

Accu-Size Heating & Cooling Home Analysis

Cooling load (heat gain) - 95 degree day

SQUARE FOOTAGE OF WINDOWS	HEAT GAIN
North (single) _____ X 26 =	_____
North (double) _____ X 21 =	_____
NE & NW (single) _____ X 45 =	_____
NE & NW (double) _____ X 35 =	_____
East & West (single) _____ X 60 =	_____
East & West (double) _____ X 49 =	_____
SE & SW (single) _____ X 50 =	_____
SE & SW (double) _____ X 40 =	_____
South (single) _____ X 36 =	_____
South (double) _____ X 25 =	_____

SQUARE FOOTAGE OF DOORS	HEAT GAIN
Wood (no storm door) _____ X 13 =	_____
Wood (w/storm door) _____ X 9 =	_____
Insulated metal door _____ X 6 =	_____

SQUARE FOOTAGE OF NET WALLS	HEAT GAIN
Wall perimeter _____ X _____ height _____ less _____ glass and door area = net wall _____	
No insulation _____ X 8 =	_____
R-13 (3.5" insulation) _____ X 3 =	_____
R-19 (6" insulation) _____ X 2 =	_____

SQUARE FOOTAGE OF CEILING	HEAT GAIN
No insulation _____ X 22 =	_____
R-11 (3" insulation) _____ X 4.1 =	_____
R-19 (6" insulation) _____ X 2.6 =	_____
R-30 (10" insulation) _____ X 1.6 =	_____

SQUARE FOOTAGE OF FLOOR	HEAT GAIN
No insulation _____ X 3 =	_____
Carpet (no insulation) _____ X 2 =	_____
R-11 (3"+ insulation) _____ X 1 =	_____
Floor on slab _____ X 0 =	0

INFILTRATION / VENTILATION	HEAT GAIN
Home square feet _____ X 3.5 =	_____

INTERNAL GAINS	HEAT GAIN
Number of people _____ X 530 =	_____
Kitchen & bath allowance _____	1250

Subtotal BTU/h heat gain = _____

GAINS FROM DUCTWORK	HEAT GAIN
In crawl space - (subtotal BTU/h X .09)	_____
In attic - (subtotal BTU/h X .13)	_____

Total BTU/h heat gain = _____

Heating load (heat loss) - 0 degree day

SQUARE FOOTAGE OF WINDOWS	HEAT LOSS
Single glass _____ X 97 =	_____
Double glass _____ X 69 =	_____

SQUARE FOOTAGE OF DOORS	HEAT LOSS
Single glass patio _____ X 99 =	_____
Double glass patio _____ X 72 =	_____
Wood (no storm door) _____ X 75 =	_____
Wood (w/storm door) _____ X 46 =	_____
Insulated metal door _____ X 35 =	_____

SQUARE FOOTAGE OF NET WALLS	HEAT LOSS
Frame (no insulation) _____ X 20 =	_____
Frame (3.5" insulation) _____ X 7 =	_____
Frame (6" insulation) _____ X 5 =	_____
Masonry (no insulation) _____ X 37 =	_____
Masonry (1" insulation) _____ X 11 =	_____

SQUARE FOOTAGE OF CEILING	HEAT LOSS
No insulation _____ X 25 =	_____
R-11 (3" insulation) _____ X 7 =	_____
R-19 (6" insulation) _____ X 4 =	_____
R-30 (10" insulation) _____ X 3 =	_____

SQUARE FOOTAGE OF FLOOR OVER CRAWL AREA	HEAT LOSS
No insulation _____ X 19 =	_____
Carpet (no insulation) _____ X 9 =	_____
R-11 (3"+ insulation) _____ X 6 =	_____

SQUARE FOOTAGE OF FLOOR OVER BASEMENT	HEAT LOSS
No insulation _____ X 2 =	_____
Carpet or insulation _____ X 1 =	_____

PERIMETER OF SLAB FLOOR	HEAT LOSS
Slab (no insulation) _____ X 57 =	_____
Slab (edge insulation) _____ X 22 =	_____

INFILTRATION / VENTILATION	HEAT LOSS
Home square feet _____ X 4.9 =	_____

Subtotal BTU/h heat loss = _____

LOSSES FROM DUCTWORK	HEAT LOSS
In crawl space - (subtotal BTU/h X .10)	_____
In attic - (subtotal BTU/h X .08)	_____

Total BTU/h heat loss = _____

80% furnace efficiency loss X .25 =	_____
90% furnace efficiency loss X .12 =	_____

Total BTU/h input needed = _____