# 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 / Ventalation | | | Heat Gain |
|---|---|---|---|
| Home $ft^2$_____ | x 3.5 | = | _____ |

| Internal Gains | | | Heat Gain |
|---|---|---|---|
| Number of People_____ | x530 | = | _____ |
| Kitchen & Bath Allowance | | | ___1250_ |
| Subtotal BTU/h heat gain | | = | _____ |

| Gains from Duct Work | | | Heat Gain |
|---|---|---|---|
| In crawl space - (subtotal BTU/h x .09) | | = | _____ |
| In atttic - (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 | = | _____ |

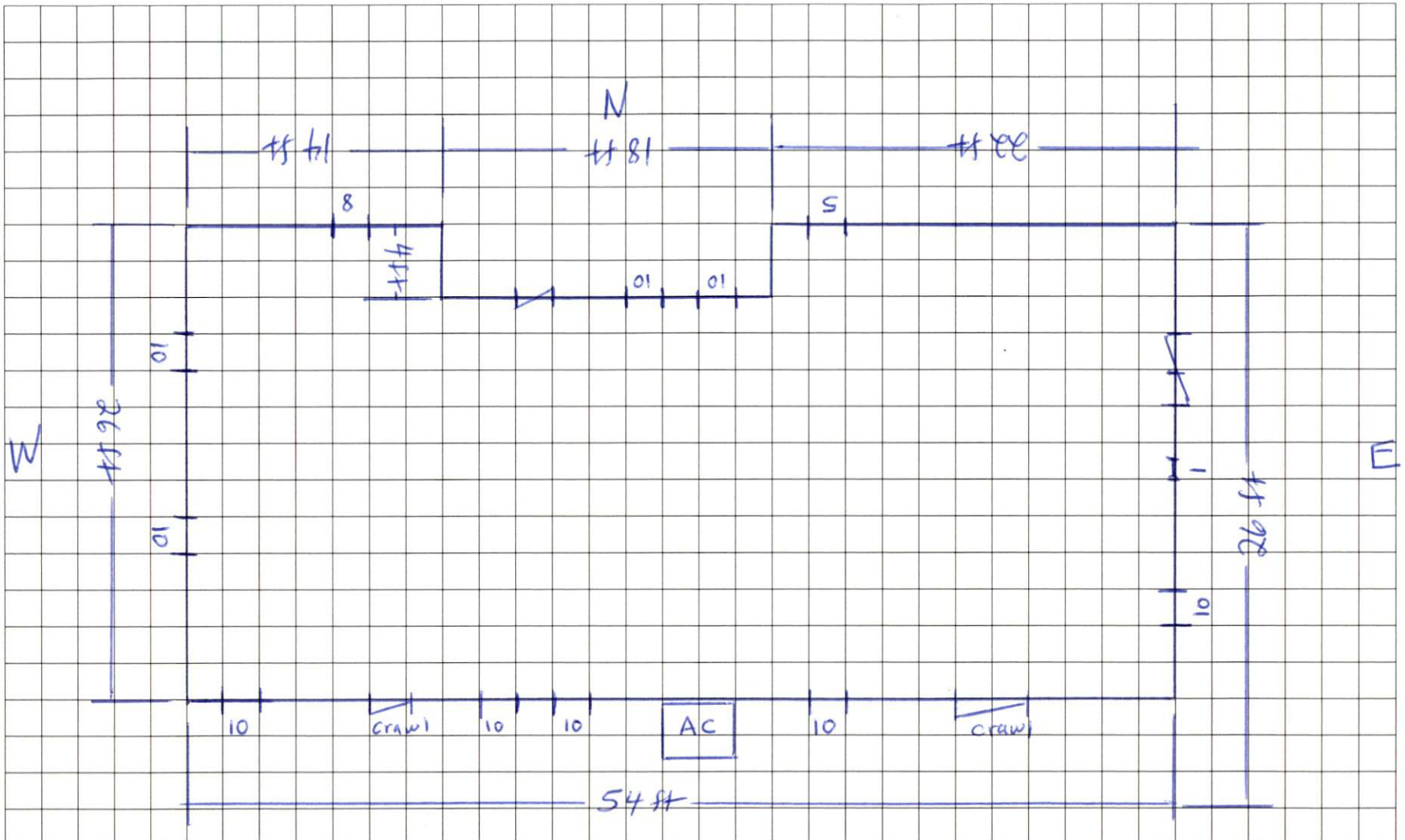
| $ft^2$ of Floor Over Crawl Space | | | Heat Loss |
|---|---|---|---|
| No insulation_____ | x 19 | = | _____ |
| Carpet no Insulation_____ | x 9 | = | _____ |
| R-11 (3+" Insulation)_____ | x 6 | = | _____ |

| $ft^2$ 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 atttic - (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 | | = | _____ |




Windows - DBL GLASS
DOOR - WOOD (No Storm Door) 30 ft²
Walls - R-13 (3.5" insulation)
Ceiling - R-19 (6" insulation)
Floor - R-11 (3" + insulation)

2 Bedrooms ASHRAE 1st Bedroom - 2 people

2nd
3rd