

Customer's Name Mr & Mrs. Smith Address 1234 Wheeling St.
 City Aurora State CO Zip 80011 Telephone # 999-999-9999

Winter: Inside Design Temp 70 Outside Design Temp 0
 Summer: Outside Design Temp 95 Inside Design Temp 75

Heating Temp Difference 70
 Cooling Temp Difference 20

Heating		Common Data Section			Cooling		
BTU Loss	Heating Factor	Subject			Sq. Ft.	Cooling Factor	BTUH Gain
	From	Gross Wall			1120	From	
972.72	Table E	Doors & Windows (Table A or B)			170	Table E	5243.3
855	0.9	Net Wall			950	2.1	1995
575.58	0.53	Ceiling			1086	2.3	2497.8
291.6	8.1	Floors			36	0	0
Infiltration	Heating	10x 1.1/60	Volume	Volume	1.1/60	Cooling	Infiltration
Btu/hr	Table D		(Cu. Ft.)	(Cu. Ft.)	x ^T	Table D	Btu/hr
1592.771	1	0.18333	8688	8688	0.3666	0.5	1592.5104
4287.671		Sub-Total Btuh Loss (per 10 F)					
7		Adjustment Factor (Table C)					
30013.7		Total Btuh Loss					
		People *300 Btuh (2 per bedroom)				6	1800
		Appliances Btuh					1200
		Sub-Total Btuh Gain					14328.6104
1.1		Duct Loss/Gain Factor (Table F)					1.1
		Sub-Total Btuh (Sensible Gain)					15761.47144
		Mosture Removal					1.3
1.12		Btuh Factor for Colorado					
36976.88		TOTAL BTUH LOSS/GAIN					20489.91287
	90% Furn	39,760			A/C Tonnage	1.71	
	80% Furn	46,221					

Window

Type: TIM Double

Heating Table

Windows & Door Types	C	D	E	F	Btuh Loss
	Wood	TIM	Metal	Area	
Single Pane Clear	9.9	10.45	11.55		0
- with storm	4.75	5.25	6.5		0
Double Pane Clear	5.51	6.09	7.25	128	779.52
- with storm	3.41	3.85	4.9		0
Triple Pane Clear	3.8	4.39	5.46		0
Jalousie Single	-	-	11		0
- single w/ storm	-	-	5		0
Skylights Single	11.07	11.68	12.32		0

- double	6.65	7.35	8.75		0
Door - Wood	4.6	-	-	42	193.2
- w/ storm	3.2	-	-		0
Urethane Core (R-5)	-	-	1.9		0
- w/ storm	-	-	1.7		0
Totals				170	972.72

Cooling Table

Direction	B	C	D	E	
	Single Glass	Double Gl.	Triple Gl.	Area	Btu Gain
	Temp Diff	Temp Diff	Temp Diff		
	15/20/25	15/20/25	15/20/25		
N	22	16	12	21	336
NE&NW	41	33	27		0
E&W	56	46	39	84.5	3887
SE&SW	49	41	34		0
S	32	25	20	22.5	562.5
Skylights	168	143	-		0
Wood	10.9	10.9	10.9	42	457.8
Urethane	4.5	4.5	4.5		0
				170	5243.3

Winter Changes Per Hour

Floor Area	900 or less	900-1500	1500-2100	2100 +
Best	0.4	0.4	0.3	0.3
Average	1.2	1	0.8	0.7
Poor	2.2	1.6	1.2	1
For each fireplace add:		Best 0.1	Average 0.2	Poor 0.6

Summer Changes Per Hour

Floor Area	900 or less	900-1500	1500-2100	2100 +
Best	0.2	0.2	0.2	0.3
Average	0.5	0.5	0.4	0.4
Poor	0.8	0.7	0.6	0.5