Accu-Size Heating & Cooling Home Analysis

Cooling load (heat gain) - 95 degree day		Heating load (heat loss) - 0 degree day		
SQUARE FOOTAGE OF WINDOWS	HEAT GAIN	SQUARE FOOTAGE OF WINDOWS		HEAT LOSS
North (single) X 26 =		Single glass	$_{\rm X}97 =$	
	693	Double glass 104	$_{\rm X}69 =$	7176
NE & NW (single) X 45 =	w	SQUARE FOOTAGE OF DOORS		HEAT LOSS
NE & NW (double) X 35 =		Single glass patio		
East & West (single) X 60 =		Double glass patio		
East & West (double) 3 X 49 =	1519	Wood (no storm door) 30		2250
SE & SW (single) X 50 =		Wood (w/storm door)		.,
SE & SW (double) X 40 =		Insulated metal door		
South (single) X 36 =		SQUARE POOTAGE OF NET WALLS		HEAT LOSS
South (double) $\underline{\hspace{1cm}}$ X 25 =	1000	Frame (no insulation)		HEAT LOS
SQUARE POOTAGE OF DOORS	HEAT GAIN	Frame (3.5" insulation) 1408		9856
Wood (no storm door) 30 X 13 =	390	Frame (6" insulation)		
Wood (w/storm door) $X9 =$		Masonry (no insulation)		
Insulated metal door X 6 =		Masonry (1" insulation)		• •.
SQUARE FOOTAGE OF NET WALLS	HEAT GAIN	SQUARE FOOTAGE OF CEILING		HEAT LOSS
Wall perimeter 168 X 9 height 1512 less	,	No insulation		******
104 glass and door area = net wall 1408		R-11 (3" insulation)		
No insulation X 8 =		R-19 (6" insulation) 1332		5328
R-13 (3.5" insulation) 1408 X 3 =	4224	R-30 (10" insulation)		
R-19 (6" insulation) X 2 =		the second second second		THE UNIT ORG
SQUARE POOTAGE OF CEILING	HEAT GAIN	SQUARE FOOTAGE OF FLOOR OVE	NO SOURCE DE LA CONTRACTION DE	HEAT LOSS
No insulation X 22 =		No insulation		
R-11 (3" insulation) X 4.1 =		Carpet (no insulation)		7992
	3462			
R-30 (10" insulation) X 1.6 =		SQUARE FOOTAGE OF FLOOR OVE	The contract of the contract o	HEAT LOSS
SQUARE POOTAGE OF FLOOR	HEAT GAIN	No insulation		
No insulation X3 =		Carpet or insulation	_ X 1 =	
Carpet (no insulation) X2 =		PERIMETER OF SLAB FLOOR		HEAT LOSS
R-11 (3"+ insulation) 1332 X1 =	1332	Slab (no insulation)	_ X 57 =	
Floor on slab X 0 =	0	Slab (edge insulation)	_ X 22 =	
INFILTRATION / VENTILATION	HEAT GAIN	INFILTRATION / VENTILATION		HEAT LOSS
Home square feet 1332 $\times 3.5 =$	4662	Home square feet 1332	_ X 4.9 =	6527
INTERNAL GAINS	HEAT GAIN	Subtotal BTU/h heat loss	=	39129
Number of people 3 X 530 =	1590	LOSSES FROM DUCTWORK		HEATLOSS
Kitchen & bath allowance	1250	In crawl space - (subtotal BTU/h X		3913
Subtotal BTU/h heat gain =	20,122	In attic - (subtotal BTU/h X .08)		3130
	HEAT GAIN	Total BTU/h heat loss	=	46172
GAINS FROM DUCTWORK In crawl space - (subtotal BTU/h X .09)	HEAT GAIN	80% furnace efficiency loss	X.25 =	11543
In attic - (subtotal BTU/h X .13)	2616	90% furnace efficiency loss	X.12 =	
				5771
Total BTU/h heat gain =	15,549	Total BTU/h input needed	=	57,715

