



# Load Short Form

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Information

|                             | Htg | Clg | Infiltration        |                        |
|-----------------------------|-----|-----|---------------------|------------------------|
| Outside db (°F)             | 29  | 93  | Method              | Blower door            |
| Inside db (°F)              | 70  | 75  | Shielding / stories | 3 (partial) / 2        |
| Design TD (°F)              | 41  | 18  | Pressure /ACH /AVF  | 50 Pa / 4.5 / 3572 cfm |
| Daily range                 | -   | L   |                     |                        |
| Inside humidity (%)         | 50  | 50  |                     |                        |
| Moisture difference (gr/lb) | 36  | 61  |                     |                        |

### HEATING EQUIPMENT

Make Ruud  
Trade RUUD  
Model RP1542AJ1NA  
AHRI ref 7512350

Efficiency 9 HSPF  
Heating input  
Heating output 40000 Btuh @ 47°F  
Temperature rise 23 °F  
Actual air flow 1597 cfm  
Air flow factor 0.046 cfm/Btuh  
Static pressure 0.60 in H2O  
Space thermostat  
Capacity balance point = 28 °F

Backup: Ruud RXBH-1724A18J  
Input = 17 kW, Output = 58006 Btuh, 100 AFUE

### COOLING EQUIPMENT

Make Ruud  
Trade RUUD  
Cond RP1542AJ1NA  
Coil RH1T4821STANJAUSA  
AHRI ref 7512350

Efficiency 12.5 EER, 15 SEER  
Sensible cooling 34000 Btuh  
Latent cooling 8500 Btuh  
Total cooling 42500 Btuh  
Actual air flow 1597 cfm  
Air flow factor 0.061 cfm/Btuh  
Static pressure 0.60 in H2O  
Load sensible heat ratio 0.78

| ROOM NAME   | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|-------------|------------|-----------------|-----------------|---------------|---------------|
| Bar         | 76         | 1487            | 616             | 68            | 38            |
| Bonus       | 247        | 8229            | 4269            | 378           | 261           |
| Breakfast   | 195        | 4515            | 3348            | 207           | 205           |
| Dining      | 202        | 3875            | 2604            | 178           | 159           |
| Foyer       | 154        | 1358            | 835             | 62            | 51            |
| H Bath      | 65         | 1083            | 235             | 50            | 14            |
| H Clos      | 54         | 1806            | 680             | 83            | 42            |
| Hall        | 181        | 3944            | 2427            | 181           | 149           |
| Kitchen     | 255        | 688             | 2806            | 32            | 172           |
| Living Room | 488        | 2263            | 4143            | 104           | 254           |
| M Hall      | 96         | 3462            | 3208            | 159           | 196           |
| Office      | 94         | 2080            | 441             | 95            | 27            |
| Pantry      | 36         | 0               | 484             | 0             | 30            |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 1

|                   |      |       |       |      |      |
|-------------------|------|-------|-------|------|------|
| AHU-1 Main        | 2142 | 34789 | 26096 | 1597 | 1597 |
| Other equip loads |      | 1173  | 775   |      |      |
| Equip. @ 1.00 RSM |      |       | 26871 |      |      |
| Latent cooling    |      |       | 7390  |      |      |
| TOTALS            | 2142 | 35962 | 34260 | 1597 | 1597 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



**WRIGHTSOFT**

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 2



# Load Short Form

## AHU-2 Master/BR2

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Information

|                             | Htg | Clg | Infiltration        |                        |
|-----------------------------|-----|-----|---------------------|------------------------|
| Outside db (°F)             | 29  | 93  | Method              | Blower door            |
| Inside db (°F)              | 70  | 75  | Shielding / stories | 3 (partial) / 2        |
| Design TD (°F)              | 41  | 18  | Pressure /ACH /AVF  | 50 Pa / 4.5 / 3572 cfm |
| Daily range                 | -   | L   |                     |                        |
| Inside humidity (%)         | 50  | 50  |                     |                        |
| Moisture difference (gr/lb) | 36  | 61  |                     |                        |

### HEATING EQUIPMENT

Make Ruud  
Trade RUUD  
Model RP1518BJ1NA  
AHRI ref 201663836

Efficiency 9 HSPF  
Heating input  
Heating output 15700 Btuh @ 47°F  
Temperature rise 23 °F  
Actual air flow 623 cfm  
Air flow factor 0.030 cfm/Btuh  
Static pressure 0.60 in H2O  
Space thermostat  
Capacity balance point = 38 °F

Backup: Ruud RXBH-1424707  
Input = 7 kW, Output = 24567 Btuh, 100 AFUE

### COOLING EQUIPMENT

Make Ruud  
Trade RUUD  
Cond RP1518BJ1NA  
Coil RH1T2417STANAA  
AHRI ref 201663836

Efficiency 13.0 EER, 16 SEER  
Sensible cooling 14800 Btuh  
Latent cooling 3700 Btuh  
Total cooling 18500 Btuh  
Actual air flow 623 cfm  
Air flow factor 0.058 cfm/Btuh  
Static pressure 0.60 in H2O  
Load sensible heat ratio 0.69

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|-----------|------------|-----------------|-----------------|---------------|---------------|
| Bath 2    | 57         | 862             | 646             | 26            | 38            |
| Bedroom 2 | 211        | 5860            | 2438            | 175           | 142           |
| Clos 2    | 29         | 608             | 453             | 18            | 26            |
| M Bath    | 235        | 1807            | 1086            | 54            | 63            |
| M Bedroom | 321        | 8015            | 3705            | 240           | 216           |
| M Clos    | 216        | 1972            | 671             | 59            | 39            |
| U Hall    | 61         | 0               | 0               | 0             | 0             |
| Utility   | 115        | 1229            | 1181            | 37            | 69            |
| WC        | 21         | 491             | 508             | 15            | 30            |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 3

|                   |      |       |       |     |     |
|-------------------|------|-------|-------|-----|-----|
| AHU-2 Master/BR2  | 1267 | 20845 | 10689 | 623 | 623 |
| Other equip loads |      | 0     | 0     |     |     |
| Equip. @ 1.00 RSM |      |       | 10689 |     |     |
| Latent cooling    |      |       | 4901  |     |     |
| TOTALS            | 1267 | 20845 | 15589 | 623 | 623 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



**WRIGHTSOFT**

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 4



# Load Short Form

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Information

|                             | Htg | Clg | Infiltration        |                        |
|-----------------------------|-----|-----|---------------------|------------------------|
| Outside db (°F)             | 29  | 93  | Method              | Blower door            |
| Inside db (°F)              | 70  | 75  | Shielding / stories | 3 (partial) / 2        |
| Design TD (°F)              | 41  | 18  | Pressure /ACH /AVF  | 50 Pa / 4.5 / 3572 cfm |
| Daily range                 | -   | L   |                     |                        |
| Inside humidity (%)         | 50  | 50  |                     |                        |
| Moisture difference (gr/lb) | 36  | 61  |                     |                        |

### HEATING EQUIPMENT

Make Ruud  
Trade RUUD  
Model RP1518BJ1NA  
AHRI ref 201663836

Efficiency 9 HSPF  
Heating input  
Heating output 15700 Btuh @ 47°F  
Temperature rise 23 °F  
Actual air flow 620 cfm  
Air flow factor 0.045 cfm/Btuh  
Static pressure 0.60 in H2O  
Space thermostat  
Capacity balance point = 28 °F

Backup: Ruud RXBH-1424705  
Input = 5 kW, Output = 16378 Btuh, 100 AFUE

### COOLING EQUIPMENT

Make Ruud  
Trade RUUD  
Cond RP1518BJ1NA  
Coil RH1T2417STANAA  
AHRI ref 201663836

Efficiency 13.0 EER, 16 SEER  
Sensible cooling 14800 Btuh  
Latent cooling 3700 Btuh  
Total cooling 18500 Btuh  
Actual air flow 620 cfm  
Air flow factor 0.057 cfm/Btuh  
Static pressure 0.60 in H2O  
Load sensible heat ratio 0.71

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|-----------|------------|-----------------|-----------------|---------------|---------------|
| Bath 3    | 58         | 915             | 809             | 41            | 46            |
| Bath 4    | 58         | 915             | 794             | 41            | 45            |
| Bedroom 3 | 208        | 2023            | 1328            | 91            | 76            |
| Bedroom 4 | 194        | 2967            | 1874            | 134           | 107           |
| Clos 3    | 36         | 1312            | 738             | 59            | 42            |
| Clos 4    | 38         | 42              | 602             | 2             | 34            |
| Den       | 325        | 3821            | 3671            | 173           | 209           |
| Stairs    | 89         | 1731            | 1077            | 78            | 61            |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 5

|                   |      |       |       |     |     |
|-------------------|------|-------|-------|-----|-----|
| AHU-3 Second      | 1007 | 13726 | 10893 | 620 | 620 |
| Other equip loads |      | 0     | 0     |     |     |
| Equip. @ 1.00 RSM |      |       | 10893 |     |     |
| Latent cooling    |      |       | 4392  |     |     |
| TOTALS            | 1007 | 13726 | 15285 | 620 | 620 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



**WRIGHTSOFT**

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 6



# Building Analysis

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

### Location:

Pensacola NAS, FL, US  
Elevation: 28 ft  
Latitude: 30°N

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

29  
-  
-  
15.0

### Cooling

93  
14 ( L )  
79  
7.5

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

70  
41  
50  
36.2

### Cooling

75  
18  
50  
60.8

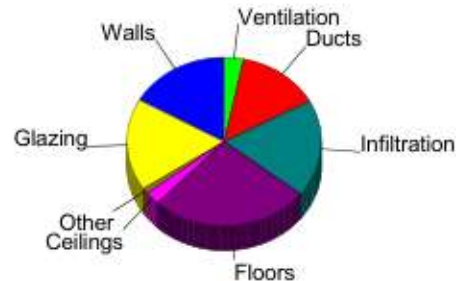
### Infiltration:

Method  
Shielding / stories  
Pressure /ACH /AVF

Blower door  
3 (partial) / 2  
50 Pa / 4.5 / 3572 cfm

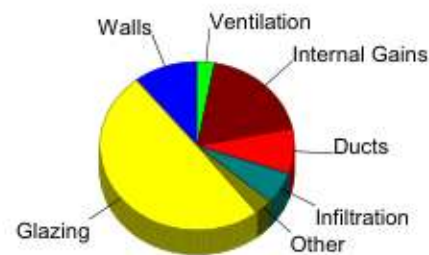
## Heating

| Component      | Btuh/ft² | Btuh         | % of load    |
|----------------|----------|--------------|--------------|
| Walls          | 3.1      | 6040         | 16.8         |
| Glazing        | 10.2     | 6340         | 17.6         |
| Doors          | 16.0     | 383          | 1.1          |
| Ceilings       | 0.8      | 904          | 2.5          |
| Floors         | 4.4      | 9472         | 26.3         |
| Infiltration   | 3.3      | 6692         | 18.6         |
| Ducts          |          | 4958         | 13.8         |
| Piping         |          | 0            | 0            |
| Humidification |          | 0            | 0            |
| Ventilation    |          | 1173         | 3.3          |
| Adjustments    |          | 0            |              |
| <b>Total</b>   |          | <b>35962</b> | <b>100.0</b> |



## Cooling

| Component      | Btuh/ft² | Btuh         | % of load    |
|----------------|----------|--------------|--------------|
| Walls          | 1.5      | 2885         | 10.7         |
| Glazing        | 21.5     | 13359        | 49.7         |
| Doors          | 12.5     | 301          | 1.1          |
| Ceilings       | 0.5      | 526          | 2.0          |
| Floors         | 0        | 0            | 0            |
| Infiltration   | 0.8      | 1652         | 6.1          |
| Ducts          |          | 2323         | 8.6          |
| Ventilation    |          | 775          | 2.9          |
| Internal gains |          | 5050         | 18.8         |
| Blower         |          | 0            | 0            |
| Adjustments    |          | 0            |              |
| <b>Total</b>   |          | <b>26871</b> | <b>100.0</b> |



Latent Cooling Load = 7390 Btuh

Overall U-value = 0.098 Btuh/ft²-°F, Window / Floor Area = 28.9 %

WARNING: window to floor area ratio = 28.9% - more than 25%.





# Building Analysis AHU-2 Master/BR2 LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

### Location:

Pensacola NAS, FL, US  
Elevation: 28 ft  
Latitude: 30°N

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

29  
-  
15.0

### Cooling

93  
14 ( L )  
79  
7.5

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

70  
41  
50  
36.2

### Cooling

75  
18  
50  
60.8

### Infiltration:

Method  
Shielding / stories  
Pressure /ACH /AVF

Blower door  
3 (partial) / 2  
50 Pa / 4.5 / 3572 cfm

## Heating

| Component      | Btuh/ft² | Btuh         | % of load    |
|----------------|----------|--------------|--------------|
| Walls          | 2.7      | 3365         | 16.1         |
| Glazing        | 10.2     | 1679         | 8.1          |
| Doors          | 0        | 0            | 0            |
| Ceilings       | 0.8      | 986          | 4.7          |
| Floors         | 4.6      | 5784         | 27.7         |
| Infiltration   | 3.3      | 4732         | 22.7         |
| Ducts          |          | 4299         | 20.6         |
| Piping         |          | 0            | 0            |
| Humidification |          | 0            | 0            |
| Ventilation    |          | 0            | 0            |
| Adjustments    |          | 0            | 0            |
| <b>Total</b>   |          | <b>20845</b> | <b>100.0</b> |



## Cooling

| Component      | Btuh/ft² | Btuh         | % of load    |
|----------------|----------|--------------|--------------|
| Walls          | 1.4      | 1724         | 16.1         |
| Glazing        | 17.3     | 2843         | 26.6         |
| Doors          | 0        | 0            | 0            |
| Ceilings       | 0.5      | 574          | 5.4          |
| Floors         | 0        | 0            | 0            |
| Infiltration   | 0.8      | 1168         | 10.9         |
| Ducts          |          | 2630         | 24.6         |
| Ventilation    |          | 0            | 0            |
| Internal gains |          | 1750         | 16.4         |
| Blower         |          | 0            | 0            |
| Adjustments    |          | 0            | 0            |
| <b>Total</b>   |          | <b>10689</b> | <b>100.0</b> |



Latent Cooling Load = 4901 Btuh  
Overall U-value = 0.077 Btuh/ft²-°F, Window / Floor Area = 13.0 %

Data entries checked.





# Building Analysis AHU-3 Second LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

### Location:

Pensacola NAS, FL, US  
Elevation: 28 ft  
Latitude: 30°N

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

29  
-  
15.0

### Cooling

93  
14 ( L )  
79  
7.5

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

70  
41  
50  
36.2

### Cooling

75  
18  
50  
60.8

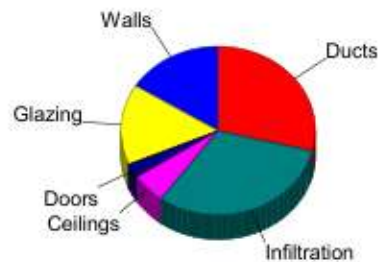
### Infiltration:

Method  
Shielding / stories  
Pressure /ACH /AVF

Blower door  
3 (partial) / 2  
50 Pa / 4.5 / 3572 cfm

## Heating

| Component      | Btuh/ft² | Btuh         | % of load    |
|----------------|----------|--------------|--------------|
| Walls          | 2.1      | 2208         | 16.1         |
| Glazing        | 10.2     | 2117         | 15.4         |
| Doors          | 16.0     | 383          | 2.8          |
| Ceilings       | 0.8      | 784          | 5.7          |
| Floors         | 0        | 0            | 0            |
| Infiltration   | 3.3      | 4269         | 31.1         |
| Ducts          |          | 3966         | 28.9         |
| Piping         |          | 0            | 0            |
| Humidification |          | 0            | 0            |
| Ventilation    |          | 0            | 0            |
| Adjustments    |          | 0            | 0            |
| <b>Total</b>   |          | <b>13726</b> | <b>100.0</b> |



## Cooling

| Component      | Btuh/ft² | Btuh         | % of load    |
|----------------|----------|--------------|--------------|
| Walls          | 1.1      | 1156         | 10.6         |
| Glazing        | 17.3     | 3581         | 32.9         |
| Doors          | 12.5     | 301          | 2.8          |
| Ceilings       | 0.5      | 456          | 4.2          |
| Floors         | 0        | 0            | 0            |
| Infiltration   | 0.8      | 1054         | 9.7          |
| Ducts          |          | 2444         | 22.4         |
| Ventilation    |          | 0            | 0            |
| Internal gains |          | 1900         | 17.4         |
| Blower         |          | 0            | 0            |
| Adjustments    |          | 0            | 0            |
| <b>Total</b>   |          | <b>10893</b> | <b>100.0</b> |



Latent Cooling Load = 4392 Btuh

Overall U-value = 0.064 Btuh/ft²-°F, Window / Floor Area = 20.6 %

ERROR: negative wall area in Den - check windows.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 3



# Component Constructions

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

|                       |                |                             |                        |                |                |
|-----------------------|----------------|-----------------------------|------------------------|----------------|----------------|
| <b>Location:</b>      |                | <b>Indoor:</b>              |                        | <b>Heating</b> | <b>Cooling</b> |
| Pensacola NAS, FL, US |                | Indoor temperature (°F)     |                        | 70             | 75             |
| Elevation: 28 ft      |                | Design TD (°F)              |                        | 41             | 18             |
| Latitude: 30°N        |                | Relative humidity (%)       |                        | 50             | 50             |
|                       |                | Moisture difference (gr/lb) |                        | 36.2           | 60.8           |
| <b>Outdoor:</b>       | <b>Heating</b> | <b>Cooling</b>              |                        |                |                |
| Dry bulb (°F)         | 29             | 93                          |                        |                |                |
| Daily range (°F)      | -              | 14 ( L )                    |                        |                |                |
| Wet bulb (°F)         | -              | 79                          |                        |                |                |
| Wind speed (mph)      | 15.0           | 7.5                         |                        |                |                |
|                       |                | <b>Infiltration:</b>        |                        |                |                |
|                       |                | Method                      | Blower door            |                |                |
|                       |                | Shielding / stories         | 3 (partial) / 2        |                |                |
|                       |                | Pressure / ACH / AVF        | 50 Pa / 4.5 / 3572 cfm |                |                |

## Construction descriptions

|                     | Or  | Area<br>ft² | U-value<br>Btu/h·ft²·°F | Insul R<br>ft²·h/Btu | Htg HTM<br>Btu/h·ft² | Loss<br>Btu/h | Clg HTM<br>Btu/h·ft² | Gain<br>Btu/h |
|---------------------|-----|-------------|-------------------------|----------------------|----------------------|---------------|----------------------|---------------|
| <b>Walls</b>        |     |             |                         |                      |                      |               |                      |               |
| 2x6 R-27 spray foam | ne  | 304         | 0.065                   | 27.0                 | 2.66                 | 808           | 1.36                 | 414           |
|                     | se  | 321         | 0.065                   | 27.0                 | 2.66                 | 853           | 1.36                 | 437           |
|                     | sw  | 327         | 0.065                   | 27.0                 | 2.66                 | 870           | 1.36                 | 446           |
|                     | w   | 27          | 0.065                   | 27.0                 | 2.66                 | 73            | 1.36                 | 37            |
|                     | nw  | 423         | 0.065                   | 27.0                 | 2.66                 | 1125          | 1.36                 | 576           |
|                     | all | 1402        | 0.065                   | 27.0                 | 2.66                 | 3728          | 1.36                 | 1910          |

## Partitions

|                       |  |     |       |      |      |      |      |     |
|-----------------------|--|-----|-------|------|------|------|------|-----|
| Frame Wall 2 x 4 R-11 |  | 558 | 0.101 | 11.0 | 4.14 | 2312 | 1.75 | 975 |
|-----------------------|--|-----|-------|------|------|------|------|-----|

## Windows

|                                                                                                                                                                                                    |     |     |       |   |      |      |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------|---|------|------|------|------|
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (5.5 ft window ht, 16.45 ft sep.); 7 ft head ht | ne  | 16  | 0.250 | 0 | 10.2 | 169  | 17.8 | 294  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (7 ft window ht, 0.5 ft sep.); 7 ft head ht     | ne  | 18  | 0.250 | 0 | 10.2 | 179  | 17.8 | 312  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = new concrete (0.32); 10.5 ft overhang (7.5 ft window ht, 3 ft sep.); 7 ft head ht   | ne  | 45  | 0.250 | 0 | 10.2 | 460  | 25.8 | 1163 |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = new concrete (0.32); 10.5 ft overhang (8 ft window ht, 3 ft sep.); 7 ft head ht     | ne  | 24  | 0.250 | 0 | 10.2 | 245  | 25.8 | 620  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (2 ft window ht, 1.5 ft sep.); 7 ft head ht     | se  | 7   | 0.250 | 0 | 10.2 | 72   | 14.4 | 101  |
|                                                                                                                                                                                                    | sw  | 36  | 0.250 | 0 | 10.2 | 368  | 14.4 | 520  |
|                                                                                                                                                                                                    | all | 43  | 0.250 | 0 | 10.2 | 440  | 14.4 | 621  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (7.5 ft window ht, 3.5 ft sep.); 7 ft head ht   | se  | 26  | 0.250 | 0 | 10.2 | 268  | 18.8 | 493  |
|                                                                                                                                                                                                    | sw  | 135 | 0.250 | 0 | 10.2 | 1380 | 18.8 | 2535 |
|                                                                                                                                                                                                    | all | 161 | 0.250 | 0 | 10.2 | 1649 | 18.8 | 3028 |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = new concrete (0.32); 30 ft overhang (8 ft window ht, 2.67 ft sep.); 7 ft head ht    | se  | 24  | 0.250 | 0 | 10.2 | 245  | 17.6 | 422  |



MiTek  
WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 1

|                                                                                                                                                                                                   |     |      |       |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------|------|------|------|------|------|
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (7.5 ft window ht, 1.15 ft sep.); 7 ft head ht | sw  | 15   | 0.250 | 0    | 10.2 | 153  | 17.2 | 258  |
|                                                                                                                                                                                                   | w   | 15   | 0.250 | 0    | 10.2 | 153  | 23.0 | 345  |
|                                                                                                                                                                                                   | nw  | 60   | 0.250 | 0    | 10.2 | 614  | 17.8 | 1071 |
|                                                                                                                                                                                                   | all | 90   | 0.250 | 0    | 10.2 | 920  | 18.6 | 1674 |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = new concrete (0.32); 20.5 ft overhang (2 ft window ht, 0.67 ft sep.); 7 ft head ht | sw  | 21   | 0.250 | 0    | 10.2 | 215  | 17.6 | 370  |
|                                                                                                                                                                                                   | sw  | 79   | 0.250 | 0    | 10.2 | 805  | 17.6 | 1386 |
|                                                                                                                                                                                                   | sw  | 30   | 0.250 | 0    | 10.2 | 307  | 17.6 | 528  |
|                                                                                                                                                                                                   | all | 109  | 0.250 | 0    | 10.2 | 1112 | 17.6 | 1914 |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = new concrete (0.32); 20.5 ft overhang (8 ft window ht, 2.67 ft sep.); 7 ft head ht | sw  | 24   | 0.250 | 0    | 10.2 | 245  | 17.6 | 422  |
|                                                                                                                                                                                                   | nw  | 45   | 0.250 | 0    | 10.2 | 460  | 17.8 | 803  |
|                                                                                                                                                                                                   | sw  | 24   | 0.250 | 0    | 10.2 | 245  | 17.6 | 422  |
|                                                                                                                                                                                                   | all | 109  | 0.250 | 0    | 10.2 | 1112 | 17.6 | 1914 |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (7.5 ft window ht, 15 ft sep.); 7 ft head ht   | nw  | 45   | 0.250 | 0    | 10.2 | 460  | 17.8 | 803  |
|                                                                                                                                                                                                   | sw  | 24   | 0.250 | 0    | 10.2 | 245  | 17.6 | 422  |
|                                                                                                                                                                                                   | all | 109  | 0.250 | 0    | 10.2 | 1112 | 17.6 | 1914 |
|                                                                                                                                                                                                   | sw  | 24   | 0.250 | 0    | 10.2 | 245  | 17.6 | 422  |
| <b>Doors</b>                                                                                                                                                                                      |     |      |       |      |      |      |      |      |
| Door, wd sc type: Solid wood                                                                                                                                                                      | n   | 24   | 0.390 | 0    | 16.0 | 383  | 12.5 | 301  |
| <b>Ceilings</b>                                                                                                                                                                                   |     |      |       |      |      |      |      |      |
| Shingle R-38 spray foam                                                                                                                                                                           |     | 1162 | 0.032 | 38.0 | 0.78 | 904  | 0.45 | 526  |
| <b>Floors</b>                                                                                                                                                                                     |     |      |       |      |      |      |      |      |
| Slab on grade                                                                                                                                                                                     |     | 234  | 0.989 | 0    | 40.5 | 9472 | 0    | 0    |



# Component Constructions

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

|                       |                |                             |                      |                        |                |
|-----------------------|----------------|-----------------------------|----------------------|------------------------|----------------|
| <b>Location:</b>      |                | <b>Indoor:</b>              |                      | <b>Heating</b>         | <b>Cooling</b> |
| Pensacola NAS, FL, US |                | Indoor temperature (°F)     |                      | 70                     | 75             |
| Elevation: 28 ft      |                | Design TD (°F)              |                      | 41                     | 18             |
| Latitude: 30°N        |                | Relative humidity (%)       |                      | 50                     | 50             |
|                       |                | Moisture difference (gr/lb) |                      | 36.2                   | 60.8           |
| <b>Outdoor:</b>       | <b>Heating</b> | <b>Cooling</b>              | <b>Infiltration:</b> |                        |                |
| Dry bulb (°F)         | 29             | 93                          | Method               |                        |                |
| Daily range (°F)      | -              | 14 ( L )                    | Blower door          |                        |                |
| Wet bulb (°F)         | -              | 79                          | Shielding / stories  |                        |                |
| Wind speed (mph)      | 15.0           | 7.5                         | Pressure / ACH / AVF |                        |                |
|                       |                |                             |                      | 3 (partial) / 2        |                |
|                       |                |                             |                      | 50 Pa / 4.5 / 3572 cfm |                |

## Construction descriptions

|                                     | Or  | Area<br>ft² | U-value<br>Btu/h·ft²·°F | Insul R<br>ft²·°F/Btu | Htg HTM<br>Btu/h·ft² | Loss<br>Btu/h | Clg HTM<br>Btu/h·ft² | Gain<br>Btu/h |
|-------------------------------------|-----|-------------|-------------------------|-----------------------|----------------------|---------------|----------------------|---------------|
| <b>Walls</b><br>2x6 R-27 spray foam | ne  | 202         | 0.065                   | 27.0                  | 2.66                 | 536           | 1.36                 | 274           |
|                                     | se  | 6           | 0.065                   | 27.0                  | 2.66                 | 16            | 1.36                 | 8             |
|                                     | sw  | 220         | 0.065                   | 27.0                  | 2.66                 | 586           | 1.36                 | 300           |
|                                     | nw  | 311         | 0.065                   | 27.0                  | 2.66                 | 827           | 1.36                 | 424           |
|                                     | all | 739         | 0.065                   | 27.0                  | 2.66                 | 1965          | 1.36                 | 1006          |
| Knee wall                           | se  | 320         | 0.026                   | 38.0                  | 0.76                 | 244           | 0.47                 | 150           |

## Partitions

(none)

## Windows

|                                                                                                                                                                                                  |     |    |       |   |      |     |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-------|---|------|-----|------|------|
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; 1.5 ft overhang (6 ft window ht, 1.5 ft sep.); 7 ft head ht                                    | ne  | 42 | 0.250 | 0 | 10.2 | 429 | 15.8 | 665  |
|                                                                                                                                                                                                  | ne  | 22 | 0.250 | 0 | 10.2 | 220 | 15.8 | 341  |
|                                                                                                                                                                                                  | nw  | 21 | 0.250 | 0 | 10.2 | 215 | 15.8 | 333  |
|                                                                                                                                                                                                  | all | 84 | 0.250 | 0 | 10.2 | 864 | 15.8 | 1339 |
|                                                                                                                                                                                                  | ne  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (3 ft window ht, 1.5 ft sep.); 7 ft head ht   |     |    |       |   |      |     |      |      |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (7 ft window ht, 4.5 ft sep.); 7 ft head ht   | ne  | 21 | 0.250 | 0 | 10.2 | 215 | 17.8 | 375  |
|                                                                                                                                                                                                  | sw  | 18 | 0.250 | 0 | 10.2 | 179 | 16.1 | 282  |
|                                                                                                                                                                                                  | sw  | 36 | 0.250 | 0 | 10.2 | 368 | 16.1 | 580  |
|                                                                                                                                                                                                  | sw  | 21 | 0.250 | 0 | 10.2 | 215 | 16.1 | 338  |
|                                                                                                                                                                                                  | all | 74 | 0.250 | 0 | 10.2 | 762 | 16.1 | 1199 |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; 1.5 ft overhang (6 ft window ht, 2 ft sep.); 7 ft head ht                                      | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 15.8 | 143  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (4.5 ft window ht, 1.5 ft sep.); 7 ft head ht |     |    |       |   |      |     |      |      |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (4.5 ft window ht, 1.5 ft sep.); 7 ft head ht | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |
|                                                                                                                                                                                                  | nw  | 9  | 0.250 | 0 | 10.2 | 92  | 17.8 | 161  |

## Doors

|                              |    |    |       |   |      |     |      |     |
|------------------------------|----|----|-------|---|------|-----|------|-----|
| Door, wd sc type: Solid wood | se | 24 | 0.390 | 0 | 16.0 | 383 | 12.5 | 301 |
|------------------------------|----|----|-------|---|------|-----|------|-----|



**Ceilings**

|                         |      |       |      |      |     |      |     |
|-------------------------|------|-------|------|------|-----|------|-----|
| Shingle R-38 spray foam | 1007 | 0.032 | 38.0 | 0.78 | 784 | 0.45 | 456 |
|-------------------------|------|-------|------|------|-----|------|-----|

**Floors**  
(none)



# Component Constructions

## AHU-2 Master/BR2

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

|                       |                |                             |                        |                |                |
|-----------------------|----------------|-----------------------------|------------------------|----------------|----------------|
| <b>Location:</b>      |                | <b>Indoor:</b>              |                        | <b>Heating</b> | <b>Cooling</b> |
| Pensacola NAS, FL, US |                | Indoor temperature (°F)     |                        | 70             | 75             |
| Elevation: 28 ft      |                | Design TD (°F)              |                        | 41             | 18             |
| Latitude: 30°N        |                | Relative humidity (%)       |                        | 50             | 50             |
|                       |                | Moisture difference (gr/lb) |                        | 36.2           | 60.8           |
| <b>Outdoor:</b>       | <b>Heating</b> | <b>Cooling</b>              |                        |                |                |
| Dry bulb (°F)         | 29             | 93                          |                        |                |                |
| Daily range (°F)      | -              | 14 ( L )                    |                        |                |                |
| Wet bulb (°F)         | -              | 79                          |                        |                |                |
| Wind speed (mph)      | 15.0           | 7.5                         |                        |                |                |
|                       |                | <b>Infiltration:</b>        |                        |                |                |
|                       |                | Method                      | Blower door            |                |                |
|                       |                | Shielding / stories         | 3 (partial) / 2        |                |                |
|                       |                | Pressure /ACH /AVF          | 50 Pa / 4.5 / 3572 cfm |                |                |

## Construction descriptions

|                     | Or  | Area<br>ft² | U-value<br>Btu/h·ft²·°F | Insul R<br>ft²·h/Btu | Htg HTM<br>Btu/h·ft² | Loss<br>Btu/h | Clg HTM<br>Btu/h·ft² | Gain<br>Btu/h |
|---------------------|-----|-------------|-------------------------|----------------------|----------------------|---------------|----------------------|---------------|
| <b>Walls</b>        |     |             |                         |                      |                      |               |                      |               |
| 2x6 R-27 spray foam | ne  | 124         | 0.065                   | 27.0                 | 2.66                 | 330           | 1.36                 | 169           |
|                     | se  | 766         | 0.065                   | 27.0                 | 2.66                 | 2037          | 1.36                 | 1043          |
|                     | sw  | 103         | 0.065                   | 27.0                 | 2.66                 | 274           | 1.36                 | 140           |
|                     | nw  | 273         | 0.065                   | 27.0                 | 2.66                 | 725           | 1.36                 | 371           |
|                     | all | 1266        | 0.065                   | 27.0                 | 2.66                 | 3365          | 1.36                 | 1724          |

## Partitions

(none)

## Windows

|                                                                                                                                                                                                   |     |    |       |   |      |     |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-------|---|------|-----|------|------|
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (7 ft window ht, 1.15 ft sep.); 7 ft head ht   | ne  | 56 | 0.250 | 0 | 10.2 | 573 | 17.8 | 999  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (1.5 ft window ht, 2 ft sep.); 7 ft head ht    | se  | 3  | 0.250 | 0 | 10.2 | 31  | 16.1 | 48   |
|                                                                                                                                                                                                   | se  | 4  | 0.250 | 0 | 10.2 | 46  | 16.1 | 72   |
|                                                                                                                                                                                                   | se  | 6  | 0.250 | 0 | 10.2 | 61  | 16.1 | 96   |
|                                                                                                                                                                                                   | all | 14 | 0.250 | 0 | 10.2 | 138 | 16.1 | 217  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (4 ft window ht, 2 ft sep.); 7 ft head ht      | se  | 8  | 0.250 | 0 | 10.2 | 82  | 17.8 | 142  |
| Double pane low-e vinyl: Double pane low-e vinyl; NFRC rated (SHGC=0.20); 50% blinds 45°, medium; foreground = green grass (0.23); 1.5 ft overhang (6.5 ft window ht, 1.15 ft sep.); 7 ft head ht | se  | 17 | 0.250 | 0 | 10.2 | 177 | 17.0 | 294  |
|                                                                                                                                                                                                   | sw  | 52 | 0.250 | 0 | 10.2 | 532 | 17.0 | 881  |
|                                                                                                                                                                                                   | nw  | 17 | 0.250 | 0 | 10.2 | 177 | 17.8 | 309  |
|                                                                                                                                                                                                   | all | 87 | 0.250 | 0 | 10.2 | 886 | 17.1 | 1485 |

## Doors

(none)

## Ceilings

|                         |      |       |      |      |     |      |     |
|-------------------------|------|-------|------|------|-----|------|-----|
| Shingle R-38 spray foam | 1267 | 0.032 | 38.0 | 0.78 | 986 | 0.45 | 574 |
|-------------------------|------|-------|------|------|-----|------|-----|

## Floors

|               |     |       |   |      |      |   |   |
|---------------|-----|-------|---|------|------|---|---|
| Slab on grade | 143 | 0.989 | 0 | 40.5 | 5784 | 0 | 0 |
|---------------|-----|-------|---|------|------|---|---|



Mitek  
WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 5



**MiTek**  
**WRIGHTSOFT**

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36

Page 6



# Project Summary

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

Notes:

## Design Information

Weather: Pensacola NAS, FL, US

### Winter Design Conditions

Outside db 29 °F  
Inside db 70 °F  
Design TD 41 °F

Ventilation Method ASHRAE 62.2-2013

### Heating Summary

Structure 29831 Btuh  
Ducts (R-6.0) 4958 Btuh  
Central vent (SER=71% 90 cfm) 1173 Btuh  
Energy recovery  
Humidification 0 Btuh  
Piping 0 Btuh  
Equipment load 35962 Btuh

### Infiltration

Method Blower door  
Shielding / stories 3 (partial) / 2  
Pressure / ACH / AVF 50 Pa / 4.5 / 3572 cfm

|                  | Heating | Cooling |
|------------------|---------|---------|
| Area (ft²)       | 2142    | 2142    |
| Volume (ft³)     | 24580   | 24580   |
| Air changes/hour | 0.36    | 0.21    |
| Equiv. AVF (cfm) | 149     | 84      |

### Heating Equipment Summary

Make Ruud  
Trade RUUD  
Model RP1542AJ1NA  
AHRI ref 7512350

Efficiency 9 HSPF  
Heating input  
Heating output 40000 Btuh @ 47°F  
Temperature rise 23 °F  
Actual air flow 1597 cfm  
Air flow factor 0.046 cfm/Btuh  
Static pressure 0.60 in H2O  
Space thermostat  
Capacity balance point = 28 °F

Backup: Ruud RXBH-1724A18J  
Input = 17 kW, Output = 58006 Btuh, 100 AFUE

### Summer Design Conditions

Outside db 93 °F  
Inside db 75 °F  
Design TD 18 °F  
Daily range L  
Relative humidity 50 %  
Moisture difference 61 gr/lb

### Sensible Cooling Equipment Load Sizing

Structure 23773 Btuh  
Ducts (R-6.0) 2323 Btuh  
Central vent (SER=56% 90 cfm) 775 Btuh  
Energy recovery  
Blower 0 Btuh  
Use manufacturer's data y  
Rate/swing multiplier 1.00  
Equipment sensible load 26871 Btuh

### Latent Cooling Equipment Load Sizing

Structure 4491 Btuh  
Ducts 1262 Btuh  
Central vent (LER=56% 90 cfm) 1637 Btuh  
Energy recovery  
Equipment latent load 7390 Btuh

Equipment Total Load (Sen+Lat) 34260 Btuh  
Req. total capacity at 0.80 SHR 2.8 ton

### Cooling Equipment Summary

Make Ruud  
Trade RUUD  
Cond RP1542AJ1NA  
Coil RH1T4821STANJAUSA  
AHRI ref 7512350  
Efficiency 12.5 EER, 15 SEER  
Sensible cooling 34000 Btuh  
Latent cooling 8500 Btuh  
Total cooling 42500 Btuh  
Actual air flow 1597 cfm  
Air flow factor 0.061 cfm/Btuh  
Static pressure 0.60 in H2O  
Load sensible heat ratio 0.78

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Project Summary

## AHU-2 Master/BR2

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

Notes:

## Design Information

Weather: Pensacola NAS, FL, US

### Winter Design Conditions

Outside db 29 °F  
Inside db 70 °F  
Design TD 41 °F

Ventilation Method ASHRAE 62.2-2013

### Heating Summary

Structure 16546 Btuh  
Ducts (R-6.0) 4299 Btuh  
Central vent (0 cfm) 0 Btuh  
  
Humidification 0 Btuh  
Piping 0 Btuh  
Equipment load 20845 Btuh

### Infiltration

Method Blower door  
Shielding / stories 3 (partial) / 2  
Pressure / ACH / AVF 50 Pa / 4.5 / 3572 cfm

|                  | Heating | Cooling |
|------------------|---------|---------|
| Area (ft²)       | 1267    | 1267    |
| Volume (ft³)     | 12668   | 12668   |
| Air changes/hour | 0.50    | 0.28    |
| Equiv. AVF (cfm) | 105     | 60      |

### Heating Equipment Summary

Make Ruud  
Trade RUUD  
Model RP1518BJ1NA  
AHRI ref 201663836  
  
Efficiency 9 HSPF  
Heating input 15700 Btuh @ 47°F  
Heating output 23 °F  
Temperature rise 623 cfm  
Actual air flow 0.030 cfm/Btuh  
Air flow factor 0.60 in H2O  
Static pressure  
Space thermostat  
Capacity balance point = 38 °F  
Backup: Ruud RXBH-1424?07  
Input = 7 kW, Output = 24567 Btuh, 100 AFUE

### Summer Design Conditions

Outside db 93 °F  
Inside db 75 °F  
Design TD 18 °F  
Daily range L  
Relative humidity 50 %  
Moisture difference 61 gr/lb

### Sensible Cooling Equipment Load Sizing

Structure 8059 Btuh  
Ducts (R-6.0) 2630 Btuh  
Central vent (0 cfm) 0 Btuh  
  
Blower 0 Btuh  
  
Use manufacturer's data y  
Rate/swing multiplier 1.00  
Equipment sensible load 10689 Btuh

### Latent Cooling Equipment Load Sizing

Structure 2468 Btuh  
Ducts 2432 Btuh  
Central vent (0 cfm) 0 Btuh  
  
Equipment latent load 4901 Btuh  
  
Equipment Total Load (Sen+Lat) 15589 Btuh  
Req. total capacity at 0.80 SHR 1.1 ton

### Cooling Equipment Summary

Make Ruud  
Trade RUUD  
Cond RP1518BJ1NA  
Coil RH1T2417STANAA  
AHRI ref 201663836  
Efficiency 13.0 EER, 16 SEER  
Sensible cooling 14800 Btuh  
Latent cooling 3700 Btuh  
Total cooling 18500 Btuh  
Actual air flow 623 cfm  
Air flow factor 0.058 cfm/Btuh  
Static pressure 0.60 in H2O  
Load sensible heat ratio 0.69

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Project Summary

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

Notes:

## Design Information

Weather: Pensacola NAS, FL, US

### Winter Design Conditions

Outside db 29 °F  
Inside db 70 °F  
Design TD 41 °F

Ventilation Method ASHRAE 62.2-2013

### Heating Summary

Structure 9760 Btuh  
Ducts (R-6.0) 3966 Btuh  
Central vent (0 cfm) 0 Btuh  
  
Humidification 0 Btuh  
Piping 0 Btuh  
Equipment load 13726 Btuh

### Infiltration

Method Blower door  
Shielding / stories 3 (partial) / 2  
Pressure / ACH / AVF 50 Pa / 4.5 / 3572 cfm

|                  | Heating | Cooling |
|------------------|---------|---------|
| Area (ft²)       | 1007    | 1007    |
| Volume (ft³)     | 10382   | 10382   |
| Air changes/hour | 0.55    | 0.31    |
| Equiv. AVF (cfm) | 95      | 54      |

### Heating Equipment Summary

Make Ruud  
Trade RUUD  
Model RP1518BJ1NA  
AHRI ref 201663836  
  
Efficiency 9 HSPF  
Heating input 15700 Btuh @ 47°F  
Heating output 23 °F  
Temperature rise 620 cfm  
Actual air flow 0.045 cfm/Btuh  
Air flow factor 0.60 in H2O  
Static pressure  
Space thermostat  
Capacity balance point = 28 °F  
Backup: Ruud RXBH-1424?05  
Input = 5 kW, Output = 16378 Btuh, 100 AFUE

### Summer Design Conditions

Outside db 93 °F  
Inside db 75 °F  
Design TD 18 °F  
Daily range L  
Relative humidity 50 %  
Moisture difference 61 gr/lb

### Sensible Cooling Equipment Load Sizing

Structure 8449 Btuh  
Ducts (R-6.0) 2444 Btuh  
Central vent (0 cfm) 0 Btuh  
  
Blower 0 Btuh  
  
Use manufacturer's data y  
Rate/swing multiplier 1.00  
Equipment sensible load 10893 Btuh

### Latent Cooling Equipment Load Sizing

Structure 2227 Btuh  
Ducts 2165 Btuh  
Central vent (0 cfm) 0 Btuh  
  
Equipment latent load 4392 Btuh  
  
Equipment Total Load (Sen+Lat) 15285 Btuh  
Req. total capacity at 0.80 SHR 1.1 ton

### Cooling Equipment Summary

Make Ruud  
Trade RUUD  
Cond RP1518BJ1NA  
Coil RH1T2417STANAA  
AHRI ref 201663836  
Efficiency 13.0 EER, 16 SEER  
Sensible cooling 14800 Btuh  
Latent cooling 3700 Btuh  
Total cooling 18500 Btuh  
Actual air flow 620 cfm  
Air flow factor 0.057 cfm/Btuh  
Static pressure 0.60 in H2O  
Load sensible heat ratio 0.71

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|    |                          |                      |                        |       |                 |                  |                              |       |              |       |                              |       |              |      |     |
|----|--------------------------|----------------------|------------------------|-------|-----------------|------------------|------------------------------|-------|--------------|-------|------------------------------|-------|--------------|------|-----|
| 1  | Room name                |                      |                        |       |                 | AHU-1 Main       |                              |       |              |       | Bar                          |       |              |      |     |
| 2  | Exposed wall             |                      |                        |       |                 | 11.5 ft          |                              |       |              |       | 13.5 ft                      |       |              |      |     |
| 3  | Room height              |                      |                        |       |                 | 234.2 ft         |                              |       |              |       | 10.0 ft                      |       |              |      |     |
| 4  | Room dimensions          |                      |                        |       |                 | 2142.5 ft²       |                              |       |              |       | 1.0 x 76.2 ft                |       |              |      |     |
| 5  | Room area                |                      |                        |       |                 | 2142.5 ft²       |                              |       |              |       | 76.2 ft²                     |       |              |      |     |
|    | Ty                       | Construction number  | U-value (Btu/h·ft²·°F) | Or    | HTM (Btu/h·ft²) |                  | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |       | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|    |                          |                      |                        |       | Heat            | Cool             | Gross                        | N/P/S | Heat         | Cool  | Gross                        | N/P/S | Heat         | Cool |     |
| 6  | W                        | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36             | 407                          | 304   | 808          | 414   | 105                          | 88    | 235          | 121  |     |
| 11 | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85            | 16                           | 0     | 169          | 294   | 16                           | 0     | 169          | 294  |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85            | 18                           | 0     | 179          | 312   | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 25.85            | 45                           | 0     | 460          | 1163  | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 25.85            | 24                           | 0     | 245          | 620   | 0                            | 0     | 0            | 0    |     |
|    | W                        | 2x6 R-27 spray foam  | 0.065                  | se    | 2.66            | 1.36             | 378                          | 321   | 853          | 437   | 30                           | 30    | 80           | 41   |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 14.44           | 7                | 7                            | 72    | 101          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 18.78           | 26               | 0                            | 268   | 493          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 17.60           | 24               | 48                           | 245   | 422          | 0     | 0                            | 0     | 0            |      |     |
| D  | Door, wd sc type         | 0.390                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| W  | Knee wall                | 0.026                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | sw                     | 2.66  | 1.36            | 667              | 327                          | 870   | 446          | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 14.44           | 36               | 34                           | 368   | 520          | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.20           | 15               | 5                            | 153   | 258          | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 18.78           | 135              | 0                            | 1380  | 2535         | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 21               | 42                           | 215   | 370          | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 79               | 158                          | 805   | 1386         | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 30               | 60                           | 307   | 528          | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 24               | 48                           | 245   | 422          | 0     | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | w                      | 2.66  | 1.36            | 42               | 27                           | 73    | 37           | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | w                      | 10.23 | 23.00           | 15               | 0                            | 153   | 345          | 0     | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | nw                     | 2.66  | 1.36            | 528              | 423                          | 1125  | 576          | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 17.85           | 60               | 0                            | 614   | 1071         | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 17.85           | 45               | 0                            | 460   | 803          | 0     | 0                            | 0     | 0            | 0    |     |
| P  | Frame Wall 2 x 4 R-1     | 0.101                | -                      | 4.14  | 1.75            | 582              | 558                          | 2312  | 975          | 0     | 0                            | 0     | 0            | 0    |     |
| D  | Door, wd sc type         | 0.390                | n                      | 15.95 | 12.54           | 24               | 24                           | 383   | 301          | 0     | 0                            | 0     | 0            | 0    |     |
| C  | Shingle R-38 spray f     | 0.032                | -                      | 0.78  | 0.45            | 1162             | 1162                         | 904   | 526          | 13    | 13                           | 10    | 6            | 6    |     |
| F  | Slab on grade            | 0.989                | -                      | 40.45 | 0.00            | 2142             | 234                          | 9472  | 0            | 76    | 14                           | 546   | 0            | 0    |     |
| 6  | c) AED excursion         |                      |                        |       |                 |                  |                              |       |              | 1715  |                              |       |              | 44   |     |
|    | Envelope loss/gain       |                      |                        |       |                 |                  |                              |       | 23138        | 17071 |                              |       | 1040         | 505  |     |
| 12 | a) Infiltration          |                      |                        |       |                 |                  |                              |       | 6692         | 1652  |                              |       | 447          | 110  |     |
|    | b) Room ventilation      |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
| 13 | Internal gains:          |                      |                        |       |                 | Occupants @      | 230                          | 5     |              | 1150  | 0                            |       |              | 0    |     |
|    |                          |                      |                        |       |                 | Appliances/other |                              |       |              | 3900  |                              |       |              | 0    |     |
|    | Subtotal (lines 6 to 13) |                      |                        |       |                 |                  |                              |       | 29831        | 23773 |                              |       | 1487         | 616  |     |
|    | Less external load       |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
|    | Less transfer            |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
|    | Redistribution           |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
| 14 | Subtotal                 |                      |                        |       |                 |                  |                              |       | 29831        | 23773 |                              |       | 1487         | 616  |     |
| 15 | Duct loads               |                      |                        |       |                 |                  |                              | 17%   | 10%          | 4958  | 2323                         | -0%   | 0%           | 0    | 0   |
|    | Total room load          |                      |                        |       |                 |                  |                              |       |              | 34789 | 26096                        |       |              | 1487 | 616 |
|    | Air required (cfm)       |                      |                        |       |                 |                  |                              |       |              | 1597  | 1597                         |       |              | 68   | 38  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 1



# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

| 1       | Room name                |                      |                           |       |                    | Bonus<br>51.0 ft                |                                 |       |                 |      | Breakfast<br>22.0 ft            |       |                 |      |      |
|---------|--------------------------|----------------------|---------------------------|-------|--------------------|---------------------------------|---------------------------------|-------|-----------------|------|---------------------------------|-------|-----------------|------|------|
| 2       | Exposed wall             |                      |                           |       |                    | 12.0 ft                         |                                 |       |                 |      | 12.0 ft                         |       |                 |      |      |
| 3       | Room height              |                      |                           |       |                    | heat/cool                       |                                 |       |                 |      | heat/cool                       |       |                 |      |      |
| 4       | Room dimensions          |                      |                           |       |                    | 13.0 x 19.0 ft                  |                                 |       |                 |      | 15.0 x 13.0 ft                  |       |                 |      |      |
| 5       | Room area                |                      |                           |       |                    | 247.0 ft²                       |                                 |       |                 |      | 195.0 ft²                       |       |                 |      |      |
|         | Ty                       | Construction number  | U-value<br>(Btu/h/ft²·°F) | Or    | HTM<br>(Btu/h/ft²) |                                 | Area (ft²)<br>or perimeter (ft) |       | Load<br>(Btu/h) |      | Area (ft²)<br>or perimeter (ft) |       | Load<br>(Btu/h) |      |      |
|         |                          |                      |                           |       | Heat               | Cool                            | Gross                           | N/P/S | Heat            | Cool | Gross                           | N/P/S | Heat            | Cool |      |
| 6<br>11 | W                        | 2x6 R-27 spray foam  | 0.065                     | ne    | 2.66               | 1.36                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 10.23              | 17.85                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 10.23              | 17.85                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 10.23              | 25.85                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | ne    | 10.23              | 25.85                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | W                        | 2x6 R-27 spray foam  | 0.065                     | se    | 2.66               | 1.36                            | 228                             | 204   | 542             | 278  | 84                              | 51    | 135             | 69   |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 10.23              | 14.44                           | 0                               | 0     | 0               | 0    | 7                               | 3     | 72              | 101  |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 10.23              | 18.78                           | 0                               | 0     | 0               | 0    | 26                              | 0     | 268             | 493  |      |
|         | G                        | Double pane low-e vi | 0.250                     | se    | 10.23              | 17.60                           | 24                              | 24    | 245             | 422  | 0                               | 0     | 0               | 0    |      |
|         | D                        | Door, wd sc type     | 0.390                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | W                        | Knee wall            | 0.026                     | se    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | W                        | 2x6 R-27 spray foam  | 0.065                     | sw    | 2.66               | 1.36                            | 156                             | 70    | 187             | 96   | 180                             | 80    | 213             | 109  |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 14.44                           | 18                              | 9     | 184             | 260  | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 17.20                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 18.78                           | 68                              | 0     | 690             | 1268 | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 17.60                           | 0                               | 0     | 0               | 0    | 21                              | 21    | 215             | 370  |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 17.60                           | 0                               | 0     | 0               | 0    | 79                              | 79    | 805             | 1386 |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 17.60                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | sw    | 10.23              | 17.60                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | W                        | 2x6 R-27 spray foam  | 0.065                     | w     | 2.66               | 1.36                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | w     | 10.23              | 23.00                           | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | W                        | 2x6 R-27 spray foam  | 0.065                     | nw    | 2.66               | 1.36                            | 156                             | 156   | 415             | 212  | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | nw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | nw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | nw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
|         | G                        | Double pane low-e vi | 0.250                     | nw    | 0.00               | 0.00                            | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |      |
| G       | Double pane low-e vi     | 0.250                | nw                        | 10.23 | 17.85              | 0                               | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |      |
| G       | Double pane low-e vi     | 0.250                | nw                        | 10.23 | 17.85              | 0                               | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |      |
| P       | Frame Wall 2 x 4 R-1     | 0.101                | -                         | 4.14  | 1.75               | 72                              | 72                              | 298   | 126             | 0    | 0                               | 0     | 0               |      |      |
| D       | Door, wd sc type         | 0.390                | n                         | 15.95 | 12.54              | 0                               | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |      |
| C       | Shingle R-38 spray f     | 0.032                | -                         | 0.78  | 0.45               | 247                             | 247                             | 192   | 112             | 195  | 195                             | 152   | 88              |      |      |
| F       | Slab on grade            | 0.989                | -                         | 40.45 | 0.00               | 247                             | 51                              | 2063  | 0               | 195  | 22                              | 890   | 0               |      |      |
|         |                          |                      |                           |       |                    |                                 |                                 |       |                 |      |                                 |       |                 |      |      |
|         |                          |                      |                           |       |                    |                                 |                                 |       |                 |      |                                 |       |                 |      |      |
|         |                          |                      |                           |       |                    |                                 |                                 |       |                 |      |                                 |       |                 |      |      |
| 6       | c) AED excursion         |                      |                           |       |                    |                                 |                                 |       | 375             |      |                                 |       | -17             |      |      |
|         | Envelope loss/gain       |                      |                           |       |                    |                                 |                                 |       | 4818            | 3149 |                                 |       | 2750            | 2600 |      |
| 12      | a) Infiltration          |                      |                           |       |                    |                                 |                                 |       | 1787            | 441  |                                 |       | 874             | 216  |      |
|         | b) Room ventilation      |                      |                           |       |                    |                                 |                                 |       | 0               | 0    |                                 |       | 0               | 0    |      |
| 13      | Internal gains:          |                      |                           |       |                    | Occupants @<br>Appliances/other | 230                             | 0     |                 | 0    | 0                               |       | 0               | 0    |      |
|         | Subtotal (lines 6 to 13) |                      |                           |       |                    |                                 |                                 |       | 6604            | 3590 |                                 |       | 3623            | 2815 |      |
|         | Less external load       |                      |                           |       |                    |                                 |                                 |       | 0               | 0    |                                 |       | 0               | 0    |      |
|         | Less transfer            |                      |                           |       |                    |                                 |                                 |       | 0               | 0    |                                 |       | 0               | 0    |      |
|         | Redistribution           |                      |                           |       |                    |                                 |                                 |       | 0               | 0    |                                 |       | 0               | 0    |      |
| 14      | Subtotal                 |                      |                           |       |                    |                                 |                                 |       | 6604            | 3590 |                                 |       | 3623            | 2815 |      |
| 15      | Duct loads               |                      |                           |       |                    |                                 |                                 | 25%   | 19%             | 1624 | 679                             | 25%   | 19%             | 891  | 532  |
|         | Total room load          |                      |                           |       |                    |                                 |                                 |       |                 | 8229 | 4269                            |       |                 | 4515 | 3348 |
|         | Air required (cfm)       |                      |                           |       |                    |                                 |                                 |       |                 | 378  | 261                             |       |                 | 207  | 205  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 2



# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

| 1                        | Room name            |                      |                           |                  | Dining<br>28.5 ft  |       |                                 |       | Foyer<br>10.5 ft |      |                                 |       |                 |      |      |     |     |     |     |  |
|--------------------------|----------------------|----------------------|---------------------------|------------------|--------------------|-------|---------------------------------|-------|------------------|------|---------------------------------|-------|-----------------|------|------|-----|-----|-----|-----|--|
| 2                        | Exposed wall         |                      |                           |                  | 12.0 ft            |       |                                 |       | 12.0 ft          |      |                                 |       |                 |      |      |     |     |     |     |  |
| 3                        | Room height          |                      |                           |                  | heat/cool          |       |                                 |       | heat/cool        |      |                                 |       |                 |      |      |     |     |     |     |  |
| 4                        | Room dimensions      |                      |                           |                  | 13.5 x 15.0 ft     |       |                                 |       | 7.5 x 20.5 ft    |      |                                 |       |                 |      |      |     |     |     |     |  |
| 5                        | Room area            |                      |                           |                  | 202.5 ft²          |       |                                 |       | 153.8 ft²        |      |                                 |       |                 |      |      |     |     |     |     |  |
|                          | Ty                   | Construction number  | U-value<br>(Btu/h·ft²·°F) | Or               | HTM<br>(Btu/h·ft²) |       | Area (ft²)<br>or perimeter (ft) |       | Load<br>(Btu/h)  |      | Area (ft²)<br>or perimeter (ft) |       | Load<br>(Btu/h) |      |      |     |     |     |     |  |
|                          |                      |                      |                           |                  | Heat               | Cool  | Gross                           | N/P/S | Heat             | Cool | Gross                           | N/P/S | Heat            | Cool |      |     |     |     |     |  |
| 6                        | W                    | 2x6 R-27 spray foam  | 0.065                     | ne               | 2.66               | 1.36  | 162                             | 117   | 311              | 159  | 90                              | 66    | 175             | 90   |      |     |     |     |     |  |
| 11                       | G                    | Double pane low-e vi | 0.250                     | ne               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 10.23              | 17.85 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 10.23              | 17.85 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 10.23              | 25.85 | 45                              | 0     | 460              | 1163 | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | ne               | 10.23              | 25.85 | 0                               | 0     | 0                | 0    | 24                              | 0     | 245             | 620  |      |     |     |     |     |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                     | se               | 2.66               | 1.36  | 0                               | 0     | 0                | 0    | 36                              | 36    | 96              | 49   |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 10.23              | 14.44 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 10.23              | 18.78 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | se               | 10.23              | 17.60 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | D                    | Door, wd sc type     | 0.390                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | W                    | Knee wall            | 0.026                     | se               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                     | sw               | 2.66               | 1.36  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 14.44 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 17.20 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 18.78 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 17.60 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 17.60 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 17.60 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | sw               | 10.23              | 17.60 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                     | w                | 2.66               | 1.36  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
| G                        | Double pane low-e vi | 0.250                | w                         | 10.23            | 23.00              | 0     | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               |      |      |     |     |     |     |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                     | nw               | 2.66               | 1.36  | 180                             | 135   | 359              | 184  | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | nw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | nw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | nw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | nw               | 0.00               | 0.00  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | nw               | 10.23              | 17.85 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | G                    | Double pane low-e vi | 0.250                     | nw               | 10.23              | 17.85 | 45                              | 0     | 460              | 803  | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | P                    | Frame Wall 2 x 4 R-1 | 0.101                     | -                | 4.14               | 1.75  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | D                    | Door, wd sc type     | 0.390                     | n                | 15.95              | 12.54 | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | C                    | Shingle R-38 spray f | 0.032                     | -                | 0.78               | 0.45  | 0                               | 0     | 0                | 0    | 0                               | 0     | 0               | 0    |      |     |     |     |     |  |
|                          | F                    | Slab on grade        | 0.989                     | -                | 40.45              | 0.00  | 202                             | 28    | 1153             | 0    | 154                             | 10    | 425             | 0    |      |     |     |     |     |  |
|                          |                      |                      |                           |                  |                    |       |                                 |       |                  |      |                                 |       |                 |      |      |     |     |     |     |  |
|                          |                      |                      |                           |                  |                    |       |                                 |       |                  |      |                                 |       |                 |      |      |     |     |     |     |  |
|                          |                      |                      |                           |                  |                    |       |                                 |       |                  |      |                                 |       |                 |      |      |     |     |     |     |  |
| 6                        | c) AED excursion     |                      |                           |                  |                    |       |                                 |       | 16               |      |                                 |       | -27             |      |      |     |     |     |     |  |
| Envelope loss/gain       |                      |                      |                           |                  |                    |       |                                 | 2743  |                  |      |                                 | 2325  |                 | 941  |      | 732 |     |     |     |  |
| 12                       | a) Infiltration      |                      |                           |                  |                    |       |                                 |       | 1132             |      |                                 |       | 279             |      | 417  |     | 103 |     |     |  |
| b) Room ventilation      |                      |                      |                           |                  |                    |       |                                 | 0     |                  |      |                                 | 0     |                 | 0    |      | 0   |     |     |     |  |
| 13                       | Internal gains:      |                      | Occupants @               | 230              | 0                  |       |                                 |       | 0                |      |                                 |       | 0               |      | 0    |     | 0   |     |     |  |
|                          |                      |                      |                           | Appliances/other |                    |       |                                 |       | 0                |      |                                 |       |                 |      | 0    |     | 0   |     |     |  |
| Subtotal (lines 6 to 13) |                      |                      |                           |                  |                    |       |                                 | 3875  |                  |      |                                 | 2604  |                 | 1358 |      |     |     | 835 |     |  |
| 14                       | Less external load   |                      |                           |                  |                    |       |                                 |       | 0                |      |                                 |       | 0               |      | 0    |     |     |     | 0   |  |
|                          | Less transfer        |                      |                           |                  |                    |       |                                 |       | 0                |      |                                 |       | 0               |      | 0    |     |     |     | 0   |  |
|                          | Redistribution       |                      |                           |                  |                    |       |                                 |       | 0                |      |                                 |       | 0               |      | 0    |     |     |     | 0   |  |
|                          | Subtotal             |                      |                           |                  |                    |       |                                 |       | 3875             |      |                                 |       | 2604            |      | 1358 |     |     |     | 835 |  |
| 15                       | Duct loads           |                      |                           |                  |                    |       |                                 |       | -0%              |      |                                 |       | 0%              |      | 0    |     |     |     | 0   |  |
| Total room load          |                      |                      |                           |                  |                    |       |                                 | 3875  |                  |      |                                 | 2604  |                 | 1358 |      |     |     | 835 |     |  |
| Air required (cfm)       |                      |                      |                           |                  |                    |       |                                 | 178   |                  |      |                                 | 159   |                 | 62   |      |     |     | 51  |     |  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 3



# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|                          |                      |                      |                        |       |                  |                   |                              |       |              |          |                              |       |              |      |  |
|--------------------------|----------------------|----------------------|------------------------|-------|------------------|-------------------|------------------------------|-------|--------------|----------|------------------------------|-------|--------------|------|--|
| 1                        | Room name            |                      |                        |       |                  | H Bath<br>10.0 ft |                              |       |              |          | H Clos<br>14.5 ft            |       |              |      |  |
| 2                        | Exposed wall         |                      |                        |       |                  | 10.0 ft           |                              |       |              |          | 10.0 ft                      |       |              |      |  |
| 3                        | Room height          |                      |                        |       |                  | 10.0 x 6.5 ft     |                              |       |              |          | 6.0 x 9.0 ft                 |       |              |      |  |
| 4                        | Room dimensions      |                      |                        |       |                  | 65.0 ft²          |                              |       |              |          | 54.0 ft²                     |       |              |      |  |
| 5                        | Room area            |                      |                        |       |                  |                   |                              |       |              |          |                              |       |              |      |  |
|                          | Ty                   | Construction number  | U-value (Btu/h·ft²·°F) | Or    | HTM (Btu/h·ft²)  |                   | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |          | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |  |
|                          |                      |                      |                        |       | Heat             | Cool              | Gross                        | N/P/S | Heat         | Cool     | Gross                        | N/P/S | Heat         | Cool |  |
| 6                        | W                    | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66             | 1.36              | 0                            | 0     | 0            | 0        | 50                           | 32    | 86           | 44   |  |
| 11                       | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 17.85             | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 17.85             | 0                            | 0     | 0            | 0        | 18                           | 0     | 179          | 312  |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00              | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 25.85             | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 25.85             | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            | 0    |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | se                     | 2.66  | 1.36             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 10.23 | 14.44            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 10.23 | 18.78            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | se                     | 10.23 | 17.60            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| D                        | Door, wd sc type     | 0.390                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| W                        | Knee wall            | 0.026                | se                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | sw                     | 2.66  | 1.36             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 14.44            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.20            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 18.78            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | w                      | 2.66  | 1.36             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | w                      | 10.23 | 23.00            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | nw                     | 2.66  | 1.36             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 10.23 | 17.85            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 10.23 | 17.85            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                      | 4.14  | 1.75             | 100               | 100                          | 414   | 175          | 95       | 95                           | 394   | 166          |      |  |
| D                        | Door, wd sc type     | 0.390                | n                      | 15.95 | 12.54            | 0                 | 0                            | 0     | 0            | 0        | 0                            | 0     | 0            |      |  |
| C                        | Shingle R-38 spray f | 0.032                | -                      | 0.78  | 0.45             | 65                | 65                           | 51    | 29           | 50       | 50                           | 39    | 22           |      |  |
| F                        | Slab on grade        | 0.989                | -                      | 40.45 | 0.00             | 65                | 10                           | 405   | 0            | 54       | 14                           | 587   | 0            |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              |          |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              |          |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              |          |                              |       |              |      |  |
| 6                        | c) AED excursion     |                      |                        |       |                  |                   |                              |       |              |          | -6                           |       |              |      |  |
| Envelope loss/gain       |                      |                      |                        |       |                  |                   |                              |       |              | 869 198  |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              | 1284 531 |                              |       |              |      |  |
| 12                       | a) Infiltration      |                      |                        |       |                  |                   |                              |       |              |          | 0 0                          |       |              |      |  |
| b) Room ventilation      |                      |                      |                        |       |                  |                   |                              |       |              | 165 41   |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              | 0 0      |                              |       |              |      |  |
| 13                       | Internal gains:      |                      |                        |       |                  | Occupants @ 230   |                              |       |              |          | 0 0                          |       |              |      |  |
|                          |                      |                      |                        |       | Appliances/other |                   |                              |       |              | 0 0      |                              |       |              |      |  |
| Subtotal (lines 6 to 13) |                      |                      |                        |       |                  |                   |                              |       |              | 869 198  |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              | 1449 572 |                              |       |              |      |  |
| Less external load       |                      |                      |                        |       |                  |                   |                              |       |              | 0 0      |                              |       |              |      |  |
| Less transfer            |                      |                      |                        |       |                  |                   |                              |       |              | 0 0      |                              |       |              |      |  |
| Redistribution           |                      |                      |                        |       |                  |                   |                              |       |              | 0 0      |                              |       |              |      |  |
| 14                       | Subtotal             |                      |                        |       |                  |                   |                              |       |              |          | 869 198                      |       |              |      |  |
| 15                       | Duct loads           |                      |                        |       |                  | 25% 19%           |                              |       |              |          | 214 37                       |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              | 25% 19%  |                              |       |              |      |  |
| Total room load          |                      |                      |                        |       |                  |                   |                              |       |              | 1083 235 |                              |       |              |      |  |
| Air required (cfm)       |                      |                      |                        |       |                  |                   |                              |       |              | 50 14    |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              | 1806 680 |                              |       |              |      |  |
|                          |                      |                      |                        |       |                  |                   |                              |       |              | 83 42    |                              |       |              |      |  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644



# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

| 1                        | Room name            |                      |                        |       |                 | Hall<br>25.5 ft                  |                              |       |              |      | Kitchen<br>6.0 ft                |       |              |      |  |
|--------------------------|----------------------|----------------------|------------------------|-------|-----------------|----------------------------------|------------------------------|-------|--------------|------|----------------------------------|-------|--------------|------|--|
| 2                        | Exposed wall         |                      |                        |       |                 | 10.0 ft 1.0 x 181.0 ft heat/cool |                              |       |              |      | 12.0 ft 1.0 x 254.8 ft heat/cool |       |              |      |  |
| 3                        | Room height          |                      |                        |       |                 |                                  |                              |       |              |      |                                  |       |              |      |  |
| 4                        | Room dimensions      |                      |                        |       |                 |                                  |                              |       |              |      |                                  |       |              |      |  |
| 5                        | Room area            |                      |                        |       |                 | 181.0 ft²                        |                              |       |              |      | 254.8 ft²                        |       |              |      |  |
|                          | Ty                   | Construction number  | U-value (Btu/h·ft²·°F) | Or    | HTM (Btu/h·ft²) |                                  | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft)     |       | Load (Btu/h) |      |  |
|                          |                      |                      |                        |       | Heat            | Cool                             | Gross                        | N/P/S | Heat         | Cool | Gross                            | N/P/S | Heat         | Cool |  |
| 6<br>11                  | W                    | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23           | 25.85                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23           | 25.85                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                  | se    | 2.66            | 1.36                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 14.44                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 18.78                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 17.60                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | D                    | Door, wd sc type     | 0.390                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | W                    | Knee wall            | 0.026                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                  | sw    | 2.66            | 1.36                             | 135                          | 81    | 215          | 110  | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 14.44                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 17.20                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 18.78                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 17.60                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 17.60                            | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 17.60                            | 30                           | 30    | 307          | 528  | 0                                | 0     | 0            | 0    |  |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 17.60                            | 24                           | 24    | 245          | 422  | 0                                | 0     | 0            | 0    |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | w                      | 2.66  | 1.36            | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | w                      | 10.23 | 23.00           | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | nw                     | 2.66  | 1.36            | 0                                | 0                            | 0     | 0            | 72   | 72                               | 191   | 98           |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 10.23 | 17.85           | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                     | 10.23 | 17.85           | 0                                | 0                            | 0     | 0            | 0    | 0                                | 0     | 0            |      |  |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                      | 4.14  | 1.75            | 120                              | 96                           | 398   | 168          | 0    | 0                                | 0     | 0            |      |  |
| D                        | Door, wd sc type     | 0.390                | n                      | 15.95 | 12.54           | 24                               | 24                           | 383   | 301          | 0    | 0                                | 0     | 0            |      |  |
| C                        | Shingle R-38 spray f | 0.032                | -                      | 0.78  | 0.45            | 178                              | 178                          | 139   | 81           | 20   | 20                               | 16    | 9            |      |  |
| F                        | Slab on grade        | 0.989                | -                      | 40.45 | 0.00            | 181                              | 26                           | 1031  | 0            | 255  | 6                                | 243   | 0            |      |  |
|                          |                      |                      |                        |       |                 |                                  |                              |       |              |      |                                  |       |              |      |  |
|                          |                      |                      |                        |       |                 |                                  |                              |       |              |      |                                  |       |              |      |  |
|                          |                      |                      |                        |       |                 |                                  |                              |       |              |      |                                  |       |              |      |  |
| 6                        | c) AED excursion     |                      |                        |       |                 |                                  |                              |       | 321          |      |                                  |       | -90          |      |  |
| Envelope loss/gain       |                      |                      |                        |       |                 |                                  |                              | 2718  | 1931         |      |                                  | 450   | 17           |      |  |
| 12                       | a) Infiltration      |                      |                        |       |                 |                                  |                              |       | 447          | 110  |                                  |       | 238          | 59   |  |
| b) Room ventilation      |                      |                      |                        |       |                 |                                  |                              | 0     | 0            |      |                                  | 0     | 0            |      |  |
| 13                       | Internal gains:      |                      | Occupants @            | 230   |                 | 0                                |                              |       | 0            | 0    | 1                                |       | 230          | 2500 |  |
| Appliances/other         |                      |                      |                        |       |                 |                                  |                              |       | 0            |      |                                  |       |              |      |  |
| Subtotal (lines 6 to 13) |                      |                      |                        |       |                 |                                  |                              | 3165  | 2041         |      |                                  | 688   | 2806         |      |  |
| Less external load       |                      |                      |                        |       |                 |                                  |                              | 0     | 0            |      |                                  | 0     | 0            |      |  |
| Less transfer            |                      |                      |                        |       |                 |                                  |                              | 0     | 0            |      |                                  | 0     | 0            |      |  |
| Redistribution           |                      |                      |                        |       |                 |                                  |                              | 0     | 0            |      |                                  | 0     | 0            |      |  |
| 14                       | Subtotal             |                      |                        |       |                 |                                  |                              |       | 3165         | 2041 |                                  |       | 688          | 2806 |  |
| 15                       | Duct loads           |                      |                        |       |                 |                                  | 25%                          | 19%   | 778          | 386  | -0%                              | 0%    | 0            | 0    |  |
| Total room load          |                      |                      |                        |       |                 |                                  |                              |       | 3944         | 2427 |                                  |       | 688          | 2806 |  |
| Air required (cfm)       |                      |                      |                        |       |                 |                                  |                              |       | 181          | 149  |                                  |       | 32           | 172  |  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 5



# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|                          |                      |                      |                        |       |                  |                |                              |       |              |      |                              |       |              |      |     |
|--------------------------|----------------------|----------------------|------------------------|-------|------------------|----------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|-----|
| 1                        | Room name            |                      |                        |       |                  | Living Room    |                              |       |              |      | MHall                        |       |              |      |     |
| 2                        | Exposed wall         |                      |                        |       |                  | 13.0 ft        |                              |       |              |      | 20.2 ft                      |       |              |      |     |
| 3                        | Room height          |                      |                        |       |                  | 12.0 ft        |                              |       |              |      | 10.0 ft                      |       |              |      |     |
| 4                        | Room dimensions      |                      |                        |       |                  | 1.0 x 488.5 ft |                              |       |              |      | 1.0 x 95.5 ft                |       |              |      |     |
| 5                        | Room area            |                      |                        |       |                  | 488.5 ft²      |                              |       |              |      | 95.5 ft²                     |       |              |      |     |
|                          | Ty                   | Construction number  | U-value (Btu/h/ft²·°F) | Or    | HTM (Btu/h/ft²)  |                | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|                          |                      |                      |                        |       | Heat             | Cool           | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |     |
| 6                        | W                    | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66             | 1.36           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| 11                       | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 17.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 17.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00             | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 25.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23            | 25.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | se                     | 2.66  | 1.36             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 10.23 | 14.44            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 10.23 | 18.78            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                     | 10.23 | 17.60            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| D                        | Door, wd sc type     | 0.390                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | Knee wall            | 0.026                | se                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | sw                     | 2.66  | 1.36             | 156            | 70                           | 187   | 96           | 40   | 25                           | 66    | 34           |      |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 14.44            | 18             | 9                            | 184   | 260          | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.20            | 0              | 0                            | 0     | 0            | 15   | 3                            | 153   | 258          |      |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 18.78            | 68             | 0                            | 690   | 1268         | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                     | 10.23 | 17.60            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | w                      | 2.66  | 1.36             | 0              | 0                            | 0     | 0            | 42   | 27                           | 73    | 37           |      |     |
| G                        | Double pane low-e vi | 0.250                | w                      | 10.23 | 23.00            | 0              | 0                            | 0     | 0            | 15   | 0                            | 153   | 345          |      |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | nw                     | 2.66  | 1.36             | 0              | 0                            | 0     | 0            | 120  | 60                           | 160   | 82           |      |     |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                     | 10.23 | 17.85            | 0              | 0                            | 0     | 0            | 60   | 0                            | 614   | 1071         |      |     |
| G                        | Double pane low-e vi | 0.250                | nw                     | 10.23 | 17.85            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                      | 4.14  | 1.75             | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| D                        | Door, wd sc type     | 0.390                | n                      | 15.95 | 12.54            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| C                        | Shingle R-38 spray f | 0.032                | -                      | 0.78  | 0.45             | 204            | 204                          | 159   | 93           | 96   | 96                           | 74    | 43           |      |     |
| F                        | Slab on grade        | 0.989                | -                      | 40.45 | 0.00             | 488            | 13                           | 526   | 0            | 96   | 20                           | 816   | 0            |      |     |
|                          |                      |                      |                        |       |                  |                |                              |       |              |      |                              |       |              |      |     |
|                          |                      |                      |                        |       |                  |                |                              |       |              |      |                              |       |              |      |     |
| 6                        | c) AED excursion     |                      |                        |       |                  |                |                              |       | 479          |      |                              |       | 662          |      |     |
| Envelope loss/gain       |                      |                      |                        |       |                  |                |                              | 1746  | 2196         |      |                              | 2109  | 2532         |      |     |
| 12                       | a) Infiltration      |                      |                        |       |                  |                |                              |       | 516          | 127  |                              |       | 670          | 165  |     |
| b) Room ventilation      |                      |                      |                        |       |                  |                |                              | 0     | 0            |      |                              | 0     | 0            |      |     |
| 13                       | Internal gains:      |                      |                        |       |                  | Occupants @    | 230                          | 4     |              | 920  | 0                            |       | 0            | 0    |     |
|                          |                      |                      |                        |       | Appliances/other |                |                              |       | 900          |      |                              |       | 0            | 0    |     |
| Subtotal (lines 6 to 13) |                      |                      |                        |       |                  |                |                              | 2263  | 4143         |      |                              | 2779  | 2698         |      |     |
| Less external load       |                      |                      |                        |       |                  |                |                              | 0     | 0            |      |                              | 0     | 0            |      |     |
| Less transfer            |                      |                      |                        |       |                  |                |                              | 0     | 0            |      |                              | 0     | 0            |      |     |
| Redistribution           |                      |                      |                        |       |                  |                |                              | 0     | 0            |      |                              | 0     | 0            |      |     |
| 14                       | Subtotal             |                      |                        |       |                  |                |                              |       | 2263         | 4143 |                              |       | 2779         | 2698 |     |
| 15                       | Duct loads           |                      |                        |       |                  |                |                              | -0%   | 0%           | 0    | 0                            | 25%   | 19%          | 683  | 510 |
| Total room load          |                      |                      |                        |       |                  |                |                              |       | 2263         | 4143 |                              |       | 3462         | 3208 |     |
| Air required (cfm)       |                      |                      |                        |       |                  |                |                              |       | 104          | 254  |                              |       | 159          | 196  |     |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 6



# Right-J® Worksheet

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

| 1  | Room name                |                      |                        |       |                 | Office<br>19.5 ft |                              |       |              |      | Pantry<br>0 ft               |       |              |      |  |
|----|--------------------------|----------------------|------------------------|-------|-----------------|-------------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|--|
| 2  | Exposed wall             |                      |                        |       |                 | 10.0 ft           |                              |       |              |      | 12.0 ft                      |       |              |      |  |
| 3  | Room height              |                      |                        |       |                 | 8.5 x 11.0 ft     |                              |       |              |      | 6.5 x 5.5 ft                 |       |              |      |  |
| 4  | Room dimensions          |                      |                        |       |                 | 93.5 ft²          |                              |       |              |      | 35.8 ft²                     |       |              |      |  |
| 5  | Room area                |                      |                        |       |                 |                   |                              |       |              |      |                              |       |              |      |  |
|    | Ty                       | Construction number  | U-value (Btu/h·ft²·°F) | Or    | HTM (Btu/h·ft²) |                   | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |  |
|    |                          |                      |                        |       | Heat            | Cool              | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |  |
| 6  | W                        | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| 11 | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 25.85             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 25.85             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| W  | 2x6 R-27 spray foam      | 0.065                | se                     | 2.66  | 1.36            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 14.44           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 18.78           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 17.60           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |  |
| D  | Door, wd sc type         | 0.390                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| W  | Knee wall                | 0.026                | se                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| W  | 2x6 R-27 spray foam      | 0.065                | sw                     | 2.66  | 1.36            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 14.44           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.20           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 18.78           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 17.60           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| W  | 2x6 R-27 spray foam      | 0.065                | w                      | 2.66  | 1.36            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | w                      | 10.23 | 23.00           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| W  | 2x6 R-27 spray foam      | 0.065                | nw                     | 2.66  | 1.36            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 17.85           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 17.85           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| P  | Frame Wall 2 x 4 R-1     | 0.101                | -                      | 4.14  | 1.75            | 195               | 195                          | 808   | 341          | 0    | 0                            | 0     | 0            | 0    |  |
| D  | Door, wd sc type         | 0.390                | n                      | 15.95 | 12.54           | 0                 | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| C  | Shingle R-38 spray f     | 0.032                | -                      | 0.78  | 0.45            | 94                | 94                           | 73    | 42           | 0    | 0                            | 0     | 0            | 0    |  |
| F  | Slab on grade            | 0.989                | -                      | 40.45 | 0.00            | 94                | 20                           | 789   | 0            | 36   | 0                            | 0     | 0            | 0    |  |
| 6  | c) AED excursion         |                      |                        |       |                 |                   |                              |       |              | -12  |                              |       |              | -16  |  |
|    | Envelope loss/gain       |                      |                        |       |                 |                   |                              |       | 1669         | 371  |                              |       | 0            | -16  |  |
| 12 | a) Infiltration          |                      |                        |       |                 |                   |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
|    | b) Room ventilation      |                      |                        |       |                 |                   |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
| 13 | Internal gains:          |                      | Occupants @            | 230   |                 | 0                 |                              |       | 0            | 0    |                              |       | 0            | 500  |  |
|    |                          |                      | Appliances/other       |       |                 |                   |                              |       | 0            |      |                              |       |              |      |  |
|    | Subtotal (lines 6 to 13) |                      |                        |       |                 |                   |                              |       | 1669         | 371  |                              |       | 0            | 484  |  |
|    | Less external load       |                      |                        |       |                 |                   |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
|    | Less transfer            |                      |                        |       |                 |                   |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
|    | Redistribution           |                      |                        |       |                 |                   |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
| 14 | Subtotal                 |                      |                        |       |                 |                   |                              |       | 1669         | 371  |                              |       | 0            | 484  |  |
| 15 | Duct loads               |                      |                        |       |                 | 25%               | 19%                          |       | 411          | 70   | -0%                          | 0%    | 0            | 0    |  |
|    | Total room load          |                      |                        |       |                 |                   |                              |       | 2080         | 441  |                              |       | 0            | 484  |  |
|    | Air required (cfm)       |                      |                        |       |                 |                   |                              |       | 95           | 27   |                              |       | 0            | 30   |  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Mitek  
WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 7



# Right-J® Worksheet

## AHU-2 Master/BR2

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

|         |                          |                      |                        |       |                 |                  |                              |       |              |       |                              |       |              |      |     |
|---------|--------------------------|----------------------|------------------------|-------|-----------------|------------------|------------------------------|-------|--------------|-------|------------------------------|-------|--------------|------|-----|
| 1       | Room name                |                      |                        |       |                 | AHU-2 Master/BR2 |                              |       |              |       | Bath 2                       |       |              |      |     |
| 2       | Exposed wall             |                      |                        |       |                 | 143.0 ft         |                              |       |              |       | 6.0 ft                       |       |              |      |     |
| 3       | Room height              |                      |                        |       |                 | 10.0 ft          |                              |       |              |       | 10.0 ft                      |       |              |      |     |
| 4       | Room dimensions          |                      |                        |       |                 | 1266.8 ft²       |                              |       |              |       | 9.5 x 6.0 ft                 |       |              |      |     |
| 5       | Room area                |                      |                        |       |                 |                  |                              |       |              |       | 57.0 ft²                     |       |              |      |     |
|         | Ty                       | Construction number  | U-value (Btu/h/ft²·°F) | Or    | HTM (Btu/h/ft²) |                  | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |       | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|         |                          |                      |                        |       | Heat            | Cool             | Gross                        | N/P/S | Heat         | Cool  | Gross                        | N/P/S | Heat         | Cool |     |
| 6<br>11 | W                        | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36             | 180                          | 124   | 330          | 169   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85            | 56                           | 0     | 573          | 999   | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    | 0   |
|         | W                        | 2x6 R-27 spray foam  | 0.065                  | se    | 2.66            | 1.36             | 805                          | 766   | 2037         | 1043  | 60                           | 56    | 148          | 76   |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.06            | 3                            | 2     | 31           | 48    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.06            | 4                            | 3     | 46           | 72    | 4                            | 1     | 46           | 72   |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.06            | 6                            | 4     | 61           | 96    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 10.23           | 17.76            | 8                            | 2     | 82           | 142   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.95            | 17                           | 7     | 177          | 294   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | D                        | Door, wd sc type     | 0.390                  | se    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    | 0   |
|         | W                        | Knee wall            | 0.026                  | se    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    | 0   |
|         | W                        | 2x6 R-27 spray foam  | 0.065                  | sw    | 2.66            | 1.36             | 155                          | 103   | 274          | 140   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 10.23           | 16.95            | 52                           | 21    | 532          | 881   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | W                        | 2x6 R-27 spray foam  | 0.065                  | w     | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | w     | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | W                        | 2x6 R-27 spray foam  | 0.065                  | nw    | 2.66            | 1.36             | 290                          | 273   | 725          | 371   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | nw    | 10.23           | 17.85            | 17                           | 0     | 177          | 309   | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G       | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| P       | Frame Wall 2 x 4 R-1     | 0.101                | -                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| D       | Door, wd sc type         | 0.390                | n                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| C       | Shingle R-38 spray f     | 0.032                | -                      | 0.78  | 0.45            | 1267             | 1267                         | 986   | 574          | 57    | 57                           | 44    | 26           |      |     |
| F       | Slab on grade            | 0.989                | -                      | 40.45 | 0.00            | 1267             | 143                          | 5784  | 0            | 57    | 6                            | 243   | 0            |      |     |
| 6       | c) AED excursion         |                      |                        |       |                 |                  |                              |       |              | 0     |                              |       |              | 12   |     |
|         | Envelope loss/gain       |                      |                        |       |                 |                  |                              |       | 11814        | 5140  |                              |       | 481          | 185  |     |
| 12      | a) Infiltration          |                      |                        |       |                 |                  |                              |       | 4732         | 1168  |                              |       | 199          | 49   |     |
|         | b) Room ventilation      |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
| 13      | Internal gains:          |                      |                        |       |                 | Occupants @      | 230                          | 0     |              | 0     | 0                            |       | 0            | 0    |     |
|         |                          |                      |                        |       |                 | Appliances/other |                              |       |              | 1750  |                              |       | 250          |      |     |
|         | Subtotal (lines 6 to 13) |                      |                        |       |                 |                  |                              |       | 16546        | 8059  |                              |       | 679          | 484  |     |
|         | Less external load       |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
|         | Less transfer            |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
|         | Redistribution           |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 5            | 3    |     |
| 14      | Subtotal                 |                      |                        |       |                 |                  |                              |       | 16546        | 8059  |                              |       | 684          | 487  |     |
| 15      | Duct loads               |                      |                        |       |                 |                  |                              | 26%   | 33%          | 4299  | 2630                         | 26%   | 33%          | 178  | 159 |
|         | Total room load          |                      |                        |       |                 |                  |                              |       |              | 20845 | 10689                        |       |              | 862  | 646 |
|         | Air required (cfm)       |                      |                        |       |                 |                  |                              |       |              | 623   | 623                          |       |              | 26   | 38  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Right-J® Worksheet AHU-2 Master/BR2 LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|    |                          |                      |                        |       |                 |                  |                              |       |              |      |                              |       |              |      |     |
|----|--------------------------|----------------------|------------------------|-------|-----------------|------------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|-----|
| 1  | Room name                |                      |                        |       |                 | Bedroom 2        |                              |       |              |      | Clos 2                       |       |              |      |     |
| 2  | Exposed wall             |                      |                        |       |                 | 40.5 ft          |                              |       |              |      | 4.5 ft                       |       |              |      |     |
| 3  | Room height              |                      |                        |       |                 | 10.0 ft          |                              |       |              |      | 10.0 ft                      |       |              |      |     |
| 4  | Room dimensions          |                      |                        |       |                 | 1.0 x 211.2 ft   |                              |       |              |      | 4.5 x 6.5 ft                 |       |              |      |     |
| 5  | Room area                |                      |                        |       |                 | 211.2 ft²        |                              |       |              |      | 29.2 ft²                     |       |              |      |     |
|    | Ty                       | Construction number  | U-value (Btu/h/ft²·°F) | Or    | HTM (Btu/h/ft²) |                  | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|    |                          |                      |                        |       | Heat            | Cool             | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |     |
| 6  | W                        | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36             | 135                          | 79    | 210          | 108  | 45                           | 45    | 120          | 61   |     |
| 11 | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85            | 56                           | 0     | 573          | 999  | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | se                     | 2.66  | 1.36            | 150              | 150                          | 399   | 204          | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 16.06           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 16.06           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 16.06           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 17.76           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 10.23 | 16.95           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| D  | Door, wd sc type         | 0.390                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W  | Knee wall                | 0.026                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | sw                     | 2.66  | 1.36            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 16.95           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | w                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | w                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | nw                     | 2.66  | 1.36            | 120              | 120                          | 319   | 163          | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 17.85           | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| P  | Frame Wall 2 x 4 R-1     | 0.101                | -                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| D  | Door, wd sc type         | 0.390                | n                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| C  | Shingle R-38 spray f     | 0.032                | -                      | 0.78  | 0.45            | 211              | 211                          | 164   | 96           | 29   | 29                           | 23    | 13           |      |     |
| F  | Slab on grade            | 0.989                | -                      | 40.45 | 0.00            | 211              | 40                           | 1638  | 0            | 29   | 4                            | 182   | 0            |      |     |
| 6  | c) AED excursion         |                      |                        |       |                 |                  |                              |       |              | -67  |                              |       |              | -25  |     |
|    | Envelope loss/gain       |                      |                        |       |                 |                  |                              |       | 3303         | 1503 |                              |       | 324          | 50   |     |
| 12 | a) Infiltration          |                      |                        |       |                 |                  |                              |       | 1340         | 331  |                              |       | 149          | 37   |     |
|    | b) Room ventilation      |                      |                        |       |                 |                  |                              |       | 0            | 0    |                              |       | 0            | 0    |     |
| 13 | Internal gains:          |                      |                        |       |                 | Occupants @      | 230                          | 0     |              | 0    | 0                            |       | 0            | 0    |     |
|    |                          |                      |                        |       |                 | Appliances/other |                              |       |              | 0    |                              |       | 250          |      |     |
|    | Subtotal (lines 6 to 13) |                      |                        |       |                 |                  |                              |       | 4643         | 1834 |                              |       | 473          | 337  |     |
|    | Less external load       |                      |                        |       |                 |                  |                              |       | 0            | 0    |                              |       | 0            | 0    |     |
|    | Less transfer            |                      |                        |       |                 |                  |                              |       | 0            | 0    |                              |       | 0            | 0    |     |
|    | Redistribution           |                      |                        |       |                 |                  |                              |       | 8            | 4    |                              |       | 9            | 5    |     |
| 14 | Subtotal                 |                      |                        |       |                 |                  |                              |       | 4651         | 1838 |                              |       | 483          | 342  |     |
| 15 | Duct loads               |                      |                        |       |                 |                  |                              | 26%   | 33%          | 1209 | 600                          | 26%   | 33%          | 125  | 111 |
|    | Total room load          |                      |                        |       |                 |                  |                              |       |              | 5860 | 2438                         |       |              | 608  | 453 |
|    | Air required (cfm)       |                      |                        |       |                 |                  |                              |       |              | 175  | 142                          |       |              | 18   | 26  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Right-J® Worksheet AHU-2 Master/BR2 LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

| 1                        | Room name            |                      |                        |       |                 | MBath<br>12.5 ft                 |                              |       |              |      | MBedroom<br>54.5 ft          |       |              |      |      |      |      |      |
|--------------------------|----------------------|----------------------|------------------------|-------|-----------------|----------------------------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|------|------|------|------|
| 2                        | Exposed wall         |                      |                        |       |                 | 10.0 ft                          |                              |       |              |      | 10.0 ft                      |       |              |      |      |      |      |      |
| 3                        | Room height          |                      |                        |       |                 | 1.0                              |                              |       |              |      | 1.0                          |       |              |      |      |      |      |      |
| 4                        | Room dimensions      |                      |                        |       |                 | 235.0 ft                         |                              |       |              |      | 235.0 ft                     |       |              |      |      |      |      |      |
| 5                        | Room area            |                      |                        |       |                 | 235.0 ft²                        |                              |       |              |      | 321.0 ft²                    |       |              |      |      |      |      |      |
|                          | Ty                   | Construction number  | U-value (Btu/h/ft²·°F) | Or    | HTM (Btu/h/ft²) |                                  | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |      |      |      |      |
|                          |                      |                      |                        |       | Heat            | Cool                             | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |      |      |      |      |
| 6<br>11                  | W                    | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85                            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                  | se    | 2.66            | 1.36                             | 125                          | 125   | 332          | 170  | 220                          | 203   | 539          | 276  |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.06                            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.06                            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.06                            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 17.76                            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 10.23           | 16.95                            | 0                            | 0     | 0            | 0    | 17                           | 3     | 177          | 294  |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
|                          | D                    | Door, wd sc type     | 0.390                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | W                    | Knee wall            | 0.026                  | se    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                  | sw    | 2.66            | 1.36                             | 0                            | 0     | 0            | 0    | 155                          | 103   | 274          | 140  |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 10.23           | 16.95                            | 0                            | 0     | 0            | 0    | 52                           | 10    | 532          | 881  |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | sw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                  | w     | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | w     | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                  | nw    | 2.66            | 1.36                             | 0                            | 0     | 0            | 0    | 170                          | 153   | 406          | 208  |      |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | nw    | 0.00            | 0.00                             | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0    |      |      |      |
|                          | G                    | Double pane low-e vi | 0.250                  | nw    | 10.23           | 17.85                            | 0                            | 0     | 0            | 0    | 17                           | 0     | 177          | 309  |      |      |      |      |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
| G                        | Double pane low-e vi | 0.250                | nw                     | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                      | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
| D                        | Door, wd sc type     | 0.390                | n                      | 0.00  | 0.00            | 0                                | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |      |      |      |      |
| C                        | Shingle R-38 spray f | 0.032                | -                      | 0.78  | 0.45            | 235                              | 235                          | 183   | 106          | 321  | 321                          | 250   | 145          |      |      |      |      |      |
| F                        | Slab on grade        | 0.989                | -                      | 40.45 | 0.00            | 235                              | 12                           | 506   | 0            | 321  | 54                           | 2205  | 0            |      |      |      |      |      |
|                          |                      |                      |                        |       |                 |                                  |                              |       |              |      |                              |       |              |      |      |      |      |      |
|                          |                      |                      |                        |       |                 |                                  |                              |       |              |      |                              |       |              |      |      |      |      |      |
| 6                        | c) AED excursion     |                      |                        |       |                 |                                  |                              |       |              |      | -60                          |       |              |      |      | 94   |      |      |
| Envelope loss/gain       |                      |                      |                        |       |                 |                                  |                              |       |              | 1021 |                              |       |              |      | 216  | 4559 | 2348 |      |
| 12                       | a) Infiltration      |                      |                        |       |                 |                                  |                              |       |              |      | 414                          |       |              |      |      | 102  | 1803 | 445  |
| b) Room ventilation      |                      |                      |                        |       |                 |                                  |                              |       |              | 0    |                              |       |              |      | 0    | 0    | 0    |      |
| 13                       | Internal gains:      |                      |                        |       |                 | Occupants @ Appliances/other 230 |                              |       |              |      | 0                            |       |              |      |      | 0    | 0    | 0    |
|                          |                      |                      |                        |       |                 |                                  |                              |       |              | 500  |                              |       |              |      |      |      | 0    |      |
| Subtotal (lines 6 to 13) |                      |                      |                        |       |                 |                                  |                              |       |              | 1434 |                              |       |              |      | 819  | 6362 | 2793 |      |
| Less external load       |                      |                      |                        |       |                 |                                  |                              |       |              | 0    |                              |       |              |      | 0    | 0    | 0    |      |
| Less transfer            |                      |                      |                        |       |                 |                                  |                              |       |              | 0    |                              |       |              |      | 0    | 0    | 0    |      |
| Redistribution           |                      |                      |                        |       |                 |                                  |                              |       |              | 0    |                              |       |              |      | 0    | 0    | 0    |      |
| 14                       | Subtotal             |                      |                        |       |                 |                                  |                              |       |              |      | 1434                         |       |              |      |      | 819  | 6362 | 2793 |
| 15                       | Duct loads           |                      |                        |       |                 | 26% 33%                          |                              |       |              |      | 373                          |       |              |      |      | 267  | 1653 | 912  |
| Total room load          |                      |                      |                        |       |                 |                                  |                              |       |              | 1807 |                              |       |              |      | 1086 | 8015 | 3705 |      |
| Air required (cfm)       |                      |                      |                        |       |                 |                                  |                              |       |              | 54   |                              |       |              |      | 63   | 240  | 216  |      |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Right-J® Worksheet AHU-2 Master/BR2 LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|    |                          |                      |                        |    |                 |                        |                              |       |              |      |                              |       |              |      |  |
|----|--------------------------|----------------------|------------------------|----|-----------------|------------------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|--|
| 1  | Room name                |                      |                        |    |                 | M Clos                 |                              |       |              |      | U Hall                       |       |              |      |  |
| 2  | Exposed wall             |                      |                        |    |                 | 13.5 ft                |                              |       |              |      | 0 ft                         |       |              |      |  |
| 3  | Room height              |                      |                        |    |                 | heat/cool              |                              |       |              |      | heat/cool                    |       |              |      |  |
| 4  | Room dimensions          |                      |                        |    |                 | 10.0 ft 16.0 x 13.5 ft |                              |       |              |      | 10.0 ft 1.0 x 61.2 ft        |       |              |      |  |
| 5  | Room area                |                      |                        |    |                 | 216.0 ft²              |                              |       |              |      | 61.2 ft²                     |       |              |      |  |
|    | Ty                       | Construction number  | U-value (Btu/h·ft²·°F) | Or | HTM (Btu/h·ft²) |                        | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |  |
|    |                          |                      |                        |    | Heat            | Cool                   | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |  |
| 6  | W                        | 2x6 R-27 spray foam  | 0.065                  | ne | 2.66            | 1.36                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
| 11 | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 10.23           | 17.85                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | ne | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | W                        | 2x6 R-27 spray foam  | 0.065                  | se | 2.66            | 1.36                   | 135                          | 129   | 343          | 176  | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 10.23           | 16.06                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 10.23           | 16.06                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 10.23           | 16.06                  | 6                            | 2     | 61           | 96   | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 10.23           | 17.76                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 10.23           | 16.95                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | se | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | D                        | Door, wd sc type     | 0.390                  | se | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | W                        | Knee wall            | 0.026                  | se | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | W                        | 2x6 R-27 spray foam  | 0.065                  | sw | 2.66            | 1.36                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 10.23           | 16.95                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | sw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | W                        | 2x6 R-27 spray foam  | 0.065                  | w  | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | w  | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | W                        | 2x6 R-27 spray foam  | 0.065                  | nw | 2.66            | 1.36                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | nw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | nw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | nw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | nw | 10.23           | 17.85                  | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | nw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | G                        | Double pane low-e vi | 0.250                  | nw | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | P                        | Frame Wall 2 x 4 R-1 | 0.101                  | -  | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | D                        | Door, wd sc type     | 0.390                  | n  | 0.00            | 0.00                   | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |  |
|    | C                        | Shingle R-38 spray f | 0.032                  | -  | 0.78            | 0.45                   | 216                          | 216   | 168          | 98   | 61                           | 61    | 48           | 28   |  |
|    | F                        | Slab on grade        | 0.989                  | -  | 40.45           | 0.00                   | 216                          | 14    | 546          | 0    | 61                           | 0     | 0            | 0    |  |
|    |                          |                      |                        |    |                 |                        |                              |       |              |      |                              |       |              |      |  |
|    |                          |                      |                        |    |                 |                        |                              |       |              |      |                              |       |              |      |  |
|    |                          |                      |                        |    |                 |                        |                              |       |              |      |                              |       |              |      |  |
| 6  | c) AED excursion         |                      |                        |    |                 |                        |                              |       |              | 26   |                              |       |              | -2   |  |
|    | Envelope loss/gain       |                      |                        |    |                 |                        |                              |       | 1118         | 396  |                              |       | 48           | 26   |  |
| 12 | a) Infiltration          |                      |                        |    |                 |                        |                              |       | 447          | 110  |                              |       | 0            | 0    |  |
|    | b) Room ventilation      |                      |                        |    |                 |                        |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
| 13 | Internal gains:          | Occupants @          | 230                    |    |                 |                        | 0                            |       |              | 0    | 0                            |       |              | 0    |  |
|    |                          | Appliances/other     |                        |    |                 |                        |                              |       |              | 0    |                              |       |              | 0    |  |
|    | Subtotal (lines 6 to 13) |                      |                        |    |                 |                        |                              |       | 1565         | 506  |                              |       | 48           | 26   |  |
|    | Less external load       |                      |                        |    |                 |                        |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
|    | Less transfer            |                      |                        |    |                 |                        |                              |       | 0            | 0    |                              |       | 0            | 0    |  |
|    | Redistribution           |                      |                        |    |                 |                        |                              |       | 0            | 0    |                              |       | -48          | -26  |  |
| 14 | Subtotal                 |                      |                        |    |                 |                        |                              |       | 1565         | 506  |                              |       | 0            | 0    |  |
| 15 | Duct loads               |                      |                        |    |                 |                        | 26%                          | 33%   | 407          | 165  | 26%                          | 33%   | 0            | 0    |  |
|    | Total room load          |                      |                        |    |                 |                        |                              |       | 1972         | 671  |                              |       | 0            | 0    |  |
|    | Air required (cfm)       |                      |                        |    |                 |                        |                              |       | 59           | 39   |                              |       | 0            | 0    |  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





# Right-J® Worksheet AHU-2 Master/BR2 LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

| 1                        | Room name            |                      |                           |       |                    | Utility<br>8.0 ft |                                 |       |                 |      | WC<br>3.5 ft                    |       |                 |      |     |
|--------------------------|----------------------|----------------------|---------------------------|-------|--------------------|-------------------|---------------------------------|-------|-----------------|------|---------------------------------|-------|-----------------|------|-----|
| 2                        | Exposed wall         |                      |                           |       |                    | 10.0 ft           |                                 |       |                 |      | 10.0 ft                         |       |                 |      |     |
| 3                        | Room height          |                      |                           |       |                    | 1.0               |                                 |       |                 |      | 6.0                             |       |                 |      |     |
| 4                        | Room dimensions      |                      |                           |       |                    | 115.0 ft          |                                 |       |                 |      | 3.5 ft                          |       |                 |      |     |
| 5                        | Room area            |                      |                           |       |                    | 115.0 ft²         |                                 |       |                 |      | 21.0 ft²                        |       |                 |      |     |
|                          | Ty                   | Construction number  | U-value<br>(Btu/h/ft²·°F) | Or    | HTM<br>(Btu/h/ft²) |                   | Area (ft²)<br>or perimeter (ft) |       | Load<br>(Btu/h) |      | Area (ft²)<br>or perimeter (ft) |       | Load<br>(Btu/h) |      |     |
|                          |                      |                      |                           |       | Heat               | Cool              | Gross                           | N/P/S | Heat            | Cool | Gross                           | N/P/S | Heat            | Cool |     |
| 6                        | W                    | 2x6 R-27 spray foam  | 0.065                     | ne    | 2.66               | 1.36              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| 11                       | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 10.23              | 17.85             | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                     | ne    | 0.00               | 0.00              | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | se                        | 2.66  | 1.36               | 80                | 72                              | 191   | 98              | 35   | 32                              | 85    | 44              |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 10.23 | 16.06              | 0                 | 0                               | 0     | 0               | 3    | 1                               | 31    | 48              |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 10.23 | 16.06              | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 10.23 | 16.06              | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 10.23 | 17.76              | 8                 | 1                               | 82    | 142             | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 10.23 | 16.95              | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| G                        | Double pane low-e vi | 0.250                | se                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               |      |     |
| D                        | Door, wd sc type     | 0.390                | se                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| W                        | Knee wall            | 0.026                | se                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | sw                        | 2.66  | 1.36               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 10.23 | 16.95              | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | w                         | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | w                         | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | nw                        | 2.66  | 1.36               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 10.23 | 17.85              | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                        | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                         | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| D                        | Door, wd sc type     | 0.390                | n                         | 0.00  | 0.00               | 0                 | 0                               | 0     | 0               | 0    | 0                               | 0     | 0               | 0    |     |
| C                        | Shingle R-38 spray f | 0.032                | -                         | 0.78  | 0.45               | 115               | 115                             | 89    | 52              | 21   | 21                              | 16    | 10              |      |     |
| F                        | Slab on grade        | 0.989                | -                         | 40.45 | 0.00               | 115               | 8                               | 324   | 0               | 21   | 4                               | 142   | 0               |      |     |
|                          |                      |                      |                           |       |                    |                   |                                 |       |                 |      |                                 |       |                 |      |     |
|                          |                      |                      |                           |       |                    |                   |                                 |       |                 |      |                                 |       |                 |      |     |
|                          |                      |                      |                           |       |                    |                   |                                 |       |                 |      |                                 |       |                 |      |     |
| 6                        | c) AED excursion     |                      |                           |       |                    |                   |                                 |       | 20              |      |                                 |       | 3               |      |     |
| Envelope loss/gain       |                      |                      |                           |       |                    |                   |                                 | 686   | 312             |      |                                 | 274   | 105             |      |     |
| 12                       | a) Infiltration      |                      |                           |       |                    |                   |                                 |       | 265             | 65   |                                 |       | 116             | 29   |     |
| b) Room ventilation      |                      |                      |                           |       |                    |                   |                                 | 0     | 0               |      |                                 | 0     | 0               |      |     |
| 13                       | Internal gains:      |                      |                           |       |                    | Occupants @       | 230                             | 0     |                 | 0    | 0                               |       | 0               |      |     |
|                          |                      |                      |                           |       | Appliances/other   |                   |                                 |       | 500             |      |                                 | 250   |                 |      |     |
| Subtotal (lines 6 to 13) |                      |                      |                           |       |                    |                   |                                 | 951   | 877             |      |                                 | 389   | 383             |      |     |
| Less external load       |                      |                      |                           |       |                    |                   |                                 | 0     | 0               |      |                                 | 0     | 0               |      |     |
| Less transfer            |                      |                      |                           |       |                    |                   |                                 | 0     | 0               |      |                                 | 0     | 0               |      |     |
| Redistribution           |                      |                      |                           |       |                    |                   |                                 | 25    | 13              |      |                                 | 0     | 0               |      |     |
| 14                       | Subtotal             |                      |                           |       |                    |                   |                                 |       | 976             | 891  |                                 |       | 389             | 383  |     |
| 15                       | Duct loads           |                      |                           |       |                    |                   |                                 | 26%   | 33%             | 254  | 291                             | 26%   | 33%             | 101  | 125 |
| Total room load          |                      |                      |                           |       |                    |                   |                                 |       | 1229            | 1181 |                                 |       | 491             | 508  |     |
| Air required (cfm)       |                      |                      |                           |       |                    |                   |                                 |       | 37              | 69   |                                 |       | 15              | 30   |     |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 12



# Right-J® Worksheet

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|    |                          |                      |                        |       |                 |                  |                              |       |              |       |                              |       |              |      |     |
|----|--------------------------|----------------------|------------------------|-------|-----------------|------------------|------------------------------|-------|--------------|-------|------------------------------|-------|--------------|------|-----|
| 1  | Room name                |                      |                        |       |                 | AHU-3 Second     |                              |       |              |       | Bath 3                       |       |              |      |     |
| 2  | Exposed wall             |                      |                        |       |                 | 129.0 ft         |                              |       |              |       | 9.0 ft                       |       |              |      |     |
| 3  | Room height              |                      |                        |       |                 | 10.3 ft          |                              |       |              |       | 10.0 ft                      |       |              |      |     |
| 4  | Room dimensions          |                      |                        |       |                 | 1007.0 ft²       |                              |       |              |       | 6.5 x 9.0 ft                 |       |              |      |     |
| 5  | Room area                |                      |                        |       |                 | 1007.0 ft²       |                              |       |              |       | 58.5 ft²                     |       |              |      |     |
|    | Ty                       | Construction number  | U-value (Btu/h/ft²·°F) | Or    | HTM (Btu/h/ft²) |                  | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |       | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|    |                          |                      |                        |       | Heat            | Cool             | Gross                        | N/P/S | Heat         | Cool  | Gross                        | N/P/S | Heat         | Cool |     |
| 6  | W                        | 2x6 R-27 spray foam  | 0.065                  | ne    | 2.66            | 1.36             | 295                          | 202   | 536          | 274   | 0                            | 0     | 0            | 0    |     |
| 11 | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 15.85            | 42                           | 0     | 429          | 665   | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 15.85            | 22                           | 0     | 220          | 341   | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85            | 9                            | 0     | 92           | 161   | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 10.23           | 17.85            | 21                           | 0     | 215          | 375   | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | G                        | Double pane low-e vi | 0.250                  | ne    | 0.00            | 0.00             | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
|    | W                        | 2x6 R-27 spray foam  | 0.065                  | se    | 2.66            | 1.36             | 30                           | 6     | 16           | 8     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | se                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| D  | Door, wd sc type         | 0.390                | se                     | 15.95 | 12.54           | 24               | 24                           | 383   | 301          | 0     | 0                            | 0     | 0            |      |     |
| W  | Knee wall                | 0.026                | se                     | 0.76  | 0.47            | 320              | 320                          | 244   | 150          | 0     | 0                            | 0     | 0            |      |     |
| W  | 2x6 R-27 spray foam      | 0.065                | sw                     | 2.66  | 1.36            | 295              | 220                          | 586   | 300          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 16.10           | 18               | 3                            | 179   | 282          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 16.10           | 36               | 5                            | 368   | 580          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 10.23 | 16.10           | 21               | 3                            | 215   | 338          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | sw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| W  | 2x6 R-27 spray foam      | 0.065                | w                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| G  | Double pane low-e vi     | 0.250                | w                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| W  | 2x6 R-27 spray foam      | 0.065                | nw                     | 2.66  | 1.36            | 350              | 311                          | 827   | 424          | 90    | 81                           | 215   | 110          |      |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 15.85           | 9                | 0                            | 92    | 143          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 15.85           | 21               | 0                            | 215   | 333          | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 10.23 | 17.85           | 9                | 0                            | 92    | 161          | 9     | 0                            | 92    | 161          |      |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| G  | Double pane low-e vi     | 0.250                | nw                     | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            |      |     |
| P  | Frame Wall 2 x 4 R-1     | 0.101                | -                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| D  | Door, wd sc type         | 0.390                | n                      | 0.00  | 0.00            | 0                | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| C  | Shingle R-38 spray f     | 0.032                | -                      | 0.78  | 0.45            | 1007             | 1007                         | 784   | 456          | 58    | 58                           | 46    | 27           |      |     |
| F  | Slab on grade            | 0.989                | -                      | 0.00  | 0.00            | 26               | 0                            | 0     | 0            | 0     | 0                            | 0     | 0            | 0    |     |
| 6  | c) AED excursion         |                      |                        |       |                 |                  |                              |       | 204          |       |                              |       | 6            |      |     |
|    | Envelope loss/gain       |                      |                        |       |                 |                  |                              |       | 5491         | 5495  |                              |       | 353          | 304  |     |
| 12 | a) Infiltration          |                      |                        |       |                 |                  |                              |       | 4269         | 1054  |                              |       | 298          | 74   |     |
|    | b) Room ventilation      |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
| 13 | Internal gains:          |                      |                        |       |                 | Occupants @      | 230                          | 0     |              | 0     | 0                            |       | 0            | 0    |     |
|    |                          |                      |                        |       |                 | Appliances/other |                              |       |              | 1900  |                              |       | 250          |      |     |
|    | Subtotal (lines 6 to 13) |                      |                        |       |                 |                  |                              |       | 9760         | 8449  |                              |       | 651          | 627  |     |
|    | Less external load       |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
|    | Less transfer            |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
|    | Redistribution           |                      |                        |       |                 |                  |                              |       | 0            | 0     |                              |       | 0            | 0    |     |
| 14 | Subtotal                 |                      |                        |       |                 |                  |                              |       | 9760         | 8449  |                              |       | 651          | 627  |     |
| 15 | Duct loads               |                      |                        |       |                 |                  |                              | 41%   | 29%          | 3966  | 2444                         | 41%   | 29%          | 264  | 181 |
|    | Total room load          |                      |                        |       |                 |                  |                              |       | 13726        | 10893 |                              |       | 915          | 809  |     |
|    | Air required (cfm)       |                      |                        |       |                 |                  |                              |       | 620          | 620   |                              |       | 41           | 46   |     |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 13



# Right-J® Worksheet

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|                          |                      |                      |                       |       |                  |              |                              |       |              |      |                              |       |              |      |     |
|--------------------------|----------------------|----------------------|-----------------------|-------|------------------|--------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|-----|
| 1                        | Room name            |                      |                       |       |                  | Bath 4       |                              |       |              |      | Bedroom 3                    |       |              |      |     |
| 2                        | Exposed wall         |                      |                       |       |                  | 9.0 ft       |                              |       |              |      | 16.0 ft                      |       |              |      |     |
| 3                        | Room height          |                      |                       |       |                  | 10.0 ft      |                              |       |              |      | 10.0 ft                      |       |              |      |     |
| 4                        | Room dimensions      |                      |                       |       |                  | 6.5 x 9.0 ft |                              |       |              |      | 1.0 x 208.2 ft               |       |              |      |     |
| 5                        | Room area            |                      |                       |       |                  | 58.5 ft²     |                              |       |              |      | 208.2 ft²                    |       |              |      |     |
|                          | Ty                   | Construction number  | U-value (Btu/h/ft²·F) | Or    | HTM (Btu/h/ft²)  |              | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|                          |                      |                      |                       |       | Heat             | Cool         | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |     |
| 6                        | W                    | 2x6 R-27 spray foam  | 0.065                 | ne    | 2.66             | 1.36         | 0                            | 0     | 0            | 0    | 130                          | 88    | 233          | 119  |     |
| 11                       | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 15.85        | 0                            | 0     | 0            | 0    | 21                           | 0     | 215          | 333  |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 15.85        | 0                            | 0     | 0            | 0    | 22                           | 0     | 220          | 341  |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 17.85        | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 17.85        | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00         | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | se                    | 2.66  | 1.36             | 0            | 0                            | 0     | 0            | 30   | 30                           | 80    | 41           |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            |      |     |
| D                        | Door, wd sc type     | 0.390                | se                    | 15.95 | 12.54            | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | Knee wall            | 0.026                | se                    | 0.76  | 0.47             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | sw                    | 2.66  | 1.36             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 10.23 | 16.10            | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 10.23 | 16.10            | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 10.23 | 16.10            | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | w                     | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | w                     | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| W                        | 2x6 R-27 spray foam  | 0.065                | nw                    | 2.66  | 1.36             | 90           | 81                           | 215   | 110          | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                    | 10.23 | 15.85            | 9            | 0                            | 92    | 143          | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                    | 10.23 | 15.85            | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                    | 10.23 | 17.85            | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G                        | Double pane low-e vi | 0.250                | nw                    | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                     | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| D                        | Door, wd sc type     | 0.390                | n                     | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| C                        | Shingle R-38 spray f | 0.032                | -                     | 0.78  | 0.45             | 58           | 58                           | 46    | 27           | 208  | 208                          | 162   | 94           |      |     |
| F                        | Slab on grade        | 0.989                | -                     | 0.00  | 0.00             | 0            | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|                          |                      |                      |                       |       |                  |              |                              |       |              |      |                              |       |              |      |     |
|                          |                      |                      |                       |       |                  |              |                              |       |              |      |                              |       |              |      |     |
| 6                        | c) AED excursion     |                      |                       |       |                  |              |                              |       | 13           |      |                              |       | -28          |      |     |
| Envelope loss/gain       |                      |                      |                       |       |                  |              |                              | 353   | 292          |      |                              | 909   | 900          |      |     |
| 12                       | a) Infiltration      |                      |                       |       |                  |              |                              |       | 298          | 74   |                              |       | 529          | 131  |     |
| b) Room ventilation      |                      |                      |                       |       |                  |              |                              | 0     | 0            |      |                              | 0     | 0            |      |     |
| 13                       | Internal gains:      |                      |                       |       |                  | Occupants @  | 230                          | 0     |              | 0    | 0                            |       | 0            | 0    |     |
|                          |                      |                      |                       |       | Appliances/other |              |                              |       | 250          |      |                              |       | 0            | 0    |     |
| Subtotal (lines 6 to 13) |                      |                      |                       |       |                  |              |                              | 651   | 616          |      |                              | 1438  | 1030         |      |     |
| Less external load       |                      |                      |                       |       |                  |              |                              | 0     | 0            |      |                              | 0     | 0            | 0    |     |
| Less transfer            |                      |                      |                       |       |                  |              |                              | 0     | 0            |      |                              | 0     | 0            | 0    |     |
| Redistribution           |                      |                      |                       |       |                  |              |                              | 0     | 0            |      |                              | 0     | 0            | 0    |     |
| 14                       | Subtotal             |                      |                       |       |                  |              |                              |       | 651          | 616  |                              |       | 1438         | 1030 |     |
| 15                       | Duct loads           |                      |                       |       |                  |              |                              | 41%   | 29%          | 264  | 178                          | 41%   | 29%          | 584  | 298 |
| Total room load          |                      |                      |                       |       |                  |              |                              |       | 915          | 794  |                              |       | 2023         | 1328 |     |
| Air required (cfm)       |                      |                      |                       |       |                  |              |                              |       | 41           | 45   |                              |       | 91           | 76   |     |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 14





# Right-J® Worksheet

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|         |                          |                      |                       |       |                 |                |                              |       |              |      |                              |       |              |      |     |
|---------|--------------------------|----------------------|-----------------------|-------|-----------------|----------------|------------------------------|-------|--------------|------|------------------------------|-------|--------------|------|-----|
| 1       | Room name                |                      |                       |       |                 | Clos 4<br>0 ft |                              |       |              |      | Den<br>36.0 ft               |       |              |      |     |
| 2       | Exposed wall             |                      |                       |       |                 | 10.0 ft        |                              |       |              |      | 10.0 ft                      |       |              |      |     |
| 3       | Room height              |                      |                       |       |                 | heat/cool      |                              |       |              |      | heat/cool                    |       |              |      |     |
| 4       | Room dimensions          |                      |                       |       |                 | 4.5 x 8.5 ft   |                              |       |              |      | 1.0 x 324.8 ft               |       |              |      |     |
| 5       | Room area                |                      |                       |       |                 | 38.2 ft²       |                              |       |              |      | 324.8 ft²                    |       |              |      |     |
|         | Ty                       | Construction number  | U-value (Btu/h/ft²·F) | Or    | HTM (Btu/h/ft²) |                | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      |     |
|         |                          |                      |                       |       | Heat            | Cool           | Gross                        | N/P/S | Heat         | Cool | Gross                        | N/P/S | Heat         | Cool |     |
| 6<br>11 | W                        | 2x6 R-27 spray foam  | 0.065                 | ne    | 2.66            | 1.36           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 10.23           | 15.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 10.23           | 15.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 10.23           | 17.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 10.23           | 17.85          | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | ne    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | W                        | 2x6 R-27 spray foam  | 0.065                 | se    | 2.66            | 1.36           | 0                            | 0     | 0            | 0    | 0                            | -24   | -64          | -33  |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | G                        | Double pane low-e vi | 0.250                 | se    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         | D                        | Door, wd sc type     | 0.390                 | se    | 15.95           | 12.54          | 0                            | 0     | 0            | 0    | 0                            | 24    | 24           | 383  | 301 |
|         | W                        | Knee wall            | 0.026                 | se    | 0.76            | 0.47           | 0                            | 0     | 0            | 0    | 0                            | 215   | 215          | 164  | 101 |
|         | W                        | 2x6 R-27 spray foam  | 0.065                 | sw    | 2.66            | 1.36           | 0                            | 0     | 0            | 0    | 0                            | 145   | 92           | 243  | 125 |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 10.23           | 16.10          | 0                            | 0     | 0            | 0    | 0                            | 18    | 1            | 179  | 282 |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 10.23           | 16.10          | 0                            | 0     | 0            | 0    | 0                            | 36    | 3            | 368  | 580 |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | sw    | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | W                        | 2x6 R-27 spray foam  | 0.065                 | w     | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | G                        | Double pane low-e vi | 0.250                 | w     | 0.00            | 0.00           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
|         | W                        | 2x6 R-27 spray foam  | 0.065                 | nw    | 2.66            | 1.36           | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    | 0   |
| G       | Double pane low-e vi     | 0.250                | nw                    | 10.23 | 15.85           | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G       | Double pane low-e vi     | 0.250                | nw                    | 10.23 | 15.85           | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G       | Double pane low-e vi     | 0.250                | nw                    | 10.23 | 17.85           | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G       | Double pane low-e vi     | 0.250                | nw                    | 0.00  | 0.00            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G       | Double pane low-e vi     | 0.250                | nw                    | 0.00  | 0.00            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| G       | Double pane low-e vi     | 0.250                | nw                    | 0.00  | 0.00            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| P       | Frame Wall 2 x 4 R-1     | 0.101                | -                     | 0.00  | 0.00            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| D       | Door, wd sc type         | 0.390                | n                     | 0.00  | 0.00            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
| C       | Shingle R-38 spray f     | 0.032                | -                     | 0.78  | 0.45            | 38             | 38                           | 30    | 17           | 325  | 325                          | 253   | 147          |      |     |
| F       | Slab on grade            | 0.989                | -                     | 0.00  | 0.00            | 0              | 0                            | 0     | 0            | 0    | 0                            | 0     | 0            | 0    |     |
|         |                          |                      |                       |       |                 |                |                              |       |              |      |                              |       |              |      |     |
|         |                          |                      |                       |       |                 |                |                              |       |              |      |                              |       |              |      |     |
| 6       | c) AED excursion         |                      |                       |       |                 |                |                              |       |              | -50  |                              |       |              | 151  |     |
|         | Envelope loss/gain       |                      |                       |       |                 |                |                              |       |              | 30   | -33                          |       | 1526         | 1653 |     |
| 12      | a) Infiltration          |                      |                       |       |                 |                |                              |       |              | 0    | 0                            |       | 1191         | 294  |     |
|         | b) Room ventilation      |                      |                       |       |                 |                |                              |       |              | 0    | 0                            |       | 0            | 0    |     |
| 13      | Internal gains:          |                      | Occupants @           | 230   |                 | 0              |                              |       | 0            | 0    |                              |       | 0            | 0    |     |
|         |                          |                      | Appliances/other      |       |                 |                |                              |       | 500          |      |                              |       | 900          |      |     |
|         | Subtotal (lines 6 to 13) |                      |                       |       |                 |                |                              |       |              | 30   | 467                          |       | 2717         | 2847 |     |
|         | Less external load       |                      |                       |       |                 |                |                              |       |              | 0    | 0                            |       | 0            | 0    |     |
|         | Less transfer            |                      |                       |       |                 |                |                              |       |              | 0    | 0                            |       | 0            | 0    |     |
|         | Redistribution           |                      |                       |       |                 |                |                              |       |              | 0    | 0                            |       | 0            | 0    |     |
| 14      | Subtotal                 |                      |                       |       |                 |                |                              |       |              | 30   | 467                          |       | 2717         | 2847 |     |
| 15      | Duct loads               |                      |                       |       |                 | 41%            | 29%                          |       |              | 12   | 135                          | 41%   | 29%          | 1104 | 824 |
|         | Total room load          |                      |                       |       |                 |                |                              |       |              | 42   | 602                          |       | 3821         | 3671 |     |
|         | Air required (cfm)       |                      |                       |       |                 |                |                              |       |              | 2    | 34                           |       | 173          | 209  |     |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 16



# Right-J® Worksheet

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

|                          |                      |                      |                       |       |                  |                 |                              |       |              |      |                   |       |      |      |  |
|--------------------------|----------------------|----------------------|-----------------------|-------|------------------|-----------------|------------------------------|-------|--------------|------|-------------------|-------|------|------|--|
| 1                        | Room name            |                      |                       |       |                  | Stairs          |                              |       |              |      |                   |       |      |      |  |
| 2                        | Exposed wall         |                      |                       |       |                  | 13.5 ft         |                              |       |              |      | 19.0 ft           |       |      |      |  |
| 3                        | Room height          |                      |                       |       |                  | 8.5             |                              |       |              |      | heat/cool         |       |      |      |  |
| 4                        | Room dimensions      |                      |                       |       |                  | 89.2 ft²        |                              |       |              |      | 8.5 x 10.5 ft     |       |      |      |  |
| 5                        | Room area            |                      |                       |       |                  |                 |                              |       |              |      |                   |       |      |      |  |
|                          | Ty                   | Construction number  | U-value (Btu/h-ft²-F) | Or    | HTM (Btu/h-ft²)  |                 | Area (ft²) or perimeter (ft) |       | Load (Btu/h) |      | Area or perimeter |       | Load |      |  |
|                          |                      |                      |                       |       | Heat             | Cool            | Gross                        | N/P/S | Heat         | Cool | Gross             | N/P/S | Heat | Cool |  |
| 6                        | W                    | 2x6 R-27 spray foam  | 0.065                 | ne    | 2.66             | 1.36            | 85                           | 55    | 146          | 75   |                   |       |      |      |  |
| 11                       | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 15.85           | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 15.85           | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 17.85           | 9                            | 0     | 92           | 161  |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 10.23            | 17.85           | 21                           | 0     | 215          | 375  |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | G                    | Double pane low-e vi | 0.250                 | ne    | 0.00             | 0.00            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
|                          | W                    | 2x6 R-27 spray foam  | 0.065                 | se    | 2.66             | 1.36            | 0                            | 0     | 0            | 0    |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | se                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| D                        | Door, wd sc type     | 0.390                | se                    | 15.95 | 12.54            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| W                        | Knee wall            | 0.026                | se                    | 0.78  | 0.47             | 105             | 105                          | 80    | 49           |      |                   |       |      |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | sw                    | 2.66  | 1.36             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 10.23 | 16.10            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 10.23 | 16.10            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 10.23 | 16.10            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | sw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | w                     | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | w                     | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| W                        | 2x6 R-27 spray foam  | 0.065                | nw                    | 2.66  | 1.36             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                    | 10.23 | 15.85            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                    | 10.23 | 15.85            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                    | 10.23 | 17.85            | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| G                        | Double pane low-e vi | 0.250                | nw                    | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| P                        | Frame Wall 2 x 4 R-1 | 0.101                | -                     | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| D                        | Door, wd sc type     | 0.390                | n                     | 0.00  | 0.00             | 0               | 0                            | 0     | 0            |      |                   |       |      |      |  |
| C                        | Shingle R-38 spray f | 0.032                | -                     | 0.78  | 0.45             | 89              | 89                           | 69    | 40           |      |                   |       |      |      |  |
| F                        | Slab on grade        | 0.989                | -                     | 0.00  | 0.00             | 26              | 0                            | 0     | 0            |      |                   |       |      |      |  |
|                          |                      |                      |                       |       |                  |                 |                              |       |              |      |                   |       |      |      |  |
|                          |                      |                      |                       |       |                  |                 |                              |       |              |      |                   |       |      |      |  |
| 6                        | c) AED excursion     |                      |                       |       |                  |                 |                              |       |              |      |                   |       |      | -20  |  |
| Envelope loss/gain       |                      |                      |                       |       |                  |                 |                              |       | 602          |      | 680               |       |      |      |  |
| 12                       | a) Infiltration      |                      |                       |       |                  |                 |                              |       |              | 629  |                   | 155   |      |      |  |
| b) Room ventilation      |                      |                      |                       |       |                  |                 |                              |       | 0            |      | 0                 |       |      |      |  |
| 13                       | Internal gains:      |                      |                       |       |                  | Occupants @ 230 |                              | 0     |              |      |                   | 0     |      |      |  |
|                          |                      |                      |                       |       | Appliances/other |                 |                              |       |              |      | 0                 |       |      |      |  |
| Subtotal (lines 6 to 13) |                      |                      |                       |       |                  |                 |                              |       | 1231         |      | 836               |       |      |      |  |
| Less external load       |                      |                      |                       |       |                  |                 |                              |       | 0            |      | 0                 |       |      |      |  |
| Less transfer            |                      |                      |                       |       |                  |                 |                              |       | 0            |      | 0                 |       |      |      |  |
| Redistribution           |                      |                      |                       |       |                  |                 |                              |       | 0            |      | 0                 |       |      |      |  |
| 14                       | Subtotal             |                      |                       |       |                  |                 |                              |       |              | 1231 |                   | 836   |      |      |  |
| 15                       | Duct loads           |                      |                       |       |                  |                 |                              | 41%   |              | 29%  |                   | 500   |      | 242  |  |
| Total room load          |                      |                      |                       |       |                  |                 |                              |       | 1731         |      | 1077              |       |      |      |  |
| Air required (cfm)       |                      |                      |                       |       |                  |                 |                              |       | 78           |      | 61                |       |      |      |  |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:36  
Page 17



# Loads for Multiple Orientations

## AHU-1 Main

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

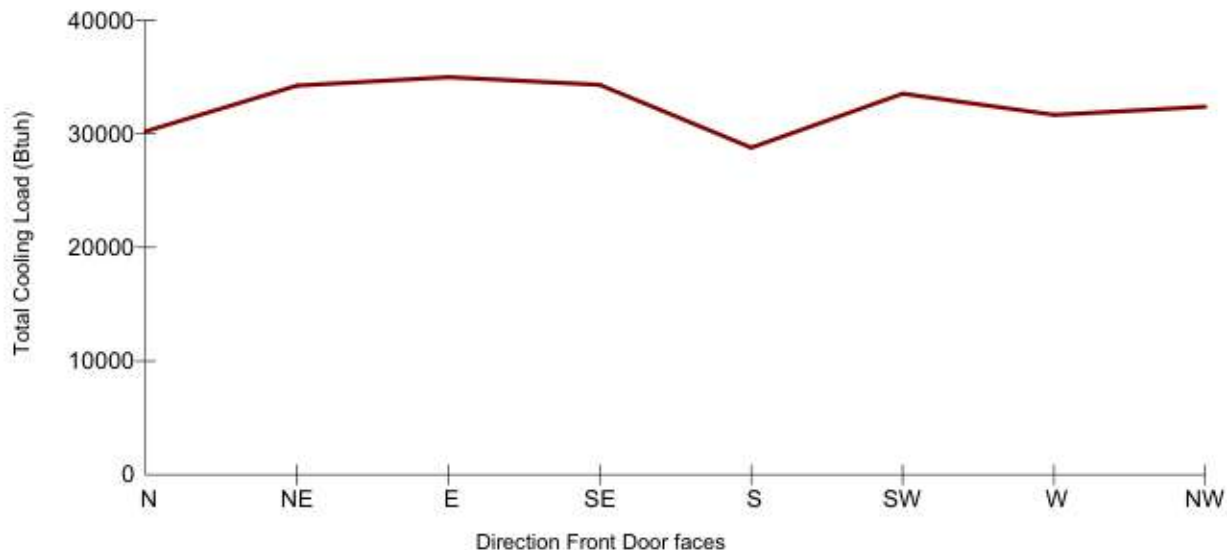
For: Project  
Address, City, State Zip

## Design Conditions

| Location:             |  | Indoor:                 |          | Heating | Cooling |
|-----------------------|--|-------------------------|----------|---------|---------|
| Pensacola NAS, FL, US |  | Indoor temperature (°F) |          | 70      | 75      |
| Elevation: 28 ft      |  | Design TD (°F)          |          | 41      | 18      |
| Latitude: 30°N        |  | Relative humidity (%)   |          | 50      | 50      |
| Outdoor:              |  | Infiltration:           |          | 36.2    | 60.8    |
|                       |  |                         |          |         |         |
|                       |  | Heating                 | Cooling  |         |         |
| Dry bulb (°F)         |  | 29                      | 93       |         |         |
| Daily range (°F)      |  | -                       | 14 ( L ) |         |         |
| Wet bulb (°F)         |  | -                       | 79       |         |         |
| Wind speed (mph)      |  | 15.0                    | 7.5      |         |         |

| Front Door           | North | Northeast | East  | Southeast | South | Southwest | West  | Northwest |
|----------------------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|
| Sensible Load (Btuh) | 22821 | 26871     | 27618 | 26932     | 21414 | 26146     | 24308 | 25005     |
| Latent Load (Btuh)   | 7390  | 7390      | 7390  | 7390      | 7390  | 7390      | 7390  | 7390      |
| Total Load (Btuh)    | 30211 | 34260     | 35008 | 34322     | 28804 | 33536     | 31698 | 32395     |
| Heating AVF (cfm)    | 1597  | 1597      | 1597  | 1597      | 1597  | 1597      | 1597  | 1597      |
| Cooling AVF (cfm)    | 1597  | 1597      | 1597  | 1597      | 1597  | 1597      | 1597  | 1597      |

Building Orientation Cooling Load



Current Orientation: Front Door faces Northeast  
Highest Cooling Load: Front Door faces East

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:42

Page 1



# Loads for Multiple Orientations

## AHU-3 Second

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

For: Project  
Address, City, State Zip

## Design Conditions

### Location:

Pensacola NAS, FL, US  
Elevation: 28 ft  
Latitude: 30°N

### Indoor:

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

### Heating

70  
41  
50  
36.2

### Cooling

75  
18  
50  
60.8

### Outdoor:

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

### Heating

29  
-  
-  
15.0

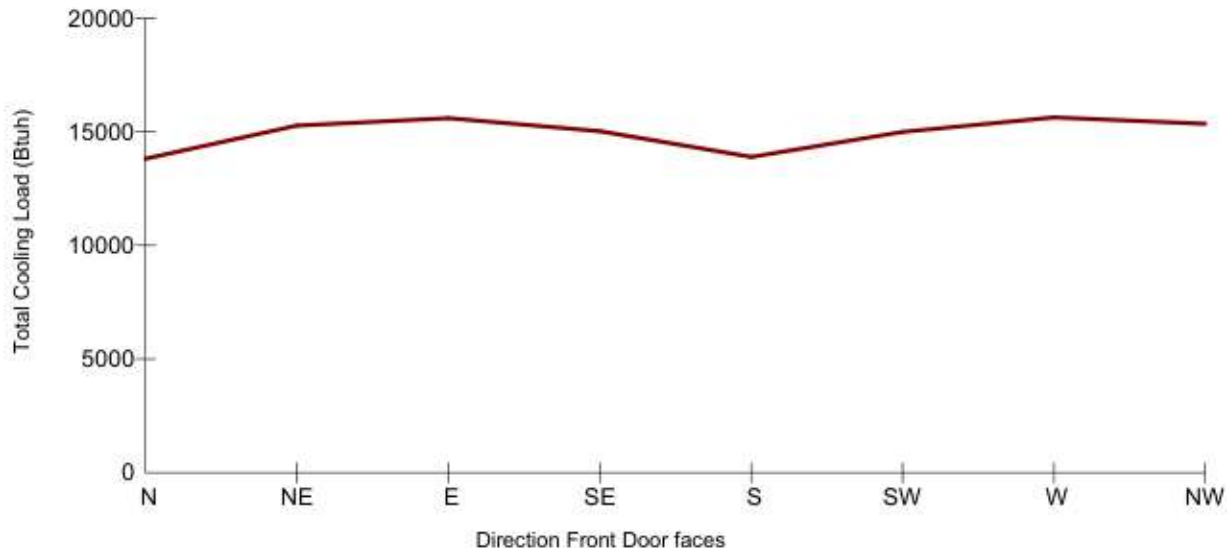
### Cooling

93  
14 ( L )  
79  
7.5

### Infiltration:

| Front Door           | North | Northeast | East  | Southeast | South | Southwest | West  | Northwest |
|----------------------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|
| Sensible Load (Btuh) | 9432  | 10893     | 11225 | 10644     | 9508  | 10610     | 11243 | 10971     |
| Latent Load (Btuh)   | 4392  | 4392      | 4392  | 4392      | 4392  | 4392      | 4392  | 4392      |
| Total Load (Btuh)    | 13824 | 15285     | 15617 | 15036     | 13900 | 15002     | 15635 | 15363     |
| Heating AVF (cfm)    | 620   | 620       | 620   | 620       | 620   | 620       | 620   | 620       |
| Cooling AVF (cfm)    | 620   | 620       | 620   | 620       | 620   | 620       | 620   | 620       |

## Building Orientation Cooling Load



Current Orientation: Front Door faces Northeast  
Highest Cooling Load: Front Door faces West

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:42

Page 2



# Loads for Multiple Orientations

## AHU-2 Master/BR2

### LoadCalcs

Job: Project  
Date: Date  
By: Designer  
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

## Project Information

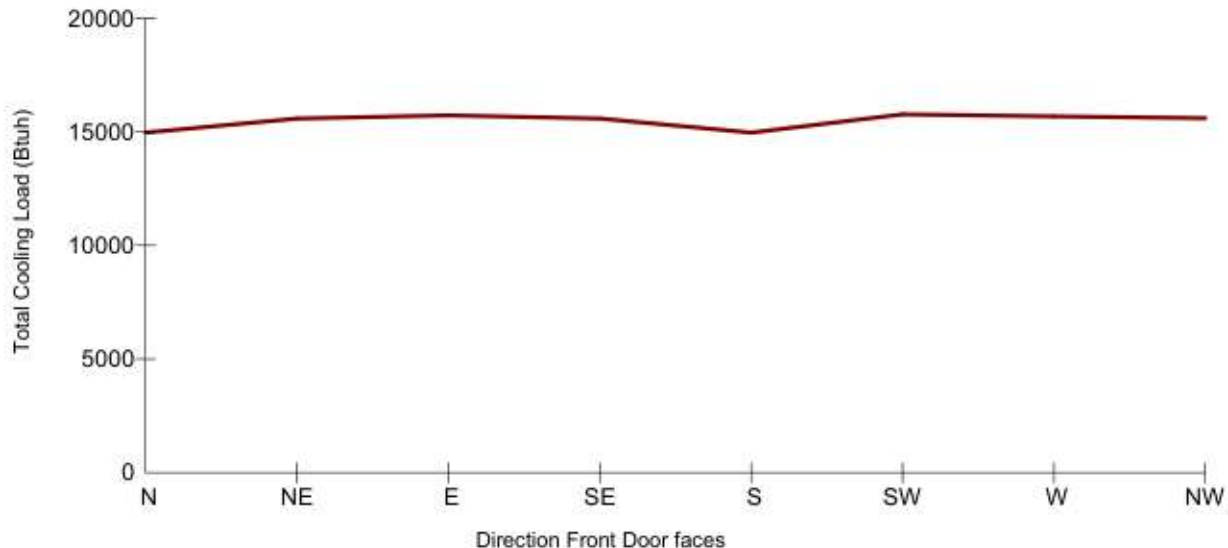
For: Project  
Address, City, State Zip

## Design Conditions

| Location:             |  | Indoor:                     |          | Heating       | Cooling |
|-----------------------|--|-----------------------------|----------|---------------|---------|
| Pensacola NAS, FL, US |  | Indoor temperature (°F)     |          | 70            | 75      |
| Elevation: 28 ft      |  | Design TD (°F)              |          | 41            | 18      |
| Latitude: 30°N        |  | Relative humidity (%)       |          | 50            | 50      |
|                       |  | Moisture difference (gr/lb) |          | 36.2          | 60.8    |
| Outdoor:              |  | Heating                     | Cooling  | Infiltration: |         |
| Dry bulb (°F)         |  | 29                          | 93       |               |         |
| Daily range (°F)      |  | -                           | 14 ( L ) |               |         |
| Wet bulb (°F)         |  | -                           | 79       |               |         |
| Wind speed (mph)      |  | 15.0                        | 7.5      |               |         |

| Front Door           | North | Northeast | East  | Southeast | South | Southwest | West  | Northwest |
|----------------------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|
| Sensible Load (Btuh) | 10066 | 10689     | 10833 | 10692     | 10074 | 10879     | 10790 | 10714     |
| Latent Load (Btuh)   | 4901  | 4901      | 4901  | 4901      | 4901  | 4901      | 4901  | 4901      |
| Total Load (Btuh)    | 14966 | 15589     | 15733 | 15593     | 14975 | 15780     | 15690 | 15614     |
| Heating AVF (cfm)    | 623   | 623       | 623   | 623       | 623   | 623       | 623   | 623       |
| Cooling AVF (cfm)    | 623   | 623       | 623   | 623       | 623   | 623       | 623   | 623       |

## Building Orientation Cooling Load



Current Orientation: Front Door faces Northeast  
Highest Cooling Load: Front Door faces Southwest

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



WRIGHTSOFT

Right-Suite® Universal 2026 26.0.02 RSU58644

2026-Sep-21 14:46:42

Page 3