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HVAC WORKSHEET FOR WATT-WISE LIVING

DESIGN TEMPERATURE DIFFERENCE				
30°	35°	40°	45°	50°

WINDOWS & GLASS DOORS	AREA SQUARE FEET	HEATING MULTIPLIER (CIRCLE ONE)					HEATING (BTUH LOSS)
		30	35	40	45	50	
Glass Doors, Infiltration less than 1.0 CFM/FT							
Single Glass		50	60	70	75	85	
Double Glass		40	45	50	55	60	
Other Sliding Glass Doors							
Single Glass		75	85	100	115	125	
Double Glass		60	70	80	90	100	
Windows, Infiltration less than 0.50 CFM/FT							
Single Glass	180	40	50	55	60	70	9900
Double Glass		25	30	35	40	45	
Windows, Infiltration less than 0.75 CFM/FT							
Single Glass		45	50	60	65	75	
Double Glass		30	35	40	45	50	
Other Windows							
Single Glass		75	90	105	115	130	
Double Glass		60	70	80	90	105	
Fixed or Picture Windows							
Single Glass		40	50	55	60	70	
Double Glass		25	30	35	40	45	
Other							
Total BTUH Loss (Enter on Line 2, Page 2)	180						9900

[illegible]

521 231 7497

Prepared By:

Harry Mordley

TOTAL HEATING AND COOLING REQUIREMENTS

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For:

Name:

Bruce Hart

Address:

126 SW Colonial

City:

Lake City

(✓) Check Constr. Type	ITEM	AREA SQUARE FEET	DESIGN TEMPERATURE DIFFERENCE					DESIGN TEMP		HEATING (BTUH LOSS)	COOLING MULT. (CIRCLE)	COOLING (BTUH GAIN)
			30°	35°	40°	45°	50°	90°	95°			
	Gross Wall Area	1350										
	Glass Area (From page 1)	180										
	Partitions, Frame									9900		5100
	Finished 1 side, No Insulation		17	19	22	25	28				6.5	10.0
	Finished 2 sides, No Insulation		9	11	12	14	16				4.5	6.0
	Finished 2 sides, R-5		4	5	5.5	6	7				2.5	3.5
	Finished 2 sides, R-11		2	3	3	4	4				2.0	2.5
	Other											
	Doors (Excluding glass)											
	No weatherstripping		135	160	180	200	225				10.0	13.0
	Weatherstripped	36	70	85	95	110	120			3420	10.0	13.0
	R-5 Insulation, No weatherstripping		123	144	164	185	205				4.3	5.5
	R-5 Insulation, weatherstripping		68	79	90	101	113				4.0	5.0
	Other											
	Net Exterior Walls											
	CBS Furred, No Insulation		9	10	12	13	14				4.5	6.0
	CBS Furred, R-3 Insulation		5	6	7	8	8				3.0	4.2
	CBS Furred, R-4 Insulation		4	5	6	6	7				2.7	3.8
	CBS Furred, R-5 Insulation		4	5	5	6	6				2.5	3.5
	Frame, No Insulation		8	9	10	11	13				5.5	7.0
	Frame, R-11 Insulation	1134	2	2	3	3	4			3402	2.5	3.0
	Frame, R-14 Insulation		1.5	1.7	2	2.5	3				2	2.8
	Other											
	Ceiling under attic											
	No Insulation	Roof	18	21	24	27	30				9	7
	R-11 Insulation	DK LT	2.4	2.8	3.2	3.5	3.9				2.5	2
	R-19 Insulation	DK LT	1.5	1.7	1.9	2.2	2.4				1.5	1.5
	R-22 Insulation	DK LT	1.2	1.5	1.7	1.9	2.1				1.5	1.0
	R-26 Insulation	DK LT	1.1	1.3	1.4	1.6	1.8				1.3	1
	R-30 Insulation	DK LT	1	1.1	1.3	1.4	1.6				1.1	.9
	Other											
	Floor, Concrete Slab											
	No Edge Insulation	Perimeter Ft.	35	40	40	45	45				0	0
	Other											
	Subtotal									18689		
	People @ 300 & Appl. @ 1200											
	Sensible BTUH Gain											10933
	Duct BTUH Loss & Gain											0000
	2 In. Flex. or 1 In. Rigid											17533
	1 1/2 In. Rigid											1754
	Total BTUH Loss											
	Subtotal BTUH Gain											
	x 1.3 = Total BTUH Gain											14257
												25073

Calculated Heating Requirements

20549

BTUH
BTUH

Calculated Cooling Requirements

25073

BTUH
BTUH

Size of Unit Chosen

Size of Unit Chosen

% Oversized

% Oversized

% Undersized

% Undersized