

Accu-Size Heating & Cooling Home Analysis

Cooling Load (Heat Gain) - 95 Degree Day

ft ² of Windows	Heat Gain
North (single) _____ x 26 = _____	
North (double) _____ x 21 = _____	
NE & NW (single) _____ x 45 = _____	
NE & NW (double) _____ x 35 = _____	
E & W (single) _____ x 60 = _____	
E & W (double) _____ x 49 = _____	
SE & SW (single) _____ x 50 = _____	
SE & SW (double) _____ x 40 = _____	
South (single) _____ x 36 = _____	
South (double) _____ x 25 = _____	

ft ² of Doors	Heat Gain
Wood (no storm door) _____ x 13 = _____	
Wood (w/storm door) _____ x 9 = _____	
Insulated Metal Door _____ x 6 = _____	

ft ² of Net Walls	Heat Gain
Wall perimeter _____ x _____ Wall Height _____ less _____ glass & door area = net wall area _____ ft ²	
No insulation _____ x 8 = _____	
R-13 (3 1/2") Insulation _____ x 3 = _____	
R-19 (6" Insulation) _____ x 2 = _____	

ft ² 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 = _____	

ft ² 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 ft ² _____ x 3.5 = _____	

Internal Gains	Heat Gain
Number of People _____ x 530 = _____	
Kitchen & Bath Allowance _____ 1250	
Subtotal BTU/h heat gain = _____	

Gains from Duct Work	Heat Gain
In crawl space - (subtotal BTU/h x .09) = _____	
In attic - (subtotal BTU/h x .13) = _____	
Total BTU/h heat gain = _____	

Heat Load (Heat Loss) - 0 Degree Day

ft ² of Windows	Heat Loss
Single Glass _____ x 97 = _____	
Double Glass _____ x 69 = _____	

ft ² 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 = _____	

ft ² of Net Walls	Heat Loss
Frame (no insulation) _____ x 20 = _____	
Frame (3 1/2" insulation) _____ x 7 = _____	
Frame (6" insulation) _____ x 5 = _____	
Masonry (no insulation) _____ x 37 = _____	
Masonry (1" insulation) _____ x 11 = _____	

ft ² 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 = _____	

ft ² of Floor Over Crawl Space	Heat Loss
No insulation _____ x 19 = _____	
Carpet no Insulation _____ x 9 = _____	
R-11 (3+ " Insulation) _____ x 6 = _____	

ft ² 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 ft ² _____ 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 0.25 = _____
90% Furnace Efficiency Loss X 0.12 = _____
Total BTU/h Heat input needed = _____

