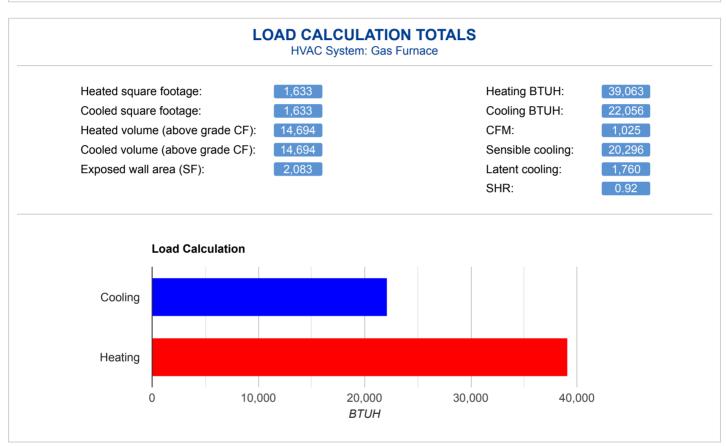


Project Name:

Address:

OUTDOOR DESIGN CONDITIONS Weather station: Ronald Reagan AP Summer Outdoor F: 92 Summer Indoor F: 76 Design Grains: 41 Daily Range: Medium Winter Outdoor F: 20 Winter Indoor F: 68 Cooling RH: 50 Elevation (Ft): 66



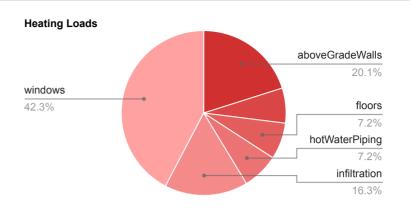
Approved ACCA MJ8 Calculations

Calculations are based on the ACCA Manual J 8th Edition and are approved by ACCA. All computed calculations are estimates on building use, weather data, and inputted values such a R-Values, window types, duct loss, etc. Equipment selections should meet both the latent and sensible gain as well as building heat loss.

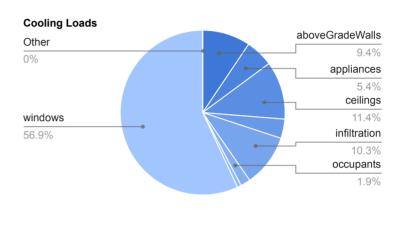


HEATING AND COOLING LOADS

HEATING LOADS					
SECTION	AREA	HEAT LOSS			
aboveGradeWalls	1,687.2	7,856			
ceilings	1,190.1	2,685			
floors	504.4	2,797			
hotWaterPiping	0	2,803			
infiltration	0	6,385			
skylights	0	0			
windows	396	16,537			
Totals		39,063			

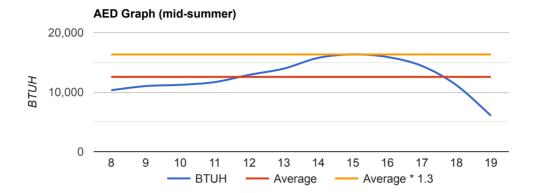


COOLING LOADS						
SECTION	AREA	SENSIBLE	LATENT			
AEDExcursion	0	4	0			
aboveGradeWalls	1,687.2	2,078	0			
appliances	0	1,200	0			
ceilings	1,190.1	2,517	0			
floors	504.4	833	0			
infiltration	0	877	1,390			
occupants	0	230	200			
plants	0	0	170			
skylights	0	0	0			
windows	396	12,555	0			
Totals		20,296	1,760			

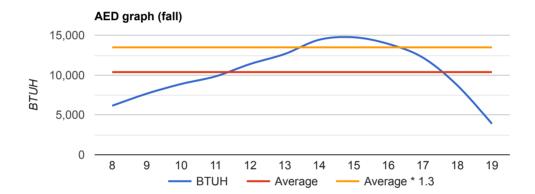


FENESTRATION LOADS

Warning (0): This application has glass areas that produced relatively large cooling loads for part of the day. Zoning may be required to overcome spikes in solar load for one or more rooms. A zoned system may be required, or some rooms may require zone control (provided by individual, motorized, thermostatically controlled dampers).



This graph represents hourly aggregrate fenestration loads in mid-summer.



This graph represents hourly aggregrate fenestration loads in October.

COMPONENT LOADS

	ABOVE GRADE WALLS							
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	N	Heating BTUH:	903		
	U Value:	0.097	Area:	194	Cooling BTUH:	239		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	NE	Heating BTUH:	1,199		
	U Value:	0.097	Area:	257.5	Cooling BTUH:	317		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	SE	Heating BTUH:	1,054		
	U Value:	0.097	Area:	226.3	Cooling BTUH:	279		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	SW	Heating BTUH:	1,257		
	U Value:	0.097	Area:	269.9	Cooling BTUH:	332		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	NE	Heating BTUH:	1,115		
	U Value:	0.097	Area:	239.4	Cooling BTUH:	295		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	S	Heating BTUH:	606		
	U Value:	0.097	Area:	130.2	Cooling BTUH:	160		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	SW	Heating BTUH:	1,081		
	U Value:	0.097	Area:	232.2	Cooling BTUH:	286		
Map trace wall Frame Wall, Wood framing, R-11 cavity insulation, Brick Veneer.	Construction nr:	12B-0b w	Exposure:	NW	Heating BTUH:	641		
	U Value:	0.097	Area:	137.7	Cooling BTUH:	170		

BELOW GRADE WALLS

There are no components for this section.

WINDOWS						
Default small windows for wall id 5892341 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 232
Default medium windows for wall id 5892341 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 N	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,503 697
Default small windows for wall id 5892342 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 NE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 289
Default medium windows for wall id 5892342 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 NE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 289
Default large windows for wall id 5892342 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 NE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,503 868
Default small windows for wall id 5892343 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 SE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	251 239

WINDOWS							
Default medium windows for wall id 5892343 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 SE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 477	
Default large windows for wall id 5892343 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 SE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,503 1,432	
Default small windows for wall id 5892344 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 SW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 502	
Default medium windows for wall id 5892344 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 SW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 502	
Default large windows for wall id 5892344 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 SW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,503 1,507	
Default small windows for wall id 5892274 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 NE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	251 138	
Default medium windows for wall id 5892274 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 NE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 283	
Default large windows for wall id 5892274 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 NE	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,503 855	
Default small windows for wall id 5892275 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 S	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	251 208	
Default medium windows for wall id 5892275 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 24 S	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,002 845	
Default small windows for wall id 5892276 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 SW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	251 241	
Default medium windows for wall id 5892276 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 SW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 492	
Default large windows for wall id 5892276 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 SW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,503 1,486	
Default small windows for wall id 5892273 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 NW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	501 320	
Default medium windows for wall id 5892273 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 24 NW	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,002 652	

Window cooling BTUHs shown here are daily average values. See AED graphs for details of fenestration loads during the day.

CEILINGS						
Map trace generated ceiling Ceiling below roof joists, Asphalt shingles, Dark, R-21.	Construction nr: U Value:	18A-21 ad 0.047	Area:	515	Heating BTUH: Cooling BTUH:	1,162 1,089
Map trace generated ceiling Ceiling below roof joists, Asphalt shingles, Dark, R-21.	Construction nr: U Value:	18A-21 ad 0.047	Area:	675.1	Heating BTUH: Cooling BTUH:	1,523 1,428

SKYLIGHTS

There are no components for this section.

Skylight cooling BTUHs shown here are daily average values. See AED graphs for details of fenestration loads during the day.

DOORS

There are no components for this section.

FLOORS						
Map trace generated floor						
Floor over enclosed unconditioned crawl space or basement, no floor insulation, Carpet or hardwood.	Construction nr: Area:	19A-0cp 504.4	Heating U Value:0.295 Cooling U Value:0.295	Heating BTUH: Cooling BTUH: F Value:	2,797 833 N/A	

VENTILATION

There are no components for this section.

HOT WATER PIPING						
1/2 inch Copper; None	F-Value:	0.35	Length:	65	Heating BTUH:	2,803

DUCTS

There are no components for this section.

	INFILTRATION	
Leakage Category: Average	NCFM Heating: 138 NCFM Cooling: 57	Heating BTUH: 6,385 Sensible BTUH: 877 Latent BTUH: 1,390

BLOWER MOTOR

There are no components for this section.

WINTER HUMIDIFICATION

There are no components for this section.

	OCCUPANTS	
Nr. Occupants: 1	Sensible BTUH: 230	Latent BTUH: 200

	APPLIANCES	
Small kitchen: 1,200 BTUH	Quantity:	Sensible BTUH: 1,200 Latent BTUH:

		PLANTS			
Plant Size:	small	Quantity:	3	Latent BTUH:	30
Plant Size:	medium	Quantity:	4	Latent BTUH:	80
Plant Size:	large	Quantity:	2	Latent BTUH:	60

ROOM DETAIL

Room name: second floor

Heated square footage:

Cooled square footage:

Heated volume (above grade CF):

Cooled volume (above grade CF):

Exposed wall area (SF):

Total Cooling BTUH:

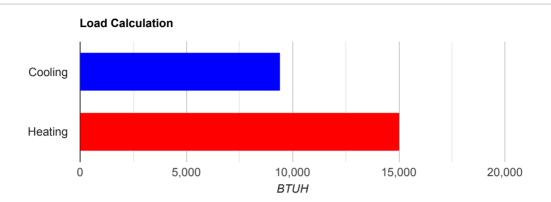
Total Heating BTUH:

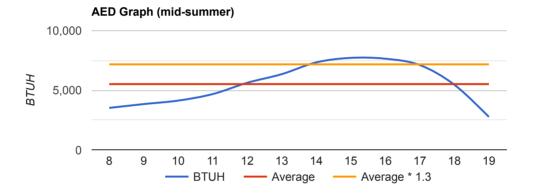
CFM:

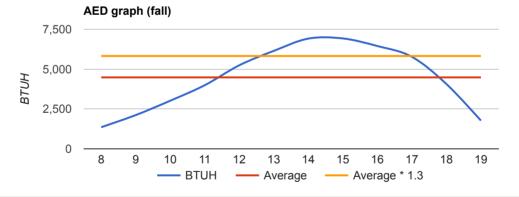
9,396

15.032

443







ROOM DETAIL

Room name: First Floor

Heated square footage:

Cooled square footage:

Heated volume (above grade CF):

Cooled volume (above grade CF):

Exposed wall area (SF):

1,037 Total Cooling BTUH:

Total Heating BTUH:

CFM:

11,398

21.228

____5

