

# Residential System Sizing Calculation

## Summary

Hiatt Res  
1232 SW High Field Ter  
Lake City, FL

Project Title:  
220406 Hiatt

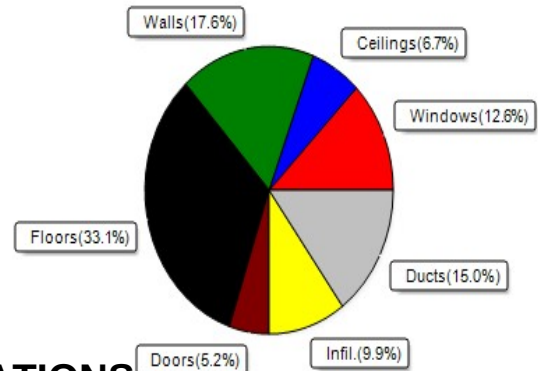
2022-04-06

|                                                                                                       |                   |                                       |                   |
|-------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 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>30782 Btuh</b> | <b>Total cooling load calculation</b> | <b>30033 Btuh</b> |
| Submitted heating capacity                                                                            | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)                                                                            | 107.2 33000       | Sensible (SHR = 0.75)                 | 95.7 24750        |
| Heat Pump + Auxiliary(0.0kW)                                                                          | 107.2 33000       | Latent                                | 198.0 8250        |
|                                                                                                       |                   | Total (Electric Heat Pump)            | 109.9 33000       |

## WINTER CALCULATIONS

Winter Heating Load (for 1922 sqft)

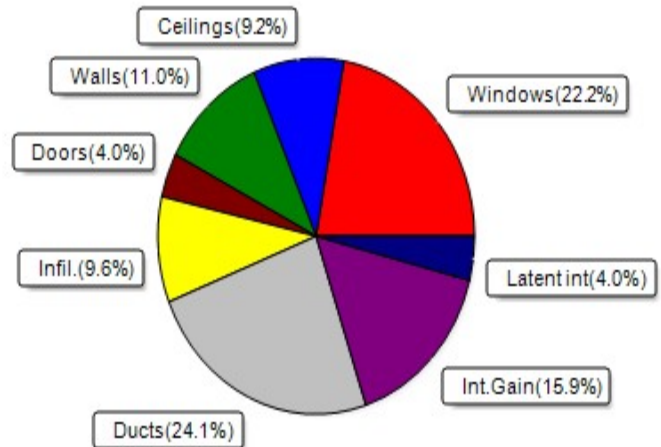
| Load component         |           | Load         |             |
|------------------------|-----------|--------------|-------------|
| Window total           | 324 sqft  | 3882         | Btuh        |
| Wall total             | 1524 sqft | 5409         | Btuh        |
| Door total             | 100 sqft  | 1600         | Btuh        |
| Ceiling total          | 2018 sqft | 2049         | Btuh        |
| Floor total            | 1922 sqft | 10195        | Btuh        |
| Infiltration           | 69 cfm    | 3041         | Btuh        |
| Duct loss              |           | 4606         | Btuh        |
| <b>Subtotal</b>        |           | <b>30782</b> | <b>Btuh</b> |
| Ventilation            | 0 cfm     | 0            | Btuh        |
| <b>TOTAL HEAT LOSS</b> |           | <b>30782</b> | <b>Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 1922 sqft)

| Load component                        |           | Load         |             |
|---------------------------------------|-----------|--------------|-------------|
| Window total                          | 324 sqft  | 6667         | Btuh        |
| Wall total                            | 1524 sqft | 3309         | Btuh        |
| Door total                            | 100 sqft  | 1200         | Btuh        |
| Ceiling total                         | 2018 sqft | 2766         | Btuh        |
| Floor total                           |           | 0            | Btuh        |
| Infiltration                          | 52 cfm    | 1083         | Btuh        |
| Internal gain                         |           | 4780         | Btuh        |
| Duct gain                             |           | 6062         | Btuh        |
| Sens. Ventilation                     | 0 cfm     | 0            | Btuh        |
| Blower Load                           |           | 0            | Btuh        |
| <b>Total sensible gain</b>            |           | <b>25867</b> | <b>Btuh</b> |
| Latent gain(ducts)                    |           | 1168         | Btuh        |
| Latent gain(infiltration)             |           | 1797         | Btuh        |
| Latent gain(ventilation)              |           | 0            | Btuh        |
| Latent gain(internal/occupants/other) |           | 1200         | Btuh        |
| <b>Total latent gain</b>              |           | <b>4166</b>  | <b>Btuh</b> |
| <b>TOTAL HEAT GAIN</b>                |           | <b>30033</b> | <b>Btuh</b> |



8th Edition

EnergyGauge® System Sizing  
PREPARED BY: Evan Beamsley  
DATE: 2022-04-06

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Hiatt Res  
1232 SW High Field Ter  
Lake City, FL

Project Title:  
220406 Hiatt  
Building Type: User

2022-04-06

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

### Component Loads for Whole House

| Window       | Panes/Type              | Frame | U       | Orientation         | Area(sqft)  | X | HTM= | Load      |
|--------------|-------------------------|-------|---------|---------------------|-------------|---|------|-----------|
| 1            | 2, NFRC 0.22            | Metal | 0.30    | N                   | 40.0        |   | 12.0 | 480 Btuh  |
| 2            | 2, NFRC 0.22            | Metal | 0.30    | N                   | 72.0        |   | 12.0 | 864 Btuh  |
| 3            | 2, NFRC 0.22            | Metal | 0.30    | W                   | 48.0        |   | 12.0 | 576 Btuh  |
| 4            | 2, NFRC 0.22            | Metal | 0.30    | N                   | 36.0        |   | 12.0 | 432 Btuh  |
| 5            | 2, NFRC 0.22            | Metal | 0.30    | N                   | 15.0        |   | 12.0 | 180 Btuh  |
| 6            | 2, NFRC 0.22            | Metal | 0.30    | E                   | 4.0         |   | 12.0 | 48 Btuh   |
| 7            | 2, NFRC 0.22            | Metal | 0.30    | E                   | 15.0        |   | 12.0 | 180 Btuh  |
| 8            | 2, NFRC 0.22            | Metal | 0.30    | S                   | 12.0        |   | 12.0 | 144 Btuh  |
| 9            | 2, NFRC 0.22            | Metal | 0.30    | S                   | 32.0        |   | 12.0 | 384 Btuh  |
| 10           | 2, NFRC 0.22            | Metal | 0.30    | S                   | 9.0         |   | 12.0 | 108 Btuh  |
| 11           | 2, NFRC 0.22            | Metal | 0.30    | S                   | 12.0        |   | 12.0 | 144 Btuh  |
| 12           | 2, NFRC 0.22            | Metal | 0.30    | W                   | 12.0        |   | 12.0 | 144 Btuh  |
| 13           | 2, NFRC 0.22            | Metal | 0.30    | W                   | 10.5        |   | 12.0 | 126 Btuh  |
| 14           | 2, NFRC 0.22            | Metal | 0.30    | W                   | 6.0         |   | 12.0 | 72 Btuh   |
| Window Total |                         |       |         |                     | 323.5(sqft) |   |      | 3882 Btuh |
| Walls        | Type                    | Ornt. | Ueff.   | R-Value<br>(Cav/Sh) | Area        | X | HTM= | Load      |
| 1            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 67          |   | 3.55 | 238 Btuh  |
| 2            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 83          |   | 3.55 | 293 Btuh  |
| 3            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 35          |   | 3.55 | 122 Btuh  |
| 4            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 19          |   | 3.55 | 66 Btuh   |
| 5            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 173         |   | 3.55 | 612 Btuh  |
| 6            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 283         |   | 3.55 | 1003 Btuh |
| 7            | Frame - Wood            | - Adj | (0.089) | 13.0/0.0            | 160         |   | 3.55 | 568 Btuh  |
| 8            | Frame - Wood            | - Adj | (0.089) | 13.0/0.0            | 81          |   | 3.55 | 288 Btuh  |
| 9            | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 54          |   | 3.55 | 192 Btuh  |
| 10           | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 8           |   | 3.55 | 27 Btuh   |
| 11           | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 21          |   | 3.55 | 75 Btuh   |
| 12           | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 32          |   | 3.55 | 112 Btuh  |
| 13           | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 157         |   | 3.55 | 557 Btuh  |
| 14           | Frame - Wood            | - Ext | (0.089) | 13.0/0.0            | 354         |   | 3.55 | 1257 Btuh |
| Wall Total   |                         |       |         |                     | 1524(sqft)  |   |      | 5409 Btuh |
| Doors        | Type                    | Storm | Ueff.   |                     | Area        | X | HTM= | Load      |
| 1            | Insulated - Exterior, n |       | (0.400) |                     | 16          |   | 16.0 | 256 Btuh  |
| 2            | Insulated - Exterior, n |       | (0.400) |                     | 24          |   | 16.0 | 384 Btuh  |
| 3            | Insulated - Exterior, n |       | (0.400) |                     | 16          |   | 16.0 | 256 Btuh  |
| 4            | Insulated - Garage, n   |       | (0.400) |                     | 20          |   | 16.0 | 320 Btuh  |
| 5            | Insulated - Exterior, n |       | (0.400) |                     | 24          |   | 16.0 | 384 Btuh  |
| Door Total   |                         |       |         |                     | 100(sqft)   |   |      | 1600Btuh  |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Hiatt Res  
1232 SW High Field Ter  
Lake City, FL

Project Title:  
220406 Hiatt  
Building Type: User

2022-04-06

|                     |                                                               |                |              |                  |      |                   |
|---------------------|---------------------------------------------------------------|----------------|--------------|------------------|------|-------------------|
| <b>Ceilings</b>     | Type/Color/Surface                                            | Ueff.          | R-Value      | Area X           | HTM= | Load              |
| 1                   | Vented Attic/D/Shing                                          | (0.025)        | 38.0/0.0     | 1922             | 1.0  | 1951 Btuh         |
| 2                   | Knee Wall/D/Shing                                             | (0.025)        | 38.0/0.0     | 96               | 1.0  | 97 Btuh           |
|                     | Ceiling Total                                                 |                |              | 2018(sqft)       |      | 2049Btuh          |
| <b>Floors</b>       | Type                                                          | Ueff.          | R-Value      | Size X           | HTM= | Load              |
| 1                   | Slab On Grade                                                 | (1.180)        | 0.0          | 216.0 ft(perim.) | 47.2 | 10195 Btuh        |
|                     | Floor Total                                                   |                |              | 1922 sqft        |      | 10195 Btuh        |
|                     | Envelope Subtotal:                                            |                |              |                  |      | 23135 Btuh        |
| <b>Infiltration</b> | Type                                                          | Wholehouse ACH | Volume(cuft) | Wall Ratio       | CFM= |                   |
|                     | Natural                                                       | 0.23           | 17875        | 1.00             | 69.4 | 3041 Btuh         |
| <b>Duct load</b>    | Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.176) |                |              |                  |      | 4606 Btuh         |
| <b>All Zones</b>    | Sensible Subtotal All Zones                                   |                |              |                  |      | <b>30782 Btuh</b> |

### WHOLE HOUSE TOTALS

|                           |                                |            |
|---------------------------|--------------------------------|------------|
| <b>Totals for Heating</b> | Subtotal Sensible Heat Loss    | 30782 Btuh |
|                           | Ventilation Sensible Heat Loss | 0 Btuh     |
|                           | Total Heat Loss                | 30782 Btuh |

### EQUIPMENT

|                       |   |            |
|-----------------------|---|------------|
| 1. Electric Heat Pump | # | 33000 Btuh |
|-----------------------|---|------------|

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

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Hiatt Res  
1232 SW High Field Ter  
Lake City, FL

Project Title:  
220406 Hiatt

2022-04-06

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%)

Humidity difference: 51gr.

### 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                   | 0.22, 0.30 | No | No   | N  |      | 1.5ft    | 0.5ft      | 40.0                | 3.7    | 36.3     | 10     | 27       | 1015      | Btuh |      |
| 2        | 2 NFRC                   | 0.22, 0.30 | No | No   | N  |      | 10.7f    | 0.0ft      | 72.0                | 72.0   | 0.0      | 10     | 27       | 744       | Btuh |      |
| 3        | 2 NFRC                   | 0.22, 0.30 | No | No   | W  |      | 99.0f    | 0.0ft      | 48.0                | 48.0   | 0.0      | 10     | 12       | 496       | Btuh |      |
| 4        | 2 NFRC                   | 0.22, 0.30 | No | No   | N  |      | 1.5ft    | 1.0ft      | 36.0                | 1.5    | 34.5     | 10     | 27       | 944       | Btuh |      |
| 5        | 2 NFRC                   | 0.22, 0.30 | No | No   | N  |      | 1.5ft    | 1.0ft      | 15.0                | 0.7    | 14.3     | 10     | 27       | 391       | Btuh |      |
| 6        | 2 NFRC                   | 0.22, 0.30 | No | No   | E  |      | 1.5ft    | 1.0ft      | 4.0                 | 0.0    | 4.0      | 10     | 10       | 41        | Btuh |      |
| 7        | 2 NFRC                   | 0.22, 0.30 | No | No   | E  |      | 1.5ft    | 1.0ft      | 15.0                | 0.0    | 15.0     | 10     | 10       | 155       | Btuh |      |
| 8        | 2 NFRC                   | 0.22, 0.30 | No | No   | S  |      | 8.5ft    | 0.5ft      | 12.0                | 12.0   | 0.0      | 10     | 27       | 124       | Btuh |      |
| 9        | 2 NFRC                   | 0.22, 0.30 | No | No   | S  |      | 12.0f    | 0.5ft      | 32.0                | 32.0   | 0.0      | 10     | 27       | 330       | Btuh |      |
| 10       | 2 NFRC                   | 0.22, 0.30 | No | No   | S  |      | 1.5ft    | 1.0ft      | 9.0                 | 0.7    | 8.3      | 10     | 27       | 230       | Btuh |      |
| 11       | 2 NFRC                   | 0.22, 0.30 | No | No   | S  |      | 1.5ft    | 1.0ft      | 12.0                | 0.7    | 11.3     | 10     | 27       | 311       | Btuh |      |
| 12       | 2 NFRC                   | 0.22, 0.30 | No | No   | W  |      | 1.5ft    | 1.0ft      | 12.0                | 12.0   | 0.0      | 10     | 12       | 124       | Btuh |      |
| 13       | 2 NFRC                   | 0.22, 0.30 | No | No   | W  |      | 1.5ft    | 1.0ft      | 10.5                | 10.5   | 0.0      | 10     | 12       | 108       | Btuh |      |
| 14       | 2 NFRC                   | 0.22, 0.30 | No | No   | W  |      | 1.5ft    | 1.0ft      | 6.0                 | 6.0    | 0.0      | 10     | 12       | 62        | Btuh |      |
|          | Excursion                |            |    |      |    |      |          |            |                     |        |          |        |          | 1592      | Btuh |      |
|          | Window Total             |            |    |      |    |      |          |            | 324 (sqft)          |        |          |        |          |           | 6667 | Btuh |
| Walls    | Type                     |            |    |      |    |      | U-Value  | R-Value    | Area(sqft)          |        |          | HTM    |          | Load      |      |      |
|          |                          |            |    |      |    |      |          | Cav/Sheath |                     |        |          |        |          |           |      |      |
| 1        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 67.0                |        |          | 2.3    |          | 152 Btuh  |      |      |
| 2        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 82.5                |        |          | 2.3    |          | 187 Btuh  |      |      |
| 3        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 34.5                |        |          | 2.3    |          | 78 Btuh   |      |      |
| 4        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 18.5                |        |          | 2.3    |          | 42 Btuh   |      |      |
| 5        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 172.5               |        |          | 2.3    |          | 390 Btuh  |      |      |
| 6        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 282.5               |        |          | 2.3    |          | 639 Btuh  |      |      |
| 7        | Frame - Wood - Adj       |            |    |      |    |      | 0.09     | 13.0/0.0   | 160.0               |        |          | 1.7    |          | 270 Btuh  |      |      |
| 8        | Frame - Wood - Adj       |            |    |      |    |      | 0.09     | 13.0/0.0   | 81.0                |        |          | 1.7    |          | 137 Btuh  |      |      |
| 9        | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 54.0                |        |          | 2.3    |          | 122 Btuh  |      |      |
| 10       | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 7.5                 |        |          | 2.3    |          | 17 Btuh   |      |      |
| 11       | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 21.3                |        |          | 2.3    |          | 48 Btuh   |      |      |
| 12       | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 31.5                |        |          | 2.3    |          | 71 Btuh   |      |      |
| 13       | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 156.8               |        |          | 2.3    |          | 355 Btuh  |      |      |
| 14       | Frame - Wood - Ext       |            |    |      |    |      | 0.09     | 13.0/0.0   | 354.0               |        |          | 2.3    |          | 801 Btuh  |      |      |
|          | Wall Total               |            |    |      |    |      |          |            | 1524 (sqft)         |        |          |        |          | 3309 Btuh |      |      |
| Doors    | Type                     |            |    |      |    |      |          |            | Area (sqft)         |        |          | HTM    |          | Load      |      |      |
|          |                          |            |    |      |    |      |          |            |                     |        |          |        |          |           |      |      |
| 1        | Insulated - Exterior     |            |    |      |    |      |          |            | 16.0                |        |          | 12.0   |          | 192 Btuh  |      |      |
| 2        | Insulated - Exterior     |            |    |      |    |      |          |            | 24.0                |        |          | 12.0   |          | 288 Btuh  |      |      |
| 3        | Insulated - Exterior     |            |    |      |    |      |          |            | 16.0                |        |          | 12.0   |          | 192 Btuh  |      |      |
| 4        | Insulated - Garage       |            |    |      |    |      |          |            | 20.0                |        |          | 12.0   |          | 240 Btuh  |      |      |
| 5        | Insulated - Exterior     |            |    |      |    |      |          |            | 24.0                |        |          | 12.0   |          | 288 Btuh  |      |      |
|          | Door Total               |            |    |      |    |      |          |            | 100 (sqft)          |        |          |        |          | 1200 Btuh |      |      |
| Ceilings | Type/Color/Surface       |            |    |      |    |      | U-Value  | R-Value    | Area(sqft)          |        |          | HTM    |          | Load      |      |      |
|          |                          |            |    |      |    |      |          |            |                     |        |          |        |          |           |      |      |
| 1        | Vented Attic/DarkShingle |            |    |      |    |      | 0.025    | 38.0/0.0   | 1922.0              |        |          | 1.37   |          | 2634 Btuh |      |      |
| 2        | Knee Wall/DarkShingle    |            |    |      |    |      | 0.025    | 38.0/0.0   | 96.0                |        |          | 1.37   |          | 132 Btuh  |      |      |
|          | Ceiling Total            |            |    |      |    |      |          |            | 2018 (sqft)         |        |          |        |          | 2766 Btuh |      |      |
| Floors   | Type                     |            |    |      |    |      |          | R-Value    | Size                |        |          | HTM    |          | Load      |      |      |
|          |                          |            |    |      |    |      |          |            |                     |        |          |        |          |           |      |      |
| 1        | Slab On Grade            |            |    |      |    |      |          | 0.0        | 1922 (ft-perimeter) |        |          | 0.0    |          | 0 Btuh    |      |      |
|          | Floor Total              |            |    |      |    |      |          |            | 1922.0 (sqft)       |        |          |        |          | 0 Btuh    |      |      |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Hiatt Res  
1232 SW High Field Ter  
Lake City, FL

Project Title:  
220406 Hiatt

Climate:FL\_GAINESVILLE\_REGIONAL\_A

2022-04-06

|                      |                                                                       |             |               |            |           |                   |
|----------------------|-----------------------------------------------------------------------|-------------|---------------|------------|-----------|-------------------|
|                      | Envelope Subtotal:                                                    |             |               |            |           | 13942 Btuh        |
| <b>Infiltration</b>  | Type                                                                  | Average ACH | Volume(cuft)  | Wall Ratio | CFM=      | Load              |
|                      | Natural                                                               | 0.17        | 17875         | 1          | 52.1      | 1083 Btuh         |
| <b>Internal gain</b> |                                                                       | Occupants   | Btuh/occupant |            | Appliance | Load              |
|                      |                                                                       | 6           | X 230         | +          | 3400      | 4780 Btuh         |
|                      | Sensible Envelope Load:                                               |             |               |            |           | 19805 Btuh        |
| <b>Duct load</b>     | Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.306) |             |               |            |           | 6062 Btuh         |
|                      | <b>Sensible Load All Zones</b>                                        |             |               |            |           | <b>25867 Btuh</b> |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Hiett Res  
1232 SW High Field Ter  
Lake City, FL

Project Title:  
220406 Hiatt

Climate:FL\_GAINESVILLE\_REGIONAL\_A

2022-04-06

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>19805 Btuh</b> |
|                                           | Sensible Duct Load                                        | 6062 Btuh         |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>25867 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>25867 Btuh</b> |
|                                           | Latent infiltration gain (for 51 gr. humidity difference) | 1797 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 1168 Btuh         |
|                                           | Latent occupant gain (6.0 people @ 200 Btuh per person)   | 1200 Btuh         |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>4166 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>30033 Btuh</b> |

### EQUIPMENT

|                 |   |            |
|-----------------|---|------------|
| 1. Central Unit | # | 33000 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