

# Residential System Sizing Calculation

## Summary

Project Title:  
IC Construction - Star Lake Spec

, FL

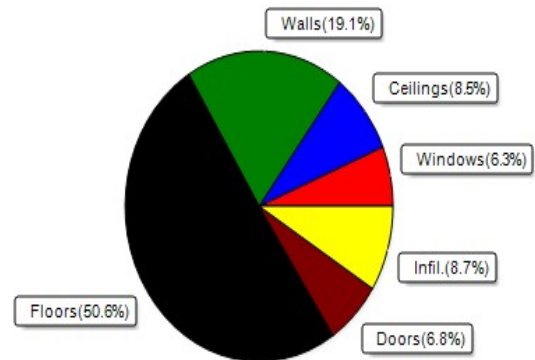
7/18/2024

|                                                                                                       |              |             |                                       |              |              |
|-------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------|--------------|--------------|
| Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(100 ft.) Temp Range(M) |              |             |                                       |              |              |
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)                    |              |             |                                       |              |              |
| Winter design temperature(TMY3 99%)                                                                   | 30           | F           | Summer design temperature(TMY3 99%)   | 94           | F            |
| Winter setpoint                                                                                       | 70           | F           | Summer setpoint                       | 75           | F            |
| Winter temperature difference                                                                         | 40           | F           | Summer temperature difference         | 19           | F            |
| <b>Total heating load calculation</b>                                                                 | <b>39010</b> | <b>Btuh</b> | <b>Total cooling load calculation</b> | <b>27215</b> | <b>Btuh</b>  |
| Submitted heating capacity                                                                            | % of calc    | Btuh        | Submitted cooling capacity            | % of calc    | Btuh         |
| Total (Electric Heat Pump)                                                                            | 123.0        | 48000       | Sensible (SHR = 0.75)                 | 155.2        | 36000        |
| Heat Pump + Auxiliary(0.0kW)                                                                          | 123.0        | 48000       | Latent                                | 299.1        | 12000        |
|                                                                                                       |              |             | <b>Total (Electric Heat Pump)</b>     | <b>176.4</b> | <b>48000</b> |

## WINTER CALCULATIONS

Winter Heating Load (for 3026 sqft)

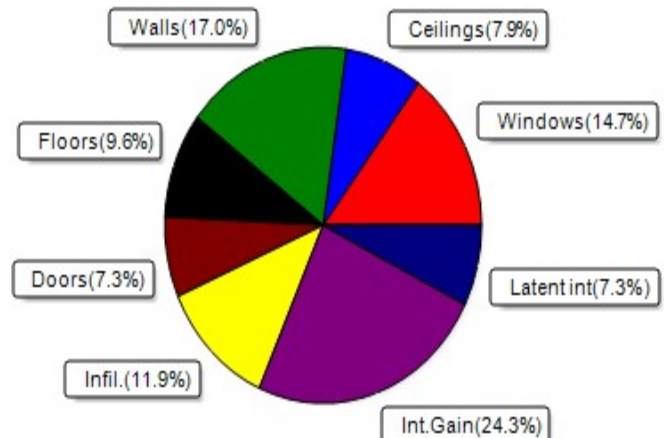
| Load component                  | Load              |
|---------------------------------|-------------------|
| Window total 235 sqft           | 2444 Btuh         |
| Wall total 2102 sqft            | 7462 Btuh         |
| Door total 144 sqft             | 2650 Btuh         |
| Ceiling total 3026 sqft         | 3316 Btuh         |
| Floor total See detail report   | 19734 Btuh        |
| Infiltration 78 cfm             | 3404 Btuh         |
| Duct loss                       | 0 Btuh            |
| <b>Subtotal</b>                 | <b>39010 Btuh</b> |
| Ventilation Ex:0 cfm; Sup:0 cfm | 0 Btuh            |
| <b>TOTAL HEAT LOSS</b>          | <b>39010 Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 3026 sqft)

| Load component                        | Load              |
|---------------------------------------|-------------------|
| Window total 235 sqft                 | 4011 Btuh         |
| Wall total 2102 sqft                  | 4624 Btuh         |
| Door total 144 sqft                   | 1987 Btuh         |
| Ceiling total 3026 sqft               | 2156 Btuh         |
| Floor total                           | 2612 Btuh         |
| Infiltration 58 cfm                   | 1213 Btuh         |
| Internal gain                         | 6600 Btuh         |
| Duct gain                             | 0 Btuh            |
| Sens. Ventilation Ex:0 cfm; Sup:0 cfm | 0 Btuh            |
| Blower Load                           | 0 Btuh            |
| <b>Total sensible gain</b>            | <b>23202 Btuh</b> |
| Latent gain(ducts)                    | 0 Btuh            |
| Latent gain(infiltration)             | 2012 Btuh         |
| Latent gain(ventilation)              | 0 Btuh            |
| Latent gain(internal/occupants/other) | 2000 Btuh         |
| <b>Total latent gain</b>              | <b>4012 Btuh</b>  |
| <b>TOTAL HEAT GAIN</b>                | <b>27215 Btuh</b> |



8th Edition

EnergyGauge® System Sizing

PREPARED BY: \_\_\_\_\_

DATE: 7/18/24

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Project Title:  
IC Construction - Star Lake Spec

, FL

7/18/2024

Reference City: Gainesville, FL (Defaults)  
Humidity difference: 51gr.

Temperature Difference: 19.0F(TMY3 99%)  
Summer Setpoint: 75 °F (Required Manual J default)

### Component Loads for Whole House

| Window | Type*                |             |      |         |            | Overhang   |       | Window Area(sqft) |        |          | HTM    |          | Load      |      |
|--------|----------------------|-------------|------|---------|------------|------------|-------|-------------------|--------|----------|--------|----------|-----------|------|
|        | Panes                | SHGC        | U    | InSh    | IS Ornt    | Len        | Hgt   | Gross             | Shaded | Unshaded | Shaded | Unshaded |           |      |
| 1      | 2 NFRC               | 0.33, 0.26  | No   | No      | N          | 1.5ft      | 2.3ft | 30.0              | 0.0    | 30.0     | 12     | 12       | 356       | Btuh |
| 2      | 2 NFRC               | 0.33, 0.26  | No   | No      | N          | 1.5ft      | 2.3ft | 52.0              | 0.0    | 52.0     | 12     | 12       | 618       | Btuh |
| 3      | 2 NFRC               | 0.33, 0.26  | No   | No      | N          | 1.5ft      | 2.3ft | 52.0              | 0.0    | 52.0     | 12     | 12       | 618       | Btuh |
| 4      | 2 NFRC               | 0.33, 0.26  | No   | No      | E          | 1.5ft      | 2.3ft | 20.0              | 0.0    | 20.0     | 12     | 37       | 735       | Btuh |
| 5      | 2 NFRC               | 0.33, 0.26  | No   | No      | E          | 1.5ft      | 2.3ft | 8.0               | 0.0    | 8.0      | 12     | 37       | 294       | Btuh |
| 6      | 2 NFRC               | 0.33, 0.26  | No   | No      | E          | 1.5ft      | 2.3ft | 6.0               | 0.0    | 6.0      | 12     | 37       | 221       | Btuh |
| 7      | 2 NFRC               | 0.33, 0.26  | No   | No      | E          | 1.5ft      | 2.3ft | 9.0               | 0.0    | 9.0      | 12     | 37       | 331       | Btuh |
| 8      | 2 NFRC               | 0.33, 0.26  | No   | No      | S          | 1.5ft      | 2.3ft | 12.0              | 12.0   | 0.0      | 12     | 14       | 143       | Btuh |
| 9      | 2 NFRC               | 0.33, 0.26  | No   | No      | S          | 1.5ft      | 2.3ft | 25.0              | 25.0   | 0.0      | 12     | 14       | 297       | Btuh |
| 10     | 2 NFRC               | 0.33, 0.26  | No   | No      | S          | 1.5ft      | 2.3ft | 15.0              | 15.0   | 0.0      | 12     | 14       | 178       | Btuh |
| 11     | 2 NFRC               | 0.33, 0.26  | No   | No      | W          | 1.5ft      | 2.3ft | 6.0               | 0.0    | 6.0      | 12     | 37       | 221       | Btuh |
|        | Window Total         |             |      |         |            |            |       | 235 (sqft)        |        |          |        |          | 4011 Btuh |      |
| Walls  | Type                 | U-Value     |      | R-Value |            | Area(sqft) |       | HTM               |        | Load     |        |          |           |      |
|        |                      |             |      |         | Cav/Sheath |            |       |                   |        |          |        |          |           |      |
| 1      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 121.5 |                   | 2.3    |          | 275    | Btuh     |           |      |
| 2      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 63.0  |                   | 2.3    |          | 143    | Btuh     |           |      |
| 3      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 90.7  |                   | 2.3    |          | 205    | Btuh     |           |      |
| 4      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 63.0  |                   | 2.3    |          | 143    | Btuh     |           |      |
| 5      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 50.0  |                   | 2.3    |          | 113    | Btuh     |           |      |
| 6      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 27.0  |                   | 2.3    |          | 61     | Btuh     |           |      |
| 7      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 92.0  |                   | 2.3    |          | 208    | Btuh     |           |      |
| 8      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 115.0 |                   | 2.3    |          | 260    | Btuh     |           |      |
| 9      | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 63.0  |                   | 2.3    |          | 143    | Btuh     |           |      |
| 10     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 130.0 |                   | 2.3    |          | 294    | Btuh     |           |      |
| 11     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 63.0  |                   | 2.3    |          | 143    | Btuh     |           |      |
| 12     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 118.5 |                   | 2.3    |          | 268    | Btuh     |           |      |
| 13     | Frame - Wood - Adj   |             | 0.09 |         | 13.0/0.0   |            | 230.5 |                   | 1.7    |          | 389    | Btuh     |           |      |
| 14     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 138.3 |                   | 2.3    |          | 313    | Btuh     |           |      |
| 15     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 54.0  |                   | 2.3    |          | 122    | Btuh     |           |      |
| 16     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 83.0  |                   | 2.3    |          | 188    | Btuh     |           |      |
| 17     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 96.0  |                   | 2.3    |          | 217    | Btuh     |           |      |
| 18     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 66.0  |                   | 2.3    |          | 149    | Btuh     |           |      |
| 19     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 129.0 |                   | 2.3    |          | 292    | Btuh     |           |      |
| 20     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 18.0  |                   | 2.3    |          | 41     | Btuh     |           |      |
| 21     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 60.0  |                   | 2.3    |          | 136    | Btuh     |           |      |
| 22     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 18.0  |                   | 2.3    |          | 41     | Btuh     |           |      |
| 23     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 111.0 |                   | 2.3    |          | 251    | Btuh     |           |      |
| 24     | Frame - Wood - Ext   |             | 0.09 |         | 13.0/0.0   |            | 101.3 |                   | 2.3    |          | 229    | Btuh     |           |      |
|        | Wall Total           |             |      |         |            |            |       | 2102 (sqft)       |        |          |        |          | 4624 Btuh |      |
| Doors  | Type                 | Area (sqft) |      | HTM     |            | Load       |       |                   |        |          |        |          |           |      |
|        |                      |             |      |         |            |            |       |                   |        |          |        |          |           |      |
| 1      | Insulated - Exterior |             | 96.0 |         | 13.8       |            | 1325  | Btuh              |        |          |        |          |           |      |
| 2      | Insulated - Garage   |             | 20.0 |         | 13.8       |            | 276   | Btuh              |        |          |        |          |           |      |
| 3      | Insulated - Exterior |             | 28.0 |         | 13.8       |            | 386   | Btuh              |        |          |        |          |           |      |
|        | Door Total           |             |      |         |            |            |       | 144 (sqft)        |        |          |        |          | 1987 Btuh |      |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
IC Construction - Star Lake Spec

, FL

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| <b>Ceilings</b>      | Type/Color/Surface                                       | U-Value     | R-Value       | Area(sqft)          | HTM            | Load       |
|----------------------|----------------------------------------------------------|-------------|---------------|---------------------|----------------|------------|
| 1                    | SnglAsmb no airsp/DarkShingle                            | 0.027       | 0.0/40.0      | 2541.0              | 0.71           | 1810 Btuh  |
| 2                    | SnglAsmb no airsp/DarkShingle                            | 0.027       | 0.0/40.0      | 485.0               | 0.71           | 345 Btuh   |
|                      | Ceiling Total                                            |             |               | 3026 (sqft)         |                | 2156 Btuh  |
| <b>Floors</b>        | Type                                                     |             | R-Value       | Size                | HTM            | Load       |
| 1                    | Slab On Grade                                            |             | 0.0           | 2541 (ft-perimeter) | 0.0            | 0 Btuh     |
| 2                    | Raised Wood - Adj                                        |             | 0.0           | 485 (sqft)          | 5.4            | 2612 Btuh  |
|                      | Floor Total                                              |             |               | 3026.0 (sqft)       |                | 2612 Btuh  |
|                      | Envelope Subtotal:                                       |             |               |                     |                | 15390 Btuh |
| <b>Infiltration</b>  | Type                                                     | Average ACH | Volume(cuft)  | Wall Ratio          | CFM=           | Load       |
|                      | Natural                                                  | 0.13        | 26749         | 1                   | 58.2           | 1213 Btuh  |
| <b>Internal gain</b> |                                                          | Occupants   | Btuh/occupant | Appliance           |                | Load       |
|                      |                                                          | 10          | X 230         | +                   | 4300           | 6600 Btuh  |
|                      | Sensible Envelope Load:                                  |             |               |                     |                | 23202 Btuh |
| <b>Duct load</b>     | Extremely sealed, Supply(R6.0-Condi), Return(R6.0-Condi) |             |               |                     | (DGM of 0.000) | 0 Btuh     |
|                      | Sensible Load All Zones                                  |             |               |                     |                | 23202 Btuh |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
IC Construction - Star Lake Spec

, FL

7/18/2024

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>23202 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>23202 Btuh</b> |
|                                           | Sensible ventilation (Ex:0 cfm; Sup:0 cfm)                | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>23202 Btuh</b> |
|                                           | Latent infiltration gain (for 51 gr. humidity difference) | 2012 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (10.0 people @ 200 Btuh per person)  | 2000 Btuh         |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>4012 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>27215 Btuh</b> |

### EQUIPMENT

|                 |   |            |
|-----------------|---|------------|
| 1. Central Unit | # | 48000 Btuh |
|-----------------|---|------------|

\*Key: Window types (Panels - Number and type of panes of glass)  
(SHGC - Shading coefficient of glass as SHGC numerical value)  
(U - Window U-Factor)  
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))  
- For Blinds: Assume medium color, half closed  
For Draperies: Assume medium weave, half closed  
For Roller shades: Assume translucent, half closed  
(IS - Insect screen: none(N), Full(F) or Half(½))  
(Ornt - compass orientation)



Version 8

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Project Title:  
IC Construction - Star Lake Spec  
Building Type: User

, FL

7/18/2024

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 °F (TMY3 99%)  
Winter Setpoint: 70 °F (Required Manual J default)

### Component Loads for Whole House

| Window       | Panes/Type   | Frame | U       | Orientation         | Area(sqft)  | X | HTM= | Load      |
|--------------|--------------|-------|---------|---------------------|-------------|---|------|-----------|
| 1            | 2, NFRC 0.33 | Vinyl | 0.26    | N                   | 30.0        |   | 10.4 | 312 Btuh  |
| 2            | 2, NFRC 0.33 | Vinyl | 0.26    | N                   | 52.0        |   | 10.4 | 541 Btuh  |
| 3            | 2, NFRC 0.33 | Vinyl | 0.26    | N                   | 52.0        |   | 10.4 | 541 Btuh  |
| 4            | 2, NFRC 0.33 | Vinyl | 0.26    | E                   | 20.0        |   | 10.4 | 208 Btuh  |
| 5            | 2, NFRC 0.33 | Vinyl | 0.26    | E                   | 8.0         |   | 10.4 | 83 Btuh   |
| 6            | 2, NFRC 0.33 | Vinyl | 0.26    | E                   | 6.0         |   | 10.4 | 62 Btuh   |
| 7            | 2, NFRC 0.33 | Vinyl | 0.26    | E                   | 9.0         |   | 10.4 | 94 Btuh   |
| 8            | 2, NFRC 0.33 | Vinyl | 0.26    | S                   | 12.0        |   | 10.4 | 125 Btuh  |
| 9            | 2, NFRC 0.33 | Vinyl | 0.26    | S                   | 25.0        |   | 10.4 | 260 Btuh  |
| 10           | 2, NFRC 0.33 | Vinyl | 0.26    | S                   | 15.0        |   | 10.4 | 156 Btuh  |
| 11           | 2, NFRC 0.33 | Vinyl | 0.26    | W                   | 6.0         |   | 10.4 | 62 Btuh   |
| Window Total |              |       |         |                     | 235.0(sqft) |   |      | 2444 Btuh |
| Walls        | Type         | Ornt. | Ueff.   | R-Value<br>(Cav/Sh) | Area        | X | HTM= | Load      |
| 1            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 122         |   | 3.55 | 431 Btuh  |
| 2            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 63          |   | 3.55 | 224 Btuh  |
| 3            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 91          |   | 3.55 | 322 Btuh  |
| 4            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 63          |   | 3.55 | 224 Btuh  |
| 5            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 50          |   | 3.55 | 178 Btuh  |
| 6            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 27          |   | 3.55 | 96 Btuh   |
| 7            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 92          |   | 3.55 | 327 Btuh  |
| 8            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 115         |   | 3.55 | 408 Btuh  |
| 9            | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 63          |   | 3.55 | 224 Btuh  |
| 10           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 130         |   | 3.55 | 462 Btuh  |
| 11           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 63          |   | 3.55 | 224 Btuh  |
| 12           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 119         |   | 3.55 | 421 Btuh  |
| 13           | Frame - Wood | - Adj | (0.089) | 13.0/0.0            | 231         |   | 3.55 | 818 Btuh  |
| 14           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 138         |   | 3.55 | 491 Btuh  |
| 15           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 54          |   | 3.55 | 192 Btuh  |
| 16           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 83          |   | 3.55 | 295 Btuh  |
| 17           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 96          |   | 3.55 | 341 Btuh  |
| 18           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 66          |   | 3.55 | 234 Btuh  |
| 19           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 129         |   | 3.55 | 458 Btuh  |
| 20           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 18          |   | 3.55 | 64 Btuh   |
| 21           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 60          |   | 3.55 | 213 Btuh  |
| 22           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 18          |   | 3.55 | 64 Btuh   |
| 23           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 111         |   | 3.55 | 394 Btuh  |
| 24           | Frame - Wood | - Ext | (0.089) | 13.0/0.0            | 101         |   | 3.55 | 360 Btuh  |
| Wall Total   |              |       |         |                     | 2102(sqft)  |   |      | 7462 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

, FL

Project Title:  
IC Construction - Star Lake Spec  
Building Type: User

7/18/2024

|                     |                                                                 |                |              |                  |      |                   |
|---------------------|-----------------------------------------------------------------|----------------|--------------|------------------|------|-------------------|
| <b>Doors</b>        | Type                                                            | Storm Ueff.    |              | Area X           | HTM= | Load              |
| 1                   | Insulated - Exterior, n                                         | (0.460)        |              | 96               | 18.4 | 1766 Btuh         |
| 2                   | Insulated - Garage, n                                           | (0.460)        |              | 20               | 18.4 | 368 Btuh          |
| 3                   | Insulated - Exterior, n                                         | (0.460)        |              | 28               | 18.4 | 515 Btuh          |
|                     | Door Total                                                      |                |              | 144(sqft)        |      | 2650Btuh          |
| <b>Ceilings</b>     | Type/Color/Surface                                              | Ueff.          | R-Value      | Area X           | HTM= | Load              |
| 1                   | Single as/D/Shing                                               | (0.027)        | 0.0/40.0     | 2541             | 1.1  | 2785 Btuh         |
| 2                   | Single as/D/Shing                                               | (0.027)        | 0.0/40.0     | 485              | 1.1  | 532 Btuh          |
|                     | Ceiling Total                                                   |                |              | 3026(sqft)       |      | 3316Btuh          |
| <b>Floors</b>       | Type                                                            | Ueff.          | R-Value      | Size X           | HTM= | Load              |
| 1                   | Slab On Grade                                                   | (1.180)        | 0.0          | 260.0 ft(perim.) | 47.2 | 12272 Btuh        |
| 2                   | Raised Wood - Adj                                               | (0.385)        | 0.0          | 485.0 sqft       | 15.4 | 7462 Btuh         |
|                     | Floor Total                                                     |                |              | 3026 sqft        |      | 19734 Btuh        |
|                     | Envelope Subtotal:                                              |                |              |                  |      | 35606 Btuh        |
| <b>Infiltration</b> | Type                                                            | Wholehouse ACH | Volume(cuft) | Wall Ratio       | CFM= |                   |
|                     | Natural                                                         | 0.17           | 26749        | 1.00             | 77.6 | 3404 Btuh         |
| <b>Duct load</b>    | Extremely sealed, R6.0, Supply(Con), Return(Con) (DLM of 0.000) |                |              |                  |      | 0 Btuh            |
| <b>All Zones</b>    | <b>Sensible Subtotal All Zones</b>                              |                |              |                  |      | <b>39010 Btuh</b> |

### WHOLE HOUSE TOTALS

| Totals for Heating | Subtotal Sensible Heat Loss                       | 39010 Btuh |
|--------------------|---------------------------------------------------|------------|
|                    | Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) | 0 Btuh     |
|                    | Total Heat Loss                                   | 39010 Btuh |

### EQUIPMENT

|                       |   |            |
|-----------------------|---|------------|
| 1. Electric Heat Pump | # | 48000 Btuh |
|-----------------------|---|------------|

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Project Title:  
IC Construction - Star Lake Spec  
Building Type: User

, FL

7/18/2024

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)  
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)  
U - (Window U-Factor)  
HTM - (ManualJ Heat Transfer Multiplier)



Version 8