Manual N Calculations
HVAC Load Calculations

Project Name: Dr Ukaegbu Office
Unit A Tenant Fit Out

Project Address: Columbia County
Lake City, FL 32055

Software: Carrier HAP v5.10

HAP is a multi-function tool supporting peak load calculation and system sizing for commercial buildings of any size. Peak loads are calculated with the ASHRAE Transfer Function Method. Required airflow rates and equipment capacities are derived based on the specified system type. Calculations use a full 8,760 hour-by-hour simulation approach.

HAP complies with ASHRAE Standard 183

Air System Sizing Summary for AHU-1 CU-1

Project Name: Dr Ukaegba Office
Prepared by: FloridaEnergyCalcs.com

04/24/2022
06:52PM

Air System Information

Air System Name	**AHU-1 CU-1**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**2070.0**	ft²
Air System Type	**SZCAV**		Location	**Lake City, Florida**	

Sizing Calculation Information

Calculation Months	**Jan to Dec**		Zone CFM Sizing	**Sum of space airflow rates**	
Sizing Data	**Calculated**		Space CFM Sizing	**Individual peak space loads**	

Central Cooling Coil Sizing Data

Total coil load	**4.9**	Tons	Load occurs at	**Sep 1400**	
Total coil load	**58.8**	MBH	OA DB / WB	**91.5 / 75.9**	°F
Sensible coil load	**45.4**	MBH	Entering DB / WB	**74.5 / 64.6**	°F
Coil CFM at Sep 1400	**2506**	CFM	Leaving DB / WB	**57.7 / 56.8**	°F
Max block CFM	**2506**	CFM	Coil ADP	**55.8**	°F
Sum of peak zone CFM	**2506**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.772**		Resulting RH	**59**	%
CFM/Ton	**511.5**		Design supply temp.	**58.0**	°F
ft²/Ton	**422.5**		Zone T-stat Check	**0 of 1**	OK
BTU/(hr·ft²)	**28.4**		Max zone temperature deviation	**0.0**	°F
Water flow @ 10.0 °F rise	**N/A**				

Central Heating Coil Sizing Data

Max coil load	**11.7**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**2506**	CFM	BTU/(hr·ft²)	**5.6**	
Max coil CFM	**2506**	CFM	Ent. DB / Lvg DB	**64.7 / 69.0**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**2506**	CFM	Fan motor BHP	**n/a**	
Standard CFM	**2503**	CFM	Fan motor kW	**1.96**	kW
Actual max CFM/ft²	**1.21**	CFM/ft²			

Outdoor Ventilation Air Data

Design airflow CFM	**194**	CFM	CFM/person	**5.18**	CFM/person
CFM/ft²	**0.09**	CFM/ft²			

Air System Sizing Summary for AHU-2 CU-2

Project Name: Dr Ukaegba Office
Prepared by: FloridaEnergyCalcs.com

04/24/2022
06:52PM

Air System Information

Air System Name	**AHU-2 CU-2**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**2430.0**	ft²
Air System Type	**SZCAV**		Location	**Lake City, Florida**	

Sizing Calculation Information

Calculation Months	**Jan to Dec**		Zone CFM Sizing	**Sum of space airflow rates**	
Sizing Data	**Calculated**		Space CFM Sizing	**Individual peak space loads**	

Central Cooling Coil Sizing Data

Total coil load	**4.9**	Tons	Load occurs at	**Jul 1500**	
Total coil load	**58.3**	MBH	OA DB / WB	**94.0 / 77.0**	°F
Sensible coil load	**47.3**	MBH	Entering DB / WB	**74.5 / 63.6**	°F
Coil CFM at Jul 1500	**2435**	CFM	Leaving DB / WB	**56.5 / 55.5**	°F
Max block CFM	**2435**	CFM	Coil ADP	**54.5**	°F
Sum of peak zone CFM	**2435**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.812**		Resulting RH	**56**	%
CFM/Ton	**501.5**		Design supply temp.	**58.0**	°F
ft²/Ton	**500.4**		Zone T-stat Check	**1 of 1**	OK
BTU/(hr·ft²)	**24.0**		Max zone temperature deviation	**0.0**	°F
Water flow @ 10.0 °F rise	**N/A**				

Central Heating Coil Sizing Data

Max coil load	**12.2**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**2435**	CFM	BTU/(hr·ft²)	**5.0**	
Max coil CFM	**2435**	CFM	Ent. DB / Lvg DB	**64.9 / 69.5**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**2435**	CFM	Fan motor BHP	**n/a**	
Standard CFM	**2432**	CFM	Fan motor kW	**1.91**	kW
Actual max CFM/ft²	**1.00**	CFM/ft²			

Outdoor Ventilation Air Data

Design airflow CFM	**196**	CFM	CFM/person	**9.11**	CFM/person
CFM/ft²	**0.08**	CFM/ft²			

AHU-1 CU-1 Input Data

Project Name: Dr Ukaegba Office
Prepared by: FloridaEnergyCalcs.com

04/24/2022
06:53PM

1. General Details:

Air System Name **AHU-1 CU-1**
Equipment Type ..... **Split AHU**
Air System Type ..... **Single Zone CAV**
Number of zones **1**

2. Ventilation System Components:

Ventilation Air Data:

Airflow Control ..... **Constant Ventilation Airflow**
Ventilation Sizing Method ..... **Sum of Space OA Airflows**
Unocc. Damper Position ..... **Closed**
Damper Leak Rate ..... **0** %
Outdoor Air CO2 Level ..... **400** ppm

Central Cooling Data:

Supply Air Temperature ..... **58.0** °F
Coil Bypass Factor **0.100**
Cooling Source ..... **Air-Cooled DX**
Schedule ..... **JFMAMJJASOND**
Capacity Control ..... **Cycled or Staged Capacity - Fan On**

Central Heating Data:

Supply Temperature ..... **95.0** °F
Heating Source ..... **Electric Resistance**
Schedule ..... **JFMAMJJASOND**
Capacity Control ..... **Cycled or Staged Capacity - Fan On**

Supply Fan Data:

Fan Type ..... **ASHRAE 90.1 App G Fan Curve**
Configuration ..... **Draw-thru**
Fan Performance ..... **ASHRAE Std 90.1-2010 Appendix G Fan kW**

ASHRAE Std 90.1-2010 Baseline Fan Adjustment Factor Components:

None

Fan Control ..... **1-speed fan, cooling and heating**

Duct System Data:

Supply Duct Data:

Duct Heat Gain ..... **0** %
Duct Leakage ..... **0** %

Return Duct or Plenum Data:

Return Air Via ..... **Ducted Return**

3. Zone Components:

Space Assignments:

Zone 1: Medical Offices	
12 Exam Room	x1
13 Business Office	x1
14 Waiting	x1
16 RR	x1
17 Private RR	x1
18 Doctors Office	x1
19 RR	x1
20 Nurse Station	x1
21 Breakroom	x1
22 Staff RR	x1
23 Procedure	x1
24 AHU Closet	x1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (°F)	Cooling T-Stat Unocc. (°F)	Heating T-Stat Occ. (°F)	Heating T-Stat Unocc. (°F)	T-Stat Throttling Range (°F)	Diversity Factor (%)	Direct Exhaust Airflow (CFM)	Direct Exhaust Fan (kW)
1	72.0	72.0	68.0	68.0	1.00	100	0.0	0.0

Thermostat Schedule ..... **T-stat**
Unoccupied Cooling is ..... **Available**

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Fan Performance	Fan Efficiency	Design Supply Temp.
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

Zone Heating Units:

Zone Unit Heat Source ..... **Electric Resistance**
Zone Heating Unit Schedule ..... **JFMAMJJASOND**

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature ..... **58.0** °F
Supply Fan Airflow ..... **2505.7** CFM
Ventilation Airflow ..... **194.3** CFM
Heating Supply Temperature ..... **95.0** °F

Hydronic Sizing Specifications:

Chilled Water Delta-T ..... **10.0** °F
Hot Water Delta-T ..... **20.0** °F

Safety Factors:

Cooling Sensible ..... **10** %
Cooling Latent ..... **10** %
Heating ..... **10** %

Zone Sizing Data:

Zone Airflow Sizing Method ..... **Sum of space airflow rates**
Space Airflow Sizing Method ..... **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	- (CFM)
1	2505.7	-	-	

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load ..... **58.8** MBH
Design OAT ..... **95.0** °F
Equipment Sizing ..... **Auto-Sized**
Capacity Oversizing Factor ..... **0** %
ARI Performance Rating ..... **11.000** EER
DX System Configuration ..... **1-stage compression, 1 circuit**
Conventional Cutoff OAT ..... **55.0** °F
Low Temperature Operation ..... **Used**
Low Temperature Cutoff OAT ..... **0.0** °F

1. General Details:

Air System Name **AHU-2 CU-2**
Equipment Type ..... **Split AHU**
Air System Type ..... **Single Zone CAV**
Number of zones **1**

2. Ventilation System Components:

Ventilation Air Data:

Airflow Control ..... **Constant Ventilation Airflow**
Ventilation Sizing Method ..... **Sum of Space OA Airflows**
Unocc. Damper Position ..... **Closed**
Damper Leak Rate ..... **0** %
Outdoor Air CO2 Level ..... **400** ppm

Central Cooling Data:

Supply Air Temperature ..... **58.0** °F
Coil Bypass Factor **0.100**
Cooling Source ..... **Air-Cooled DX**
Schedule ..... **JFMAMJJASOND**
Capacity Control ..... **Cycled or Staged Capacity - Fan On**

Central Heating Data:

Supply Temperature ..... **95.0** °F
Heating Source ..... **Electric Resistance**
Schedule ..... **JFMAMJJASOND**
Capacity Control ..... **Cycled or Staged Capacity - Fan On**

Supply Fan Data:

Fan Type ..... **ASHRAE 90.1 App G Fan Curve**
Configuration ..... **Draw-thru**
Fan Performance ..... **ASHRAE Std 90.1-2010 Appendix G Fan kW**

ASHRAE Std 90.1-2010 Baseline Fan Adjustment Factor Components:

None

Fan Control ..... **1-speed fan, cooling and heating**

Duct System Data:

Supply Duct Data:

Duct Heat Gain ..... **0** %
Duct Leakage ..... **0** %

Return Duct or Plenum Data:

Return Air Via ..... **Ducted Return**

3. Zone Components:

Space Assignments:

Zone 1: Backside	
15 Check In Office	x1
1 Exam Room	x1
2 Exam Room Corner	x1
3 Exam Room	x1
4 Exam Room	x1
5 Exam Room	x1
6 Exam Room	x1
7 Exam Room	x1
8 Exam Room	x1
9 Exam Room	x1
10 Exam Room	x1
11 Exam Room	x1
25 Hallways	x1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (°F)	Cooling T-Stat Unocc. (°F)	Heating T-Stat Occ. (°F)	Heating T-Stat Unocc. (°F)	T-Stat Throttling Range (°F)	Diversity Factor (%)	Direct Exhaust Airflow (CFM)	Direct Exhaust Fan (kW)

1	72.0	72.0	68.0	68.0	1.00	100	0.0	0.0

Thermostat Schedule ..... **T-stat**
Unoccupied Cooling is ..... **Available**

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Fan Performance	Fan Efficiency	Design Supply Temp.
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

Zone Heating Units:

Zone Unit Heat Source ..... **Electric Resistance**
Zone Heating Unit Schedule ..... **JFMAMJJASOND**

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature ..... **58.0** °F
Supply Fan Airflow ..... **2435.0** CFM
Ventilation Airflow ..... **195.9** CFM
Heating Supply Temperature ..... **95.0** °F

Hydronic Sizing Specifications:

Chilled Water Delta-T ..... **10.0** °F
Hot Water Delta-T ..... **20.0** °F

Safety Factors:

Cooling Sensible ..... **10** %
Cooling Latent ..... **10** %
Heating ..... **10** %

Zone Sizing Data:

Zone Airflow Sizing Method ..... **Sum of space airflow rates**
Space Airflow Sizing Method ..... **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	- (CFM)
1	2435.0	-	-	

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load ..... **58.3** MBH
Design OAT ..... **95.0** °F
Equipment Sizing ..... **Auto-Sized**
Capacity Oversizing Factor ..... **0** %
ARI Performance Rating ..... **11.000** EER
DX System Configuration ..... **1-stage compression, 1 circuit**
Conventional Cutoff OAT ..... **55.0** °F
Low Temperature Operation ..... **Used**
Low Temperature Cutoff OAT ..... **0.0** °F

1 Exam Room

1. General Details:

Floor Area	**115.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
W	100.0	1	0	0

3.1. Construction Types for Exposure W

Wall Type	**Stucco + Sheathing + R-11 Batt**
1st Window Type	**3x5 Window**
1st Window Shade Type	**Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	115.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**115.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

10 Exam Room

1. General Details:

Floor Area	**105.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	105.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**105.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

11 Exam Room

1. General Details:

Floor Area	**105.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	105.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**105.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

12 Exam Room

1. General Details:

Floor Area	**105.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**0.15**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	105.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**105.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

13 Business Office

1. General Details:

Floor Area ..... **275.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:

Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:

2.1. Overhead Lighting:

Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:

Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:

Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:

Occupancy ..... **5.0** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:

Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	180.0	1	1	0

3.1. Construction Types for Exposure S

Wall Type ..... **Stucco + Sheathing + R-11 Batt**
1st Window Type ..... **3x5 Window**
1st Window Shade Type ..... **Reveal**
2nd Window Type ..... **Store Front**
2nd Window Shade Type ..... **Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	275.0	0	0

4.1. Construction Types for Exposure H

Roof Type ..... **Roof**

5. Infiltration:

Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:

Type ..... **Slab Floor On Grade**
Floor Area ..... **275.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

14 Waiting

1. General Details:
Floor Area ..... **700.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.00** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **20.0** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	320.0	3	1	0

3.1. Construction Types for Exposure S
Wall Type ..... **Stucco + Sheathing + R-11 Batt**
1st Window Type ..... **3x5 Window**
1st Window Shade Type ..... **Reveal**
2nd Window Type ..... **Store Front**
2nd Window Shade Type ..... **Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	700.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **700.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

15 Check In Office

1. General Details:

Floor Area	**290.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**3.00**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**3.0**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	290.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**290.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

16 RR

1. General Details:
Floor Area ..... **60.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.0** CFM
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.65** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **0.0** Person
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:
(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	60.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **60.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

17 Private RR

1. General Details:
Floor Area ..... **60.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.0** CFM
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.65** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **0.0** Person
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	60.0	0	0	0

3.1. Construction Types for Exposure S
Wall Type ..... **Stucco + Sheathing + R-11 Batt**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	60.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **60.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

18 Doctors Office

1. General Details:

Floor Area ..... **225.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:

Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:

2.1. Overhead Lighting:

Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:

Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:

Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:

Occupancy ..... **1.0** Person
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:

Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	135.0	1	0	0

3.1. Construction Types for Exposure S

Wall Type ..... **Stucco + Sheathing + R-11 Batt**
1st Window Type ..... **3x5 Window**
1st Window Shade Type ..... **Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	225.0	0	0

4.1. Construction Types for Exposure H

Roof Type ..... **Roof**

5. Infiltration:

Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:

Type ..... **Slab Floor On Grade**
Floor Area ..... **225.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

19 RR

1. General Details:
Floor Area ..... **60.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.0** CFM
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.65** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **0.0** Person
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:
(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	60.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **60.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

2 Exam Room Corner

1. General Details:

Floor Area	**125.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
W	140.0	0	0	0
N	100.0	1	0	0

3.1. Construction Types for Exposure W

Wall Type **Stucco + Sheathing + R-11 Batt**

3.2. Construction Types for Exposure N

Wall Type	**Stucco + Sheathing + R-11 Batt**
1st Window Type	**3x5 Window**
1st Window Shade Type	**Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	115.0	0	0

4.1. Construction Types for Exposure H

Roof Type **Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**115.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

20 Nurse Station

1. General Details:
Floor Area ..... **115.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **3.0** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:
(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	115.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **115.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

21 Breakroom

1. General Details:

Floor Area	**160.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**0.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.0**	Person
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	85.0	1	0	0

3.1. Construction Types for Exposure S

Wall Type	**Stucco + Sheathing + R-11 Batt**
1st Window Type	**3x5 Window**
1st Window Shade Type	**Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	225.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**160.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

22 Staff RR

1. General Details:
Floor Area ..... **70.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.0** CFM
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.65** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **0.0** Person
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	120.0	0	0	0
W	60.0	0	0	0

3.1. Construction Types for Exposure S
Wall Type ..... **Stucco + Sheathing + R-11 Batt**

3.2. Construction Types for Exposure W
Wall Type ..... **Stucco + Sheathing + R-11 Batt**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	70.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **70.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

23 Procedure

1. General Details:

Floor Area ..... **200.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:

Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:

2.1. Overhead Lighting:

Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:

Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:

Wattage ..... **0.15** W/ft²
Schedule ..... **Office Schedule**

2.4. People:

Occupancy ..... **6.0** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:

Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
W	150.0	0	0	0

3.1. Construction Types for Exposure W

Wall Type ..... **Stucco + Sheathing + R-11 Batt**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	200.0	0	0

4.1. Construction Types for Exposure H

Roof Type ..... **Roof**

5. Infiltration:

Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:

Type ..... **Slab Floor On Grade**
Floor Area ..... **200.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

24 AHU Closet

1. General Details:
Floor Area ..... **40.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.0** CFM
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:

2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.65** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.00** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **0.0** Person
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:
(No Wall, Window, Door data).

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	40.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **40.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

25 Hallways

1. General Details:
Floor Area ..... **790.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **0.0** CFM
OA Requirement 2 ..... **0.0** CFM
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.65** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **0.00** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **2.0** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
E	50.0	0	0	1
N	50.0	0	0	1

3.1. Construction Types for Exposure E
Wall Type ..... **Stucco + Sheathing + R-11 Batt**
Door Type ..... **Metal Door**

3.2. Construction Types for Exposure N
Wall Type ..... **Stucco + Sheathing + R-11 Batt**
Door Type ..... **Metal Door**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	790.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **790.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

3 Exam Room

1. General Details:

Floor Area	**105.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	90.0	1	0	0

3.1. Construction Types for Exposure N

Wall Type	**Stucco + Sheathing + R-11 Batt**
1st Window Type	**3x5 Window**
1st Window Shade Type	**Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	105.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**105.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

4 Exam Room

1. General Details:

Floor Area ..... **120.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:

Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:

2.1. Overhead Lighting:

Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:

Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:

Wattage ..... **1.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:

Occupancy ..... **1.5** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:

Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	90.0	1	0	0

3.1. Construction Types for Exposure N

Wall Type ..... **Stucco + Sheathing + R-11 Batt**
1st Window Type ..... **3x5 Window**
1st Window Shade Type ..... **Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	120.0	0	0

4.1. Construction Types for Exposure H

Roof Type ..... **Roof**

5. Infiltration:

Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:

Type ..... **Slab Floor On Grade**
Floor Area ..... **120.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

5 Exam Room

1. General Details:

Floor Area ..... **120.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:

Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:

2.1. Overhead Lighting:

Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:

Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:

Wattage ..... **1.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:

Occupancy ..... **1.5** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:

Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	90.0	1	0	0

3.1. Construction Types for Exposure N

Wall Type ..... **Stucco + Sheathing + R-11 Batt**
1st Window Type ..... **3x5 Window**
1st Window Shade Type ..... **Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	120.0	0	0

4.1. Construction Types for Exposure H

Roof Type ..... **Roof**

5. Infiltration:

Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:

Type ..... **Slab Floor On Grade**
Floor Area ..... **120.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

6 Exam Room

1. General Details:
Floor Area ..... **150.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **1.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **1.5** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	110.0	1	0	0

3.1. Construction Types for Exposure N
Wall Type ..... **Stucco + Sheathing + R-11 Batt**
1st Window Type ..... **3x5 Window**
1st Window Shade Type ..... **Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	150.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **150.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

7 Exam Room

1. General Details:

Floor Area	**140.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	120.0	1	0	0

3.1. Construction Types for Exposure N

Wall Type	**Stucco + Sheathing + R-11 Batt**
1st Window Type	**3x5 Window**
1st Window Shade Type	**Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	140.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**140.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

8 Exam Room

1. General Details:

Floor Area	**160.0**	ft²
Avg. Ceiling Height	**9.0**	ft
Building Weight	**70.0**	lb/ft²

1.1. OA Ventilation Requirements:

Space Usage	**User-Defined**	
OA Requirement 1	**5.0**	CFM/person
OA Requirement 2	**0.06**	CFM/ft²
Space Usage Defaults	**ASHRAE Standard 62.1-2010**	

2. Internals:

2.1. Overhead Lighting:

Fixture Type	**Recessed (Unvented)**	
Wattage	**0.80**	W/ft²
Ballast Multiplier	**1.00**	
Schedule	**Office Schedule**	

2.2. Task Lighting:

Wattage	**0.00**	W/ft²
Schedule	**None**	

2.3. Electrical Equipment:

Wattage	**1.50**	W/ft²
Schedule	**Office Schedule**	

2.4. People:

Occupancy	**1.5**	People
Activity Level	**Office Work**	
Sensible	**245.0**	BTU/hr/person
Latent	**205.0**	BTU/hr/person
Schedule	**Office Schedule**	

2.5. Miscellaneous Loads:

Sensible	**0**	BTU/hr
Schedule	**None**	
Latent	**0**	BTU/hr
Schedule	**None**	

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	120.0	1	0	0

3.1. Construction Types for Exposure N

Wall Type	**Stucco + Sheathing + R-11 Batt**
1st Window Type	**3x5 Window**
1st Window Shade Type	**Reveal**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	160.0	0	0

4.1. Construction Types for Exposure H

Roof Type	**Roof**

5. Infiltration:

Design Cooling	**0.00**	CFM
Design Heating	**0.00**	CFM
Energy Analysis	**0.00**	CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type	**Slab Floor On Grade**	
Floor Area	**160.0**	ft²
Total Floor U-Value	**0.100**	BTU/(hr·ft²·°F)
Exposed Perimeter	**0.0**	ft
Edge Insulation R-Value	**0.00**	(hr·ft²·°F)/BTU

7. Partitions:

(No partition data).

9 Exam Room

1. General Details:
Floor Area ..... **105.0** ft²
Avg. Ceiling Height ..... **9.0** ft
Building Weight ..... **70.0** lb/ft²

1.1. OA Ventilation Requirements:
Space Usage ..... **User-Defined**
OA Requirement 1 ..... **5.0** CFM/person
OA Requirement 2 ..... **0.06** CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. Internals:
2.1. Overhead Lighting:
Fixture Type ..... **Recessed (Unvented)**
Wattage ..... **0.80** W/ft²
Ballast Multiplier **1.00**
Schedule ..... **Office Schedule**

2.2. Task Lighting:
Wattage ..... **0.00** W/ft²
Schedule ..... **None**

2.3. Electrical Equipment:
Wattage ..... **1.50** W/ft²
Schedule ..... **Office Schedule**

2.4. People:
Occupancy ..... **1.5** People
Activity Level ..... **Office Work**
Sensible ..... **245.0** BTU/hr/person
Latent ..... **205.0** BTU/hr/person
Schedule ..... **Office Schedule**

2.5. Miscellaneous Loads:
Sensible ..... **0** BTU/hr
Schedule ..... **None**
Latent ..... **0** BTU/hr
Schedule ..... **None**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	120.0	0	0	0

3.1. Construction Types for Exposure N
Wall Type ..... **Stucco + Sheathing + R-11 Batt**

4. Roofs, Skylights:

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	105.0	0	0

4.1. Construction Types for Exposure H
Roof Type ..... **Roof**

5. Infiltration:
Design Cooling ..... **0.00** CFM
Design Heating ..... **0.00** CFM
Energy Analysis ..... **0.00** CFM
Infiltration occurs only when the fan is off.

6. Floors:
Type ..... **Slab Floor On Grade**
Floor Area ..... **105.0** ft²
Total Floor U-Value ..... **0.100** BTU/(hr·ft²·°F)
Exposed Perimeter ..... **0.0** ft
Edge Insulation R-Value ..... **0.00** (hr·ft²·°F)/BTU

7. Partitions:
(No partition data).

Stucco + Sheathing + R-11 Batt

Wall Details

Outside Surface Color ..... **Dark**
Absorptivity **0.900**
Overall U-Value ..... **0.070** BTU/(hr·ft²·°F)

Wall Layers Details (Inside to Outside)

Layers	Thickness in	Density lb/ft³	Specific Ht. BTU / (lb·°F)	R-Value (hr·ft²·°F)/BTU	Weight lb/ft²
Inside surface resistance	0.000	0.0	0.00	0.68500	0.0
1/2-in gypsum board	0.500	50.0	0.26	0.44803	2.1
R-11 batt insulation	3.500	0.5	0.20	11.21795	0.1
Sheathing	0.500	70.0	0.35	1.43678	2.9
1-in stucco	1.000	116.0	0.20	0.19984	9.7
Outside surface resistance	0.000	0.0	0.00	0.33300	0.0
Totals	**5.500**	**-**		**14.32060**	**14.8**

3x5 Window

Window Details:

Detailed Input	**No**	
Height	**5.00**	ft
Width	**3.00**	ft
Overall U-Value	**0.500**	BTU/(hr·ft²·°F)
Overall Shade Coefficient	**0.400**	

Store Front

Window Details:

Detailed Input	**Yes**	
Height	**7.00**	ft
Width	**4.00**	ft
Frame Type	**Aluminum without thermal breaks**	
Internal Shade Type	**None**	
Overall U-Value	**1.228**	BTU/(hr·ft²·°F)
Overall Shade Coefficient	**0.916**	

Glass Details:

Gap Type ..... **1/4" Air Space**

Glazing	Glass Type	Transmissivity	Reflectivity	Absorptivity
Outer Glazing	1/8" clear	0.841	0.078	0.081
Glazing #2	not used	1.000	0.000	0.000
Glazing #3	not used	1.000	0.000	0.000

Roof Constructions

Roof

Roof Details

Outside Surface Color ..... **Dark**
Absorptivity **0.900**
Overall U-Value ..... **0.038** BTU/(hr·ft²·°F)

Roof Layers Details (Inside to Outside)

Layers	Thickness in	Density lb/ft³	Specific Ht. BTU / (lb·°F)	R-Value (hr·ft²·°F)/BTU	Weight lb/ft²
Inside surface resistance	0.000	0.0	0.00	0.68500	0.0
Steel deck	0.034	489.0	0.12	0.00011	1.4
R-25 batt insulation	7.800	0.5	0.20	25.00000	0.3
Built-up roofing	0.150	70.0	0.35	0.13298	0.9
Outside surface resistance	0.000	0.0	0.00	0.33300	0.0
Totals	**7.984**	**-**		**26.15109**	**2.6**

Design Parameters:

City Name	**Lake City**	
Location	**Florida**	
Latitude	**30.5**	Deg.
Longitude	**81.7**	Deg.
Elevation	**30.0**	ft
Summer Design Dry-Bulb	**94.0**	°F
Summer Coincident Wet-Bulb	**77.0**	°F
Summer Daily Range	**17.8**	°F
Winter Design Dry-Bulb	**29.0**	°F
Winter Design Wet-Bulb	**24.4**	°F
Atmospheric Clearness Number	**0.90**	
Average Ground Reflectance	**0.20**	
Soil Conductivity	**0.800**	BTU/(hr·ft·°F)
Local Time Zone (GMT +/- N hours)	**5.0**	hours
Consider Daylight Savings Time	**No**	
Simulation Weather Data	**N/A**	
Current Data is	**User Modified**	
Design Cooling Months	**January to December**	

Design Day Maximum Solar Heat Gains

(The MSHG values are expressed in BTU/(hr·ft²))

Month	N	NNE	NE	ENE	E	ESE	SE	SSE	S
January	21.8	21.8	29.5	95.1	162.7	208.0	225.4	223.2	219.1
February	25.1	25.1	63.9	135.4	185.2	220.3	221.2	205.4	194.0
March	28.8	34.0	101.2	166.9	205.2	213.7	202.3	171.2	152.0
April	32.2	73.6	134.5	180.9	204.2	196.4	165.2	121.2	96.4
May	35.4	101.3	154.9	186.4	197.0	178.3	134.7	83.3	60.5
June	43.9	110.9	159.4	187.9	192.5	168.6	121.5	69.1	49.8
July	36.3	100.6	150.2	185.7	193.8	173.1	132.1	81.1	59.0
August	33.7	72.8	129.6	176.6	197.2	188.1	159.7	116.9	93.2
September	29.7	32.5	95.0	156.4	195.9	205.6	194.5	166.2	148.2
October	25.8	25.8	58.8	130.0	183.5	208.3	216.2	200.6	188.2
November	22.0	22.0	24.9	99.3	157.1	203.2	223.0	221.9	215.5
December	20.3	20.3	20.3	82.8	148.5	199.7	221.8	226.7	224.8
Month	**SSW**	**SW**	**WSW**	**W**	**WNW**	**NW**	**NNW**	**HOR**	**Mult**
January	224.8	225.4	207.8	157.7	100.6	26.7	21.8	165.3	1.00
February	206.8	223.6	215.8	190.1	136.2	57.2	25.1	200.7	1.00
March	171.3	202.3	214.7	206.1	165.6	99.6	34.3	231.2	1.00
April	121.4	165.8	194.9	204.4	182.7	133.3	73.4	246.2	1.00
May	83.8	136.1	177.1	198.1	189.4	152.6	100.7	250.2	1.00
June	69.2	121.9	168.4	192.8	188.7	158.5	110.8	249.4	1.00
July	80.9	131.5	173.7	193.4	184.5	151.4	101.0	246.8	1.00
August	117.0	159.7	187.9	197.2	176.7	129.9	72.7	241.1	1.00
September	165.6	193.9	206.5	192.1	157.9	98.4	30.1	223.4	1.00
October	198.9	213.7	212.7	181.6	126.0	63.2	25.8	196.2	1.00
November	221.1	223.2	202.8	161.3	92.5	29.5	22.0	163.7	1.00
December	226.4	223.4	198.9	150.4	78.5	20.3	20.3	149.7	1.00

Mult. = User-defined solar multiplier factor.