDK		Heat load for:Summer			
Space used for:SEMINAR HALL No 1						Peak load at:4.00 PM					
Area in sq.ft.=935		Length in Ft.		Height in ft.=22.0		DESIGN CONDITIONS					
Volume in cu.ft.20570		Width in Ft.		Contact factor:0.85		(British Units)	DBT	% RH	WBT	Gr/Db	
Bypass factor:0.12				Btu/hour		Outside	95	60	83	15.1	
Area x Temp.d Factor		Sensible Load		Latent Load		Inside	73	55	62	69	
						Difference	22	xxxx	xxxx	82	
SOLAR GAIN-GLASS						Eq. Temp.correction factor1.0					
Glass (N)		0	11	0.56	0	OUTDOOR AIR (CFM)					
Glass (E)		38	11	0.56	231						
Glass (S)		0	11	0.56	0	90	People x	5.623333333	CFM/Person =	506.1	
Glass (W)		0	165	0.56	0	1	No. of air changes/hr	=	342.833		
Glass (NE)		0	11	0.56	0	Selected Outdoor Air CFM =506.1					
Glass (SW)		0	3	0.56	0						
Glass (NW)		0	8	0.56	0	EFFECTIVE TEMPERATURE POINT					
Glass (SE)		0	11	0.56	0						
SOLAR & TRANSMISSION GAIN-WALLS & ROOF						Effective Sens. Heat Factor (ESHF) = ERSWERTH =0.77					
Wall (N)		585.2	1	0.35	2067	SELECT ADP=		55			
Wall (E)		139.5	3	0.35	508						
Wall (S)		0	11	0.35	0	DEHUMIDIFIED AIR QUANTITY					
Wall (W)		0	22	0.35	0						
Wall (NE)		0	20	0.35	0						
Wall (SW)		0	24	0.35	0	Dehum. Rate = Contact Factor x (Rin Temp. - ADP)=		15.8			
Wall (NW)		0	16	0.35	0	Dehum. CFM = ERSW/1.08/Dehum. Rate =		4763			
Wall (SE)		0	28	0.35	0	Dehum CFM /460 =		11.28			
Exposed Roof		935	45	0.48	20195	U-factors:		Roof Inal0.12			
TRANSMISSION GAIN-EXCEPT WALLS & ROOF						Exposed Walls0.35		Roof Non Inal0.48			
All Glass		38	22	1.13	932	Partition Walls0.49		Ceiling0.48			
Partition Wall		0	17	0.40	0	Partition Glass0.43		Floor0.48			
Partition Glass		0	17	0.43	0	Factors for Glass:		Solar gain0.58			
Ceiling		0	17	0.48	0			Transm. Gain1.13			
Floor		0	17	0.48	0	Some typical inside design conditions:					
INTERNAL HEAT						PEOPLE	DBT	% RH	WBT	Gr/Db	
People		90	276	224	24540		20160	70	50	58.5	54.8
Lights (I) - W		1070	3.41	1.0	6377		-	70	55	59.7	60.1
Lights (F) - W		0	3.41	1.25	0		-	72	50	60.1	58.8
Equip.Load -W		750	3.41	1.0	2558		-	72	55	61.4	64.4
Also in HP		0	2545	1.0	0		-	74	50	61.8	62.0

Manual J Heat Load Calculation Sheet

**National Environmental Systems
Contractors Association**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

Manual J Heat Load Calculation Sheet:

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Efficiency Standards for Residential & Nonresidential Buildings DIANE Publishing Company,1995-07 *Energy*
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Table of Contents Manual J Heat Load Calculation Sheet

1. Understanding the eBook Manual J Heat Load Calculation Sheet
 - The Rise of Digital Reading Manual J Heat Load Calculation Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual J Heat Load Calculation Sheet
 - 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 Manual J Heat Load Calculation Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual J Heat Load Calculation Sheet
 - Personalized Recommendations
 - Manual J Heat Load Calculation Sheet User Reviews and Ratings
 - Manual J Heat Load Calculation Sheet and Bestseller Lists
5. Accessing Manual J Heat Load Calculation Sheet Free and Paid eBooks

- Manual J Heat Load Calculation Sheet Public Domain eBooks
- Manual J Heat Load Calculation Sheet eBook Subscription Services
- Manual J Heat Load Calculation Sheet Budget-Friendly Options
- 6. Navigating Manual J Heat Load Calculation Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Manual J Heat Load Calculation Sheet Compatibility with Devices
 - Manual J Heat Load Calculation Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual J Heat Load Calculation Sheet
 - Highlighting and Note-Taking Manual J Heat Load Calculation Sheet
 - Interactive Elements Manual J Heat Load Calculation Sheet
- 8. Staying Engaged with Manual J Heat Load Calculation Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual J Heat Load Calculation Sheet
- 9. Balancing eBooks and Physical Books Manual J Heat Load Calculation Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual J Heat Load Calculation Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Manual J Heat Load Calculation Sheet
 - Setting Reading Goals Manual J Heat Load Calculation Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual J Heat Load Calculation Sheet
 - Fact-Checking eBook Content of Manual J Heat Load Calculation Sheet
 - 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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