

**Project Name:** Barndominium

**Address:** 174 NW Rowan Tree Terrace, Lake City, FL

## OUTDOOR DESIGN CONDITIONS

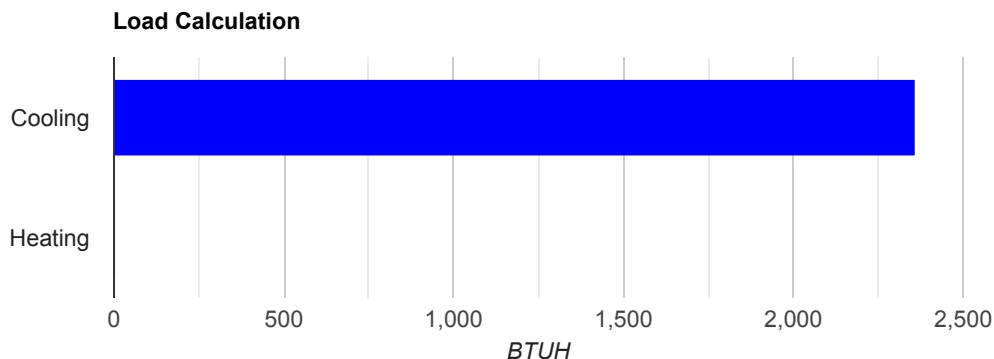
Weather station: Gainesville Regional AP

Summer Outdoor F:	92	Summer Indoor F:	75	Design Grains:	47	Daily Range:	Medium
Winter Outdoor F:	33	Winter Indoor F:	70	Cooling RH:	50	Elevation (Ft):	164

## LOAD CALCULATION TOTALS

HVAC System: Tbd

Heated square footage:	0	Heating BTUH:	0
Cooled square footage:	0	Cooling BTUH:	2,360
Heated volume (above grade CF):	0	CFM:	68
Cooled volume (above grade CF):	0	Sensible cooling:	1,660
Exposed wall area (SF):	0	Latent cooling:	700
		SHR:	0.703



## 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 as 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

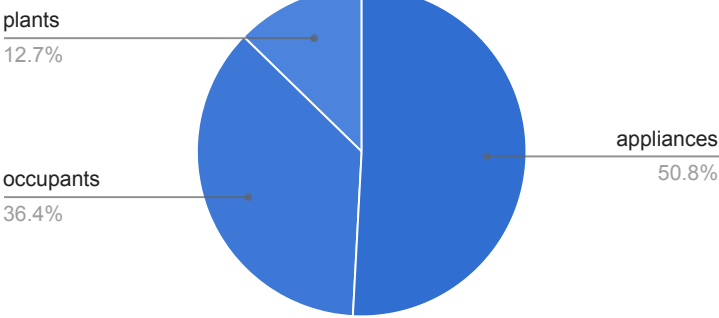
HEATING LOADS		
SECTION	AREA	HEAT LOSS
infiltration	0	0
skylights	0	0
windows	0	0
Totals		0

Heating Loads

No data

COOLING LOADS			
SECTION	AREA	SENSIBLE	LATENT
AEDExcursion	0	0	0
appliances	0	1,200	0
infiltration	0	0	0
occupants	0	460	400
plants	0	0	300
skylights	0	0	0
windows	0	0	0
Totals		1,660	700

Cooling Loads



## FENESTRATION LOADS

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

This graph represents hourly aggregate fenestration loads in October.

## COMPONENT LOADS

### ABOVE GRADE WALLS

There are no components for this section.

### BELOW GRADE WALLS

There are no components for this section.

### WINDOWS

There are no components for this section.

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

### CEILINGS

There are no components for this section.

### 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

There are no components for this section.

### VENTILATION

There are no components for this section.

### HOT WATER PIPING

There are no components for this section.

### DUCTS

There are no components for this section.

### INFILTRATION

Leakage Category:	Average	NCFM Heating:	115	Heating BTUH:	0
		NCFM Cooling:	60	Sensible BTUH:	0
				Latent BTUH:	0

### BLOWER MOTOR

There are no components for this section.

### WINTER HUMIDIFICATION

There are no components for this section.

### OCCUPANTS

Nr. Occupants:	2	Sensible BTUH:	460	Latent BTUH:	400
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### APPLIANCES

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

PLANTS					
Plant Size:	small	Quantity:	5	Latent BTUH:	50
Plant Size:	medium	Quantity:	5	Latent BTUH:	100
Plant Size:	large	Quantity:	5	Latent BTUH:	150