

Project Name: 2678 SW CR 778 FORT WHITE, FL, 32038 - 2 STORY BARNDOMINIUM

Address: 2678 County Road 778, Fort White, FL

OUTDOOR DESIGN CONDITIONS

Weather station: Gainesville Regional AP

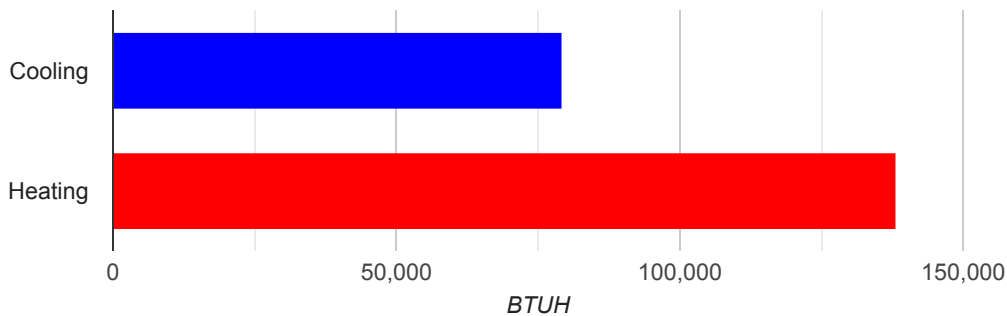
Summer Outdoor F:	92	Summer Indoor F:	75	Design Grains:	47	Daily Range:	Medium
Winter Outdoor F:	33	Winter Indoor F:	70	Cooling RH:	50	Elevation (Ft):	164

LOAD CALCULATION TOTALS

HVAC System: HVAC

Heated square footage:	6,737	Heating BTUH:	138,109
Cooled square footage:	6,737	Cooling BTUH:	79,254
Heated volume (above grade CF):	73,862	CFM:	3,018
Cooled volume (above grade CF):	73,862	Sensible cooling:	66,396
Exposed wall area (SF):	4,795	Latent cooling:	12,858
		SHR:	0.838

Load Calculation



Approved ACCA MJ8 Calculations

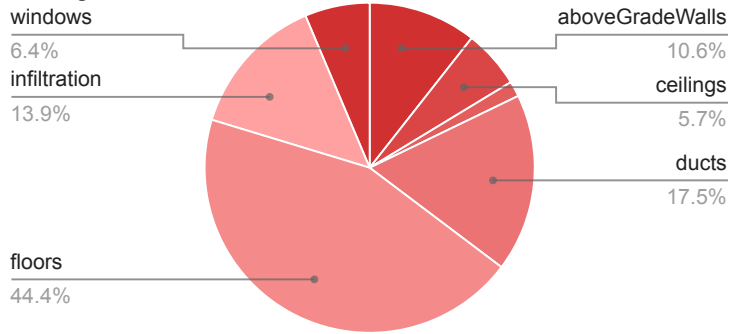
Calculations are based on the ACCA Manual J 8th Edition and are approved by ACCA. All computed calculations are estimates on building use, weather data, and inputted values such as R-Values, window types, duct loss, etc. Equipment selections should meet both the latent and sensible gain as well as building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



HEATING AND COOLING LOADS

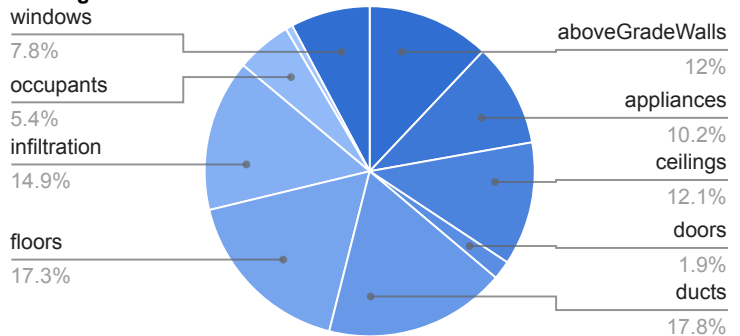
HEATING LOADS		
SECTION	AREA	HEAT LOSS
aboveGradeWalls	4,080.5	14,645
ceilings	7,360.2	7,897
doors	120	2,087
ducts	0	24,103
floors	6,737	61,331
infiltration	0	19,254
skylights	0	0
windows	594	8,791
Totals		138,109

Heating Loads



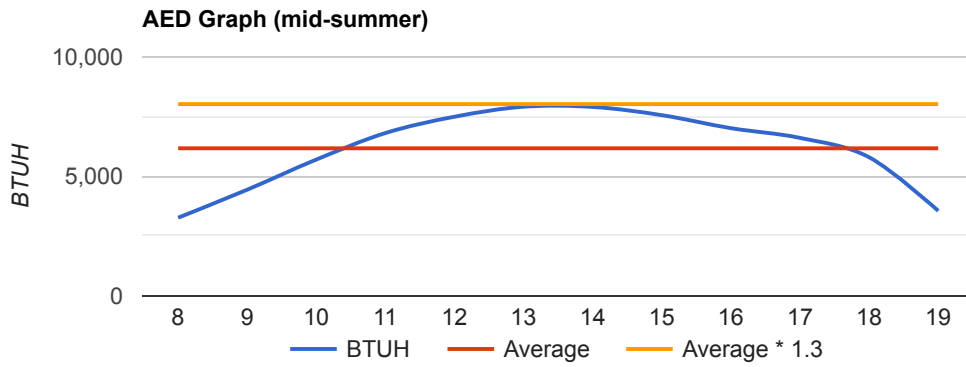
COOLING LOADS			
SECTION	AREA	SENSIBLE	LATENT
AEDExcursion	0	0	0
aboveGradeWalls	4,080.5	9,539	0
appliances	0	7,689	358
ceilings	7,360.2	9,605	0
doors	120	1,466	0
ducts	0	11,583	2,512
floors	6,737	13,694	0
infiltration	0	4,352	7,438
occupants	0	2,300	2,000
plants	0	0	550
skylights	0	0	0
windows	594	6,167	0
Totals		66,396	12,858

Cooling Loads

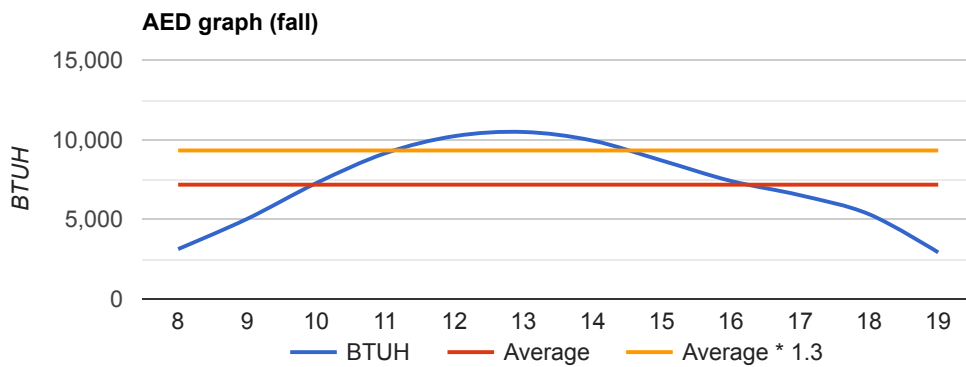


FENESTRATION LOADS

Warning (0): The sensible load for this application peaks during late fall or early winter. This behavior is caused by glass that faces SouthEast, South or SouthWest. Some rooms may be noticeably cooler or warmer than the temperature set point if zoning is not provided. Simultaneous heating and cooling may be required.



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



This graph represents hourly aggregate fenestration loads in October.

COMPONENT LOADS

ABOVE GRADE WALLS						
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 187.5	Heating BTUH: Cooling BTUH:	673 438
System generated wall - W Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	W 36	Heating BTUH: Cooling BTUH:	129 84
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 265.5	Heating BTUH: Cooling BTUH:	953 621
System generated wall - E Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	E 396	Heating BTUH: Cooling BTUH:	1,421 926
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 265.5	Heating BTUH: Cooling BTUH:	953 621
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 93	Heating BTUH: Cooling BTUH:	334 217
System generated wall - W Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	W 117	Heating BTUH: Cooling BTUH:	420 274
System generated wall - E Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	E 21	Heating BTUH: Cooling BTUH:	75 49
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 54	Heating BTUH: Cooling BTUH:	194 126
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 254	Heating BTUH: Cooling BTUH:	912 594
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 254	Heating BTUH: Cooling BTUH:	912 594
System generated wall - W Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	W 302	Heating BTUH: Cooling BTUH:	1,084 706
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 114	Heating BTUH: Cooling BTUH:	409 266
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 78	Heating BTUH: Cooling BTUH:	280 182

ABOVE GRADE WALLS

System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 102	Heating BTUH: Cooling BTUH:	366 238
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 63	Heating BTUH: Cooling BTUH:	226 147
System generated wall - W Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	W 93	Heating BTUH: Cooling BTUH:	334 217
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 140	Heating BTUH: Cooling BTUH:	502 327
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 132	Heating BTUH: Cooling BTUH:	474 309
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 54	Heating BTUH: Cooling BTUH:	194 126
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 135	Heating BTUH: Cooling BTUH:	485 316
System generated wall - E Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	E 153	Heating BTUH: Cooling BTUH:	549 358
System generated wall - N Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	N 114	Heating BTUH: Cooling BTUH:	409 266
System generated wall - W Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	W 84	Heating BTUH: Cooling BTUH:	301 196
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 294	Heating BTUH: Cooling BTUH:	1,055 687
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 60	Heating BTUH: Cooling BTUH:	215 140
System generated wall - E Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	E 171	Heating BTUH: Cooling BTUH:	614 400
System generated wall - S Frame Wall, Wood framing, R-11 cavity insulation, Stucco or Siding.	Construction nr: U Value:	12B-0s w 0.097	Exposure: Area:	S 48	Heating BTUH: Cooling BTUH:	172 112

BELOW GRADE WALLS

There are no components for this section.

WINDOWS

Default small windows for wall id 12201665 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 93
Default small windows for wall id 12201666 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 52
Default medium windows for wall id 12201666 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default small windows for wall id 12201667 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 E	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 179
Default medium windows for wall id 12201667 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 E	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 179
Default small windows for wall id 12201668 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 46
Default medium windows for wall id 12201668 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 104
Default small windows for wall id 12201573 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default medium windows for wall id 12201573 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default small windows for wall id 12201495 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 64
Default medium windows for wall id 12201495 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 128
Default small windows for wall id 12201662 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 52
Default medium windows for wall id 12201662 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default small windows for wall id 12201664 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 46
Default medium windows for wall id 12201664 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 104
Default small windows for wall id 12201663 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 W	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 100
Default medium windows for wall id 12201663 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 W	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 200
Default small windows for wall id 12201513 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 52
Default medium windows for wall id 12201513 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 24 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	355 209
Default small windows for wall id 12201497 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default medium windows for wall id 12201497 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 48 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	710 418

WINDOWS

Default small windows for wall id 12201640 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 128
Default medium windows for wall id 12201640 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 128
Default small windows for wall id 12201635 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 W	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 100
Default small windows for wall id 12201660 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default small windows for wall id 12201661 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default small windows for wall id 12201496 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default medium windows for wall id 12201496 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 24 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	355 209
Default small windows for wall id 12201532 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 N	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 105
Default small windows for wall id 12201631 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 W	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 200
Default medium windows for wall id 12201631 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 W	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 200
Default small windows for wall id 12201502 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 6 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	89 64
Default medium windows for wall id 12201502 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	533 384
Default large windows for wall id 12201502 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 144 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	2,131 1,534
Default small windows for wall id 12201658 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 128
Default medium windows for wall id 12201658 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	0.4 0.25	Heating BTUH: Cooling BTUH:	178 128

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

CEILINGS

System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	408.9	Heating BTUH: Cooling BTUH:	439 534
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	37.4	Heating BTUH: Cooling BTUH:	40 49
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	1,223.2	Heating BTUH: Cooling BTUH:	1,312 1,596
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	47.6	Heating BTUH: Cooling BTUH:	51 62
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	181.2	Heating BTUH: Cooling BTUH:	194 236

CEILINGS

System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	84.9	Heating BTUH: Cooling BTUH:	91 111
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	166.5	Heating BTUH: Cooling BTUH:	179 217
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	215.2	Heating BTUH: Cooling BTUH:	231 281
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	1,540.3	Heating BTUH: Cooling BTUH:	1,653 2,010
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	105.3	Heating BTUH: Cooling BTUH:	113 137
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	40.8	Heating BTUH: Cooling BTUH:	44 53
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	68	Heating BTUH: Cooling BTUH:	73 89
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	77	Heating BTUH: Cooling BTUH:	83 100
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	11.3	Heating BTUH: Cooling BTUH:	12 15
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	181.2	Heating BTUH: Cooling BTUH:	194 236
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	87.2	Heating BTUH: Cooling BTUH:	94 114
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	408.9	Heating BTUH: Cooling BTUH:	439 534
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	158.6	Heating BTUH: Cooling BTUH:	170 207
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	367	Heating BTUH: Cooling BTUH:	394 479
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	40.8	Heating BTUH: Cooling BTUH:	44 53
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	345.4	Heating BTUH: Cooling BTUH:	371 451
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	190.3	Heating BTUH: Cooling BTUH:	204 248
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	163.1	Heating BTUH: Cooling BTUH:	175 213
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	808	Heating BTUH: Cooling BTUH:	867 1,054
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	235.6	Heating BTUH: Cooling BTUH:	253 307
System generated ceiling. Ceiling below roof joists, Metal, Dark, R-38.	Construction nr: U Value:	18A-38 md 0.029	Area:	166.5	Heating BTUH: Cooling BTUH:	179 217

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

Default doors for wall id 12201659 Wood Door, Hollow Core.	Construction nr: U Value:	11 0.47	Area: Exposure:	24 E	Heating BTUH: Cooling BTUH:	417 293
Default doors for wall id 12201497 Wood Door, Hollow Core.	Construction nr: U Value:	11 0.47	Area: Exposure:	24 N	Heating BTUH: Cooling BTUH:	417 293
Default doors for wall id 12201502 Wood Door, Hollow Core.	Construction nr: U Value:	11 0.47	Area: Exposure:	24 S	Heating BTUH: Cooling BTUH:	417 293
Default doors for wall id 12201658 Wood Door, Hollow Core.	Construction nr: U Value:	11 0.47	Area: Exposure:	24 S	Heating BTUH: Cooling BTUH:	417 293
Default doors for wall id 12201482 Wood Door, Hollow Core.	Construction nr: U Value:	11 0.47	Area: Exposure:	24 S	Heating BTUH: Cooling BTUH:	417 293

FLOORS

System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 417	Heating U Value: Cooling U Value:	0.385 0.385	Heating BTUH: Cooling BTUH: F Value:	5,940 1,605 N/A
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 33	Heating U Value: Cooling U Value:	0 0	Heating BTUH: Cooling BTUH: F Value:	181 0 1.221
System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 1,088	Heating U Value: Cooling U Value:	0.385 0.385	Heating BTUH: Cooling BTUH: F Value:	15,499 4,189 N/A
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 42	Heating U Value: Cooling U Value:	0 0	Heating BTUH: Cooling BTUH: F Value:	0 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 160	Heating U Value: Cooling U Value:	0 0	Heating BTUH: Cooling BTUH: F Value:	1,175 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 75	Heating U Value: Cooling U Value:	0 0	Heating BTUH: Cooling BTUH: F Value:	226 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 147	Heating U Value: Cooling U Value:	0 0	Heating BTUH: Cooling BTUH: F Value:	361 0 1.221
System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 190	Heating U Value: Cooling U Value:	0.385 0.385	Heating BTUH: Cooling BTUH: F Value:	2,707 732 N/A
System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 1,360	Heating U Value: Cooling U Value:	0.385 0.385	Heating BTUH: Cooling BTUH: F Value:	19,373 5,236 N/A

FLOORS

System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 93	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	361 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 36	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	0 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 324	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	813 0 1.221
System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 60	Heating U Value:0.385 Cooling U Value:0.385	Heating BTUH: Cooling BTUH: F Value:	855 231 N/A
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 68	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	0 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 10	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	0 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 160	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	632 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 77	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	813 0 1.221
System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 225	Heating U Value:0.385 Cooling U Value:0.385	Heating BTUH: Cooling BTUH: F Value:	3,205 866 N/A
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 140	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	0 0 1.221
System generated floor. Floor over open crawl space or garage, no floor insulation, Carpet or hardwood.	Construction nr: Area:	20P-0c 217	Heating U Value:0.385 Cooling U Value:0.385	Heating BTUH: Cooling BTUH: F Value:	3,091 835 N/A
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 36	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	271 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 323	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	1,626 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 168	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	632 0 1.221
System generated floor. Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 144	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	542 0 1.221

FLOORS

System generated floor.				
Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 784	Heating U Value:0 Cooling U Value:0	Heating BTUH: 1,265 Cooling BTUH: 0 F Value: 1.221
System generated floor.				
Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 208	Heating U Value:0 Cooling U Value:0	Heating BTUH: 542 Cooling BTUH: 0 F Value: 1.221
System generated floor.				
Concrete slab on grade floor, R-10 slab insulation.	Construction nr: Area:	22C-10ph 152	Heating U Value:0 Cooling U Value:0	Heating BTUH: 1,220 Cooling BTUH: 0 F Value: 1.221

VENTILATION

There are no components for this section.

HOT WATER PIPING

There are no components for this section.

DUCTS

System generated ducts (below conditioned space)				
Below Ground - Radial	EHLF:	0.047	Heating BTUH:	5,358
	ESGF:	0.081	Sensible BTUH:	4,443
	ELG:	0	Latent BTUH:	0
System generated ducts (above conditioned space)				
Closed Crawl Space - Radial	EHLF:	0.164	Heating BTUH:	18,745
	ESGF:	0.13	Sensible BTUH:	7,140
	ELG:	2,512	Latent BTUH:	2,512

INFILTRATION

Leakage Category:	Average	NCFM Heating:	475	Heating BTUH:	19,254
		NCFM Cooling:	234	Sensible BTUH:	4,352
				Latent BTUH:	7,438

BLOWER MOTOR

There are no components for this section.

WINTER HUMIDIFICATION

There are no components for this section.

OCCUPANTS

Nr. Occupants:	5	Sensible BTUH:	1,150	Latent BTUH:	1,000
Nr. Occupants:	5	Sensible BTUH:	1,150	Latent BTUH:	1,000

APPLIANCES

Color television	Quantity:	1	Sensible BTUH:	683
			Latent BTUH:	0
Computer and monitor	Quantity:	1	Sensible BTUH:	538
			Latent BTUH:	0
Light Fixture - 100W	Quantity:	3	Sensible BTUH:	1,023
			Latent BTUH:	0
Color television	Quantity:	1	Sensible BTUH:	683
			Latent BTUH:	0
Computer and monitor	Quantity:	1	Sensible BTUH:	538
			Latent BTUH:	0
Light Fixture - 100W	Quantity:	3	Sensible BTUH:	1,023
			Latent BTUH:	0
Range with hood and exhaust to outdoors	Quantity:	1	Sensible BTUH:	0
			Latent BTUH:	0

APPLIANCES

Dishwasher	Quantity:	1	Sensible BTUH:	1,024
			Latent BTUH:	358
Refrigerator or Freezer - 16CuFt	Quantity:	1	Sensible BTUH:	1,000
			Latent BTUH:	0
Vented clothes dryer	Quantity:	1	Sensible BTUH:	427
			Latent BTUH:	0
Clothes washing machine	Quantity:	1	Sensible BTUH:	51
			Latent BTUH:	0
Refrigerator or Freezer - 12CuFt	Quantity:	1	Sensible BTUH:	700
			Latent BTUH:	0

PLANTS

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

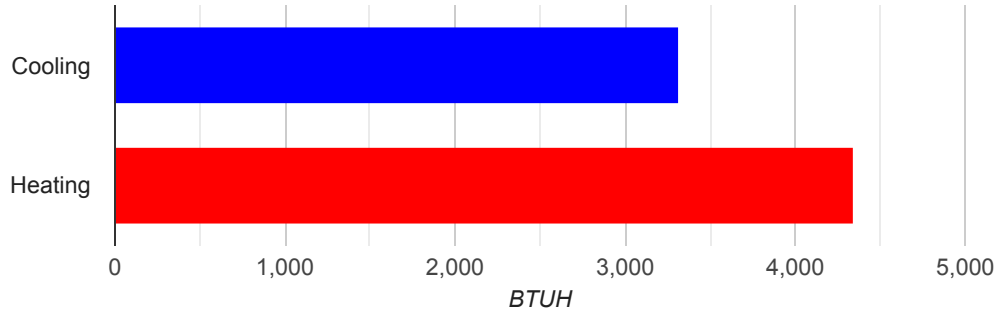
ROOM DETAIL

Room name: MUDROOM

Heated square footage: 152
Cooled square footage: 152
Heated volume (above grade CF): 1,368
Cooled volume (above grade CF): 1,368
Exposed wall area (SF): 243

Total Cooling BTUH: 3,310
Total Heating BTUH: 4,334
CFM: 148

Load Calculation



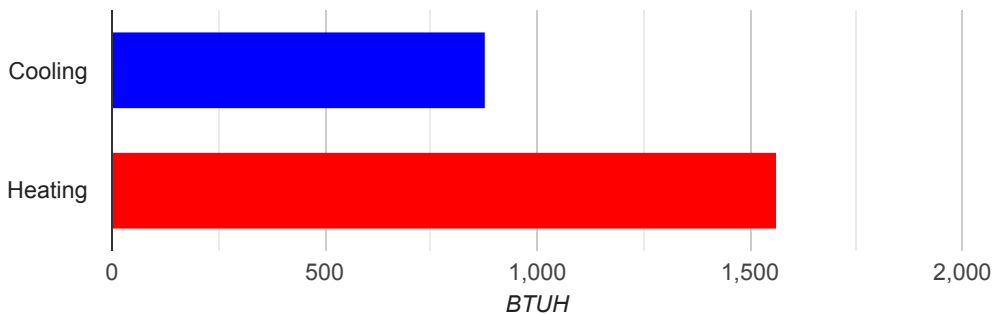
ROOM DETAIL

Room name: PANTRY

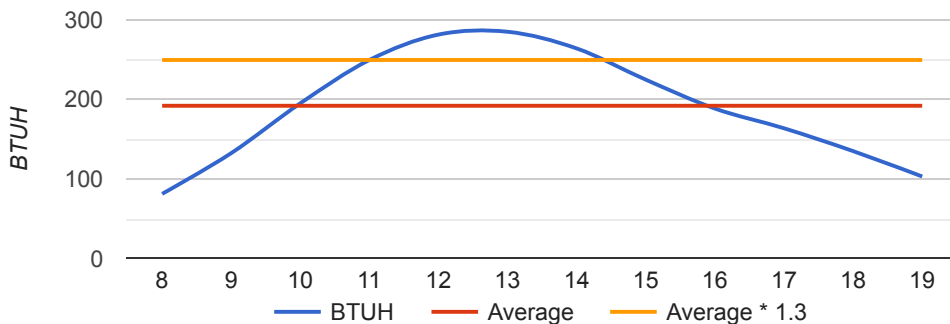
Heated square footage: 147
Cooled square footage: 147
Heated volume (above grade CF): 1,323
Cooled volume (above grade CF): 1,323
Exposed wall area (SF): 72

Total Cooling BTUH: 875
Total Heating BTUH: 1,562
CFM: 38

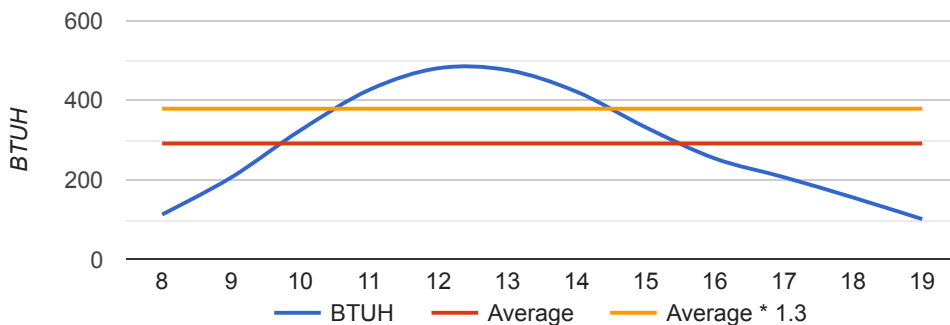
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

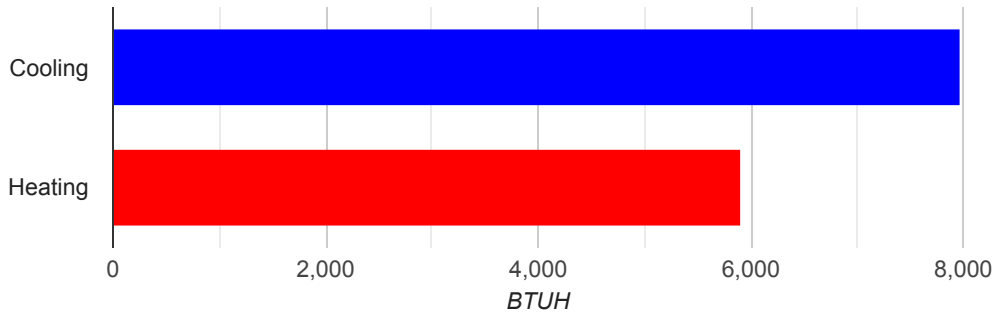


ROOM DETAIL

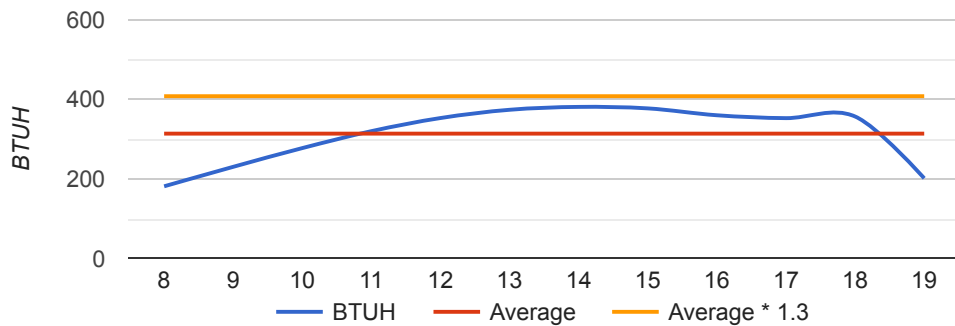
Room name: SCHOOL ROOM

Heated square footage:	323	Total Cooling BTUH:	7,961
Cooled square footage:	323	Total Heating BTUH:	5,893
Heated volume (above grade CF):	2,907	CFM:	256
Cooled volume (above grade CF):	2,907		
Exposed wall area (SF):	324		

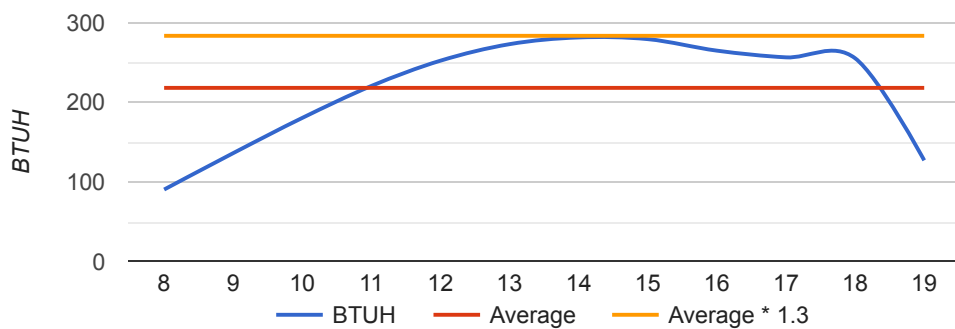
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

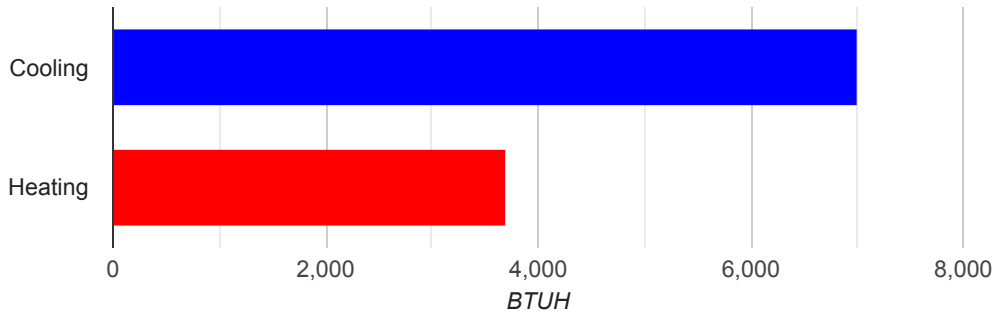


ROOM DETAIL

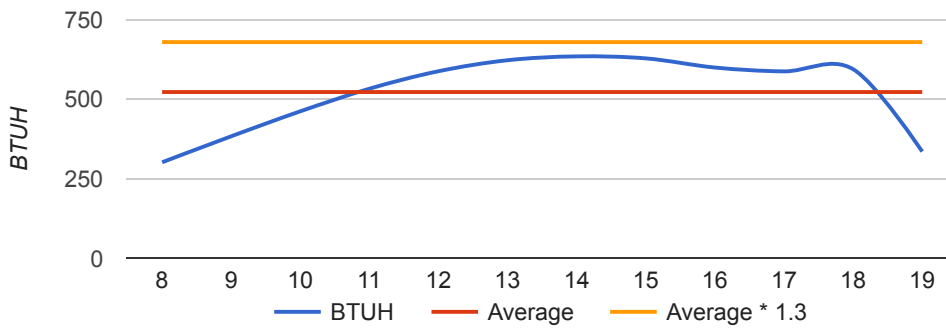
Room name: DINING ROOM

Heated square footage:	324	Total Cooling BTUH:	6,999
Cooled square footage:	324	Total Heating BTUH:	3,694
Heated volume (above grade CF):	2,916	CFM:	227
Cooled volume (above grade CF):	2,916		
Exposed wall area (SF):	162		

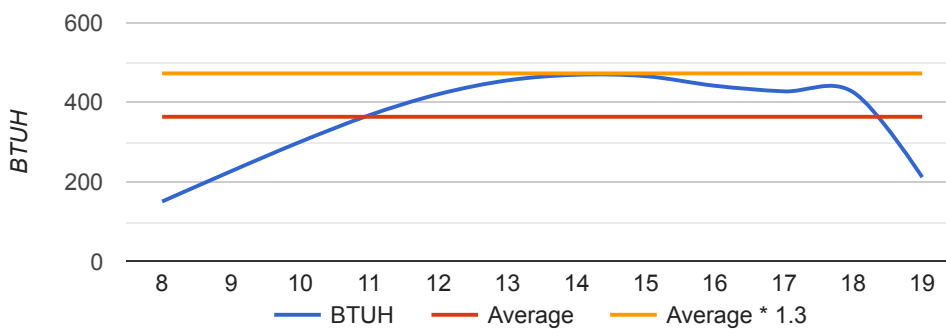
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

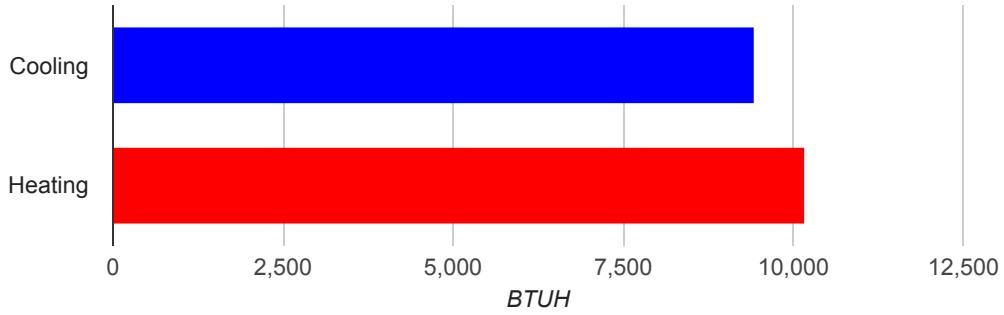


ROOM DETAIL

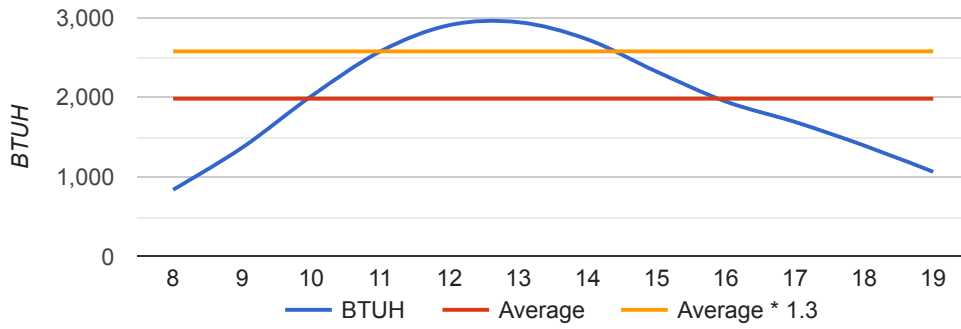
Room name: LIVING SPACE / KITCHEN

Heated square footage:	784	Total Cooling BTUH:	9,428
Cooled square footage:	784	Total Heating BTUH:	10,153
Heated volume (above grade CF):	14,112	CFM:	416
Cooled volume (above grade CF):	14,112		
Exposed wall area (SF):	504		

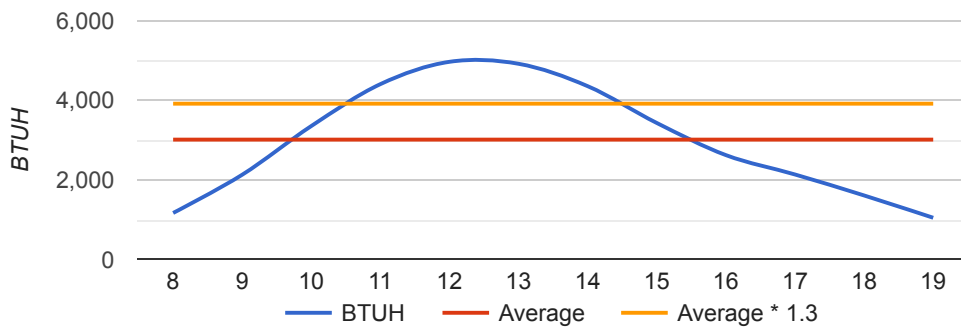
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

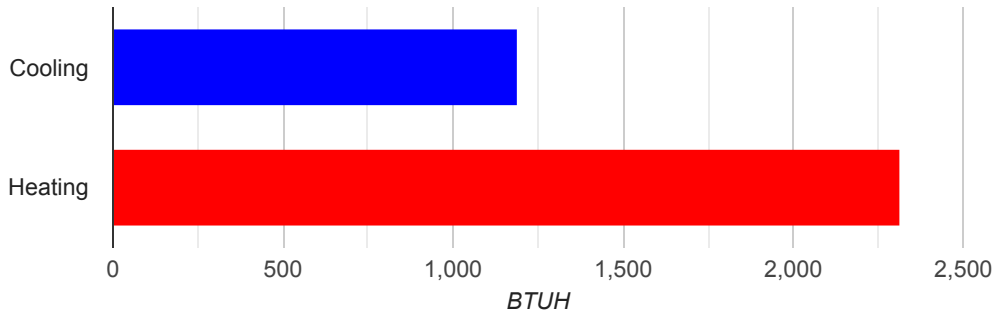


ROOM DETAIL

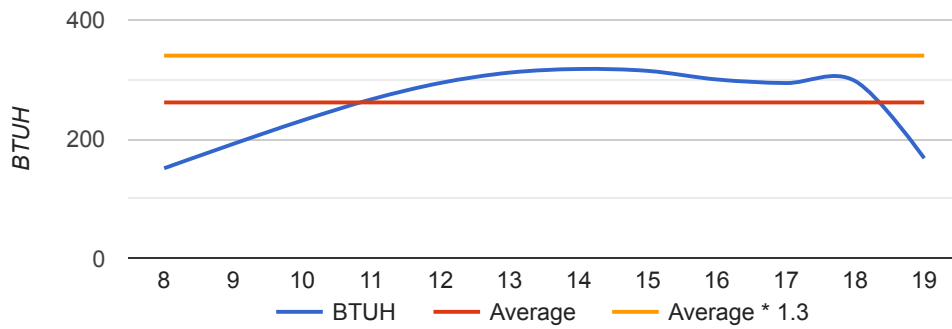
Room name: STAIRS

Heated square footage:	93	Total Cooling BTUH:	1,187
Cooled square footage:	93	Total Heating BTUH:	2,309
Heated volume (above grade CF):	1,674	CFM:	43
Cooled volume (above grade CF):	1,674		
Exposed wall area (SF):	144		

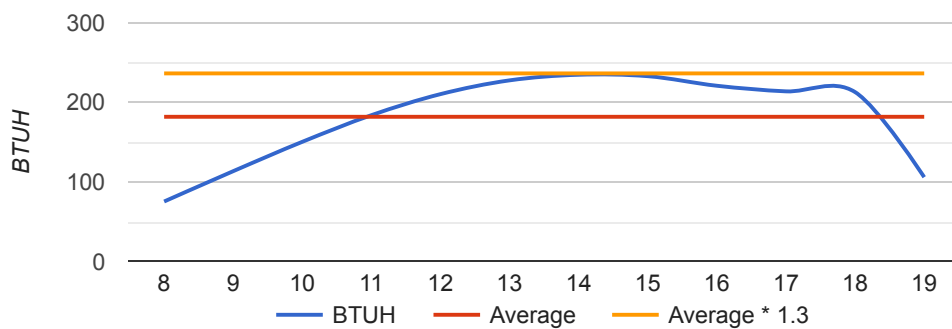
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

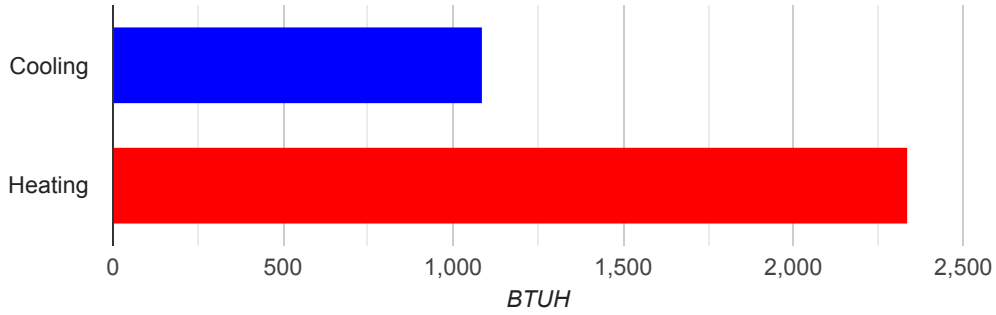


ROOM DETAIL

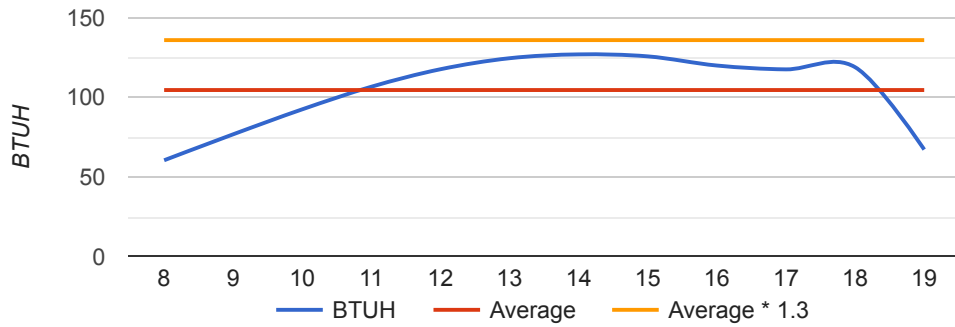
Room name: BEDROOM 02

Heated square footage:	168	Total Cooling BTUH:	1,084
Cooled square footage:	168	Total Heating BTUH:	2,337
Heated volume (above grade CF):	1,512	CFM:	40
Cooled volume (above grade CF):	1,512		
Exposed wall area (SF):	126		

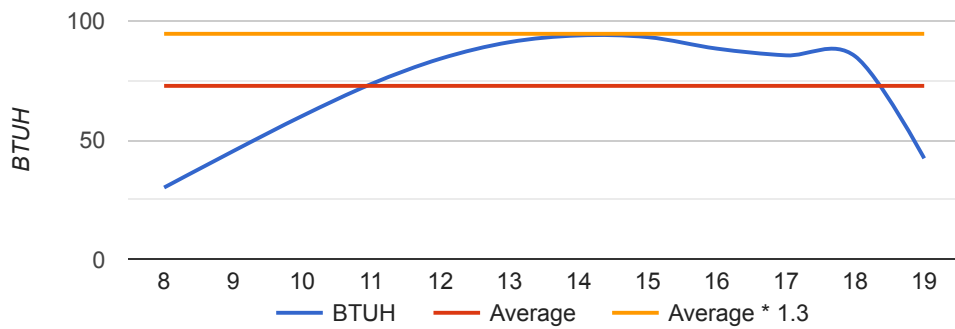
Load Calculation



AED Graph (mid-summer)



AED graph (fall)



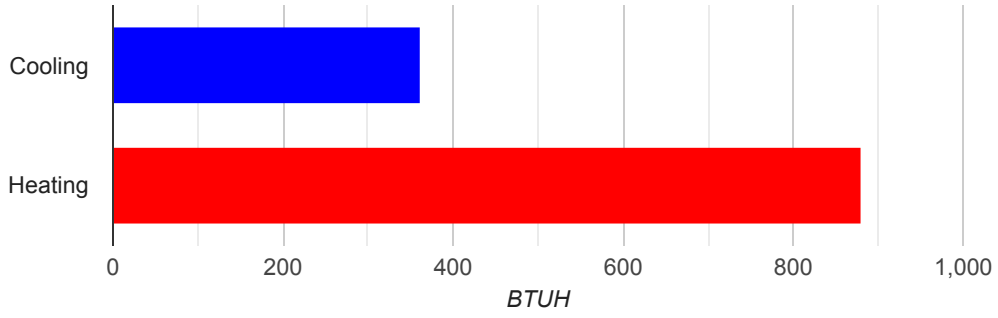
ROOM DETAIL

Room name: CLOSET 02

Heated square footage: 36
Cooled square footage: 36
Heated volume (above grade CF): 324
Cooled volume (above grade CF): 324
Exposed wall area (SF): 54

Total Cooling BTUH: 361
Total Heating BTUH: 879
CFM: 11

Load Calculation

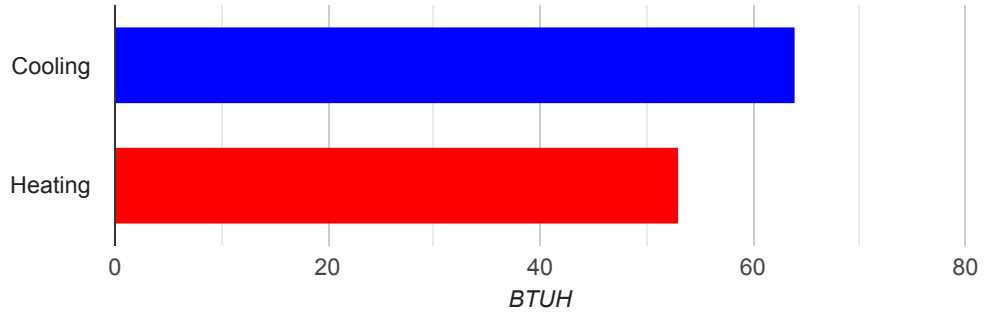


ROOM DETAIL

Room name: CLOSET 03

Heated square footage:	36	Total Cooling BTUH:	64
Cooled square footage:	36	Total Heating BTUH:	53
Heated volume (above grade CF):	324	CFM:	3
Cooled volume (above grade CF):	324		
Exposed wall area (SF):	0		

Load Calculation

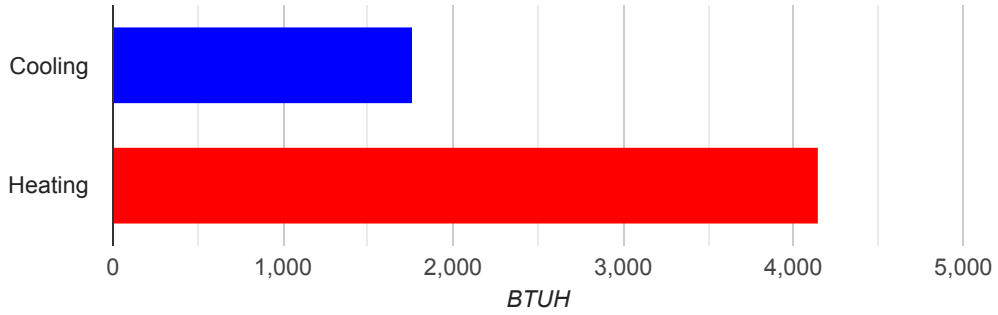


ROOM DETAIL

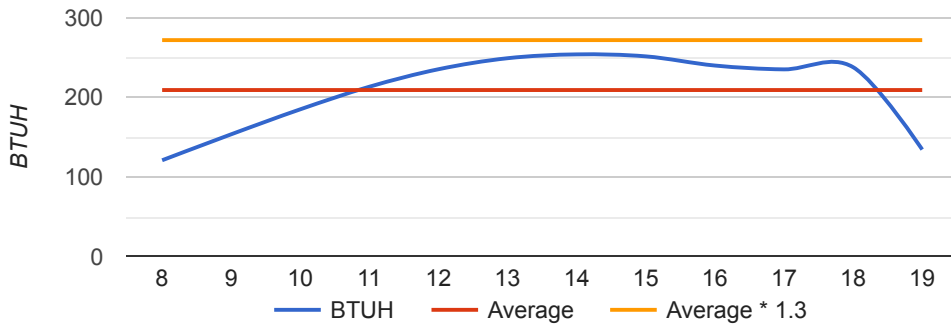
Room name: BEDROOM 03

Heated square footage:	160	Total Cooling BTUH:	1,755
Cooled square footage:	160	Total Heating BTUH:	4,140
Heated volume (above grade CF):	1,440	CFM:	57
Cooled volume (above grade CF):	1,440		
Exposed wall area (SF):	234		

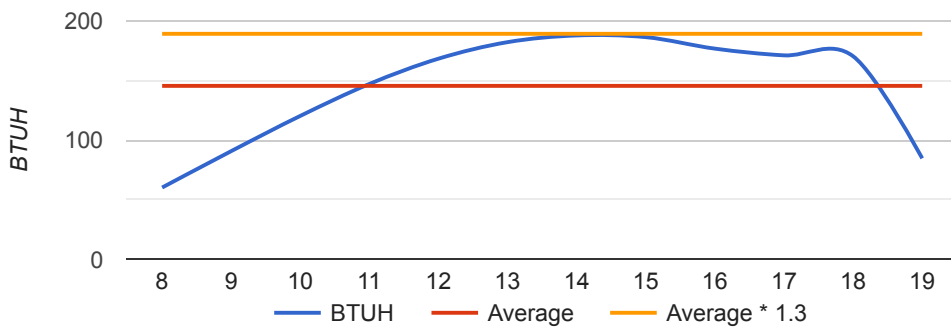
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

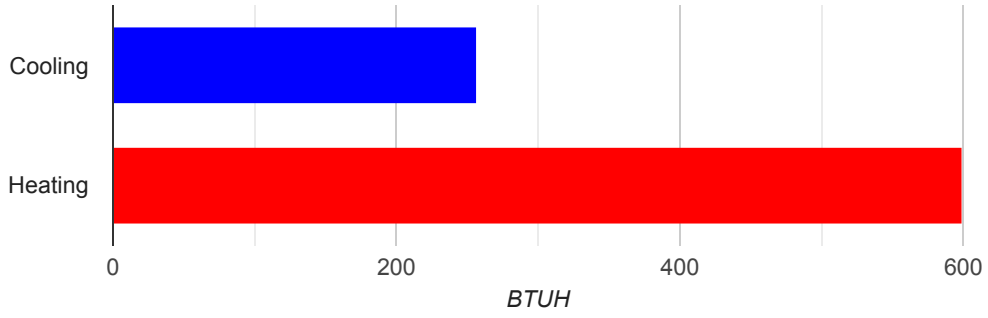


ROOM DETAIL

Room name: CLOSET 04

Heated square footage:	33	Total Cooling BTUH:	256
Cooled square footage:	33	Total Heating BTUH:	599
Heated volume (above grade CF):	297	CFM:	8
Cooled volume (above grade CF):	297		
Exposed wall area (SF):	36		

Load Calculation



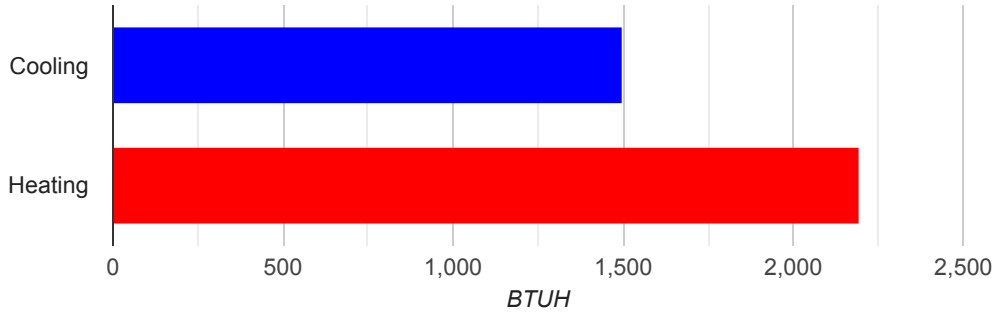
ROOM DETAIL

Room name: BEDROOM 04

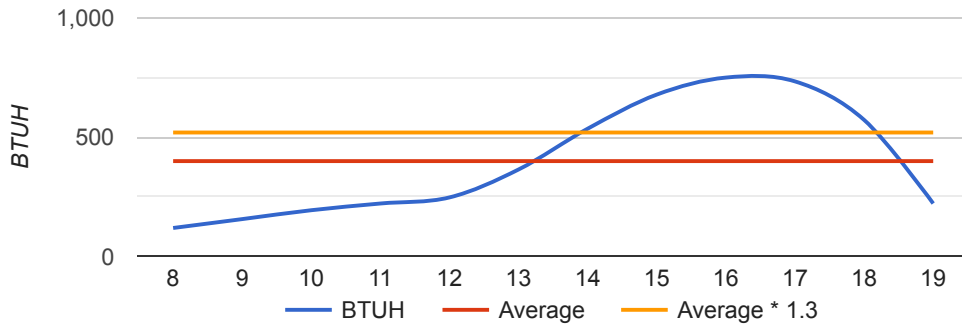
Heated square footage: 144
Cooled square footage: 144
Heated volume (above grade CF): 1,296
Cooled volume (above grade CF): 1,296
Exposed wall area (SF): 108

Total Cooling BTUH: 1,496
Total Heating BTUH: 2,190
CFM: 67

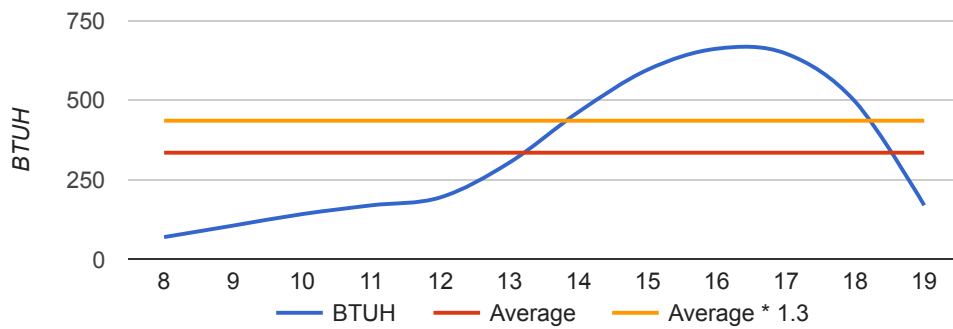
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

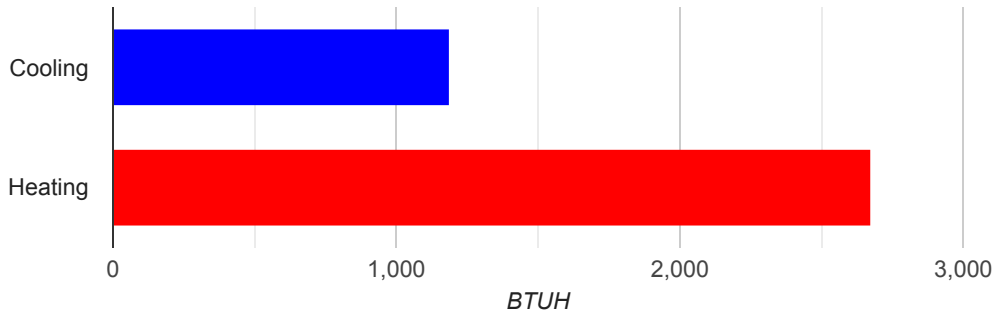


ROOM DETAIL

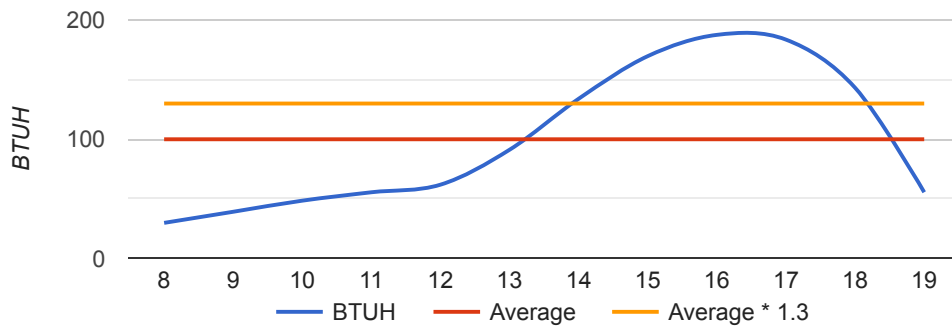
Room name: MASTER CLOSET

Heated square footage:	77	Total Cooling BTUH:	1,187
Cooled square footage:	77	Total Heating BTUH:	2,672
Heated volume (above grade CF):	693	CFM:	38
Cooled volume (above grade CF):	693		
Exposed wall area (SF):	162		

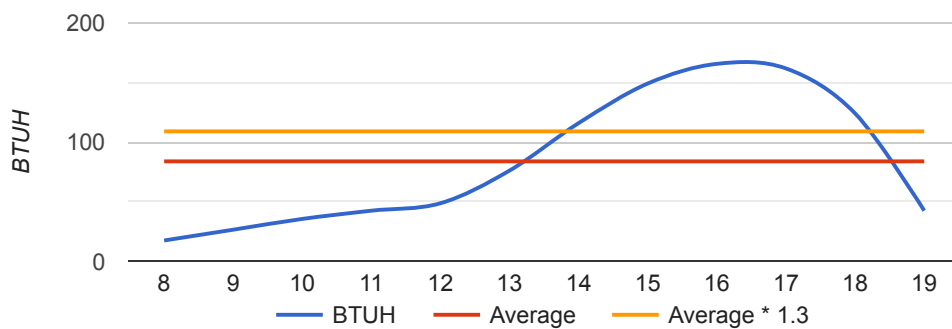
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

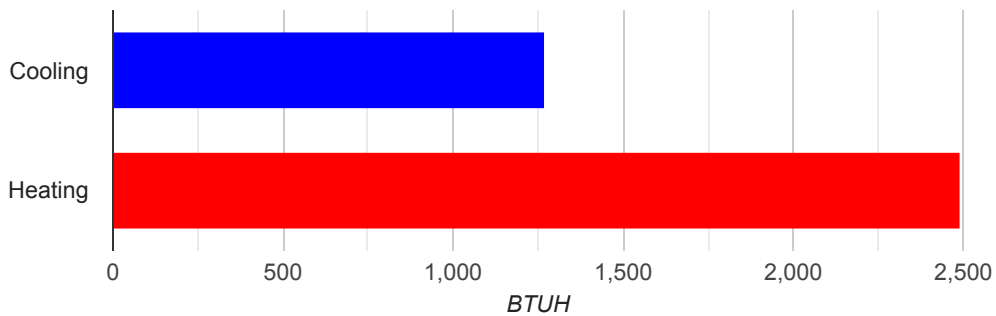


ROOM DETAIL

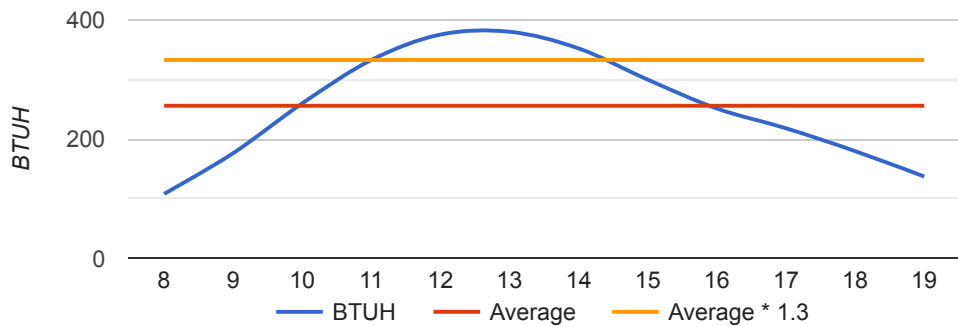
Room name: MASTER BATHROOM

Heated square footage:	160	Total Cooling BTUH:	1,266
Cooled square footage:	160	Total Heating BTUH:	2,488
Heated volume (above grade CF):	1,440	CFM:	48
Cooled volume (above grade CF):	1,440		
Exposed wall area (SF):	126		

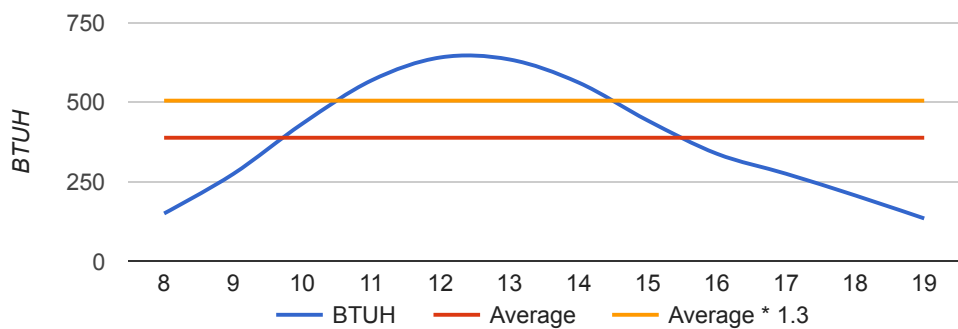
Load Calculation



AED Graph (mid-summer)



AED graph (fall)



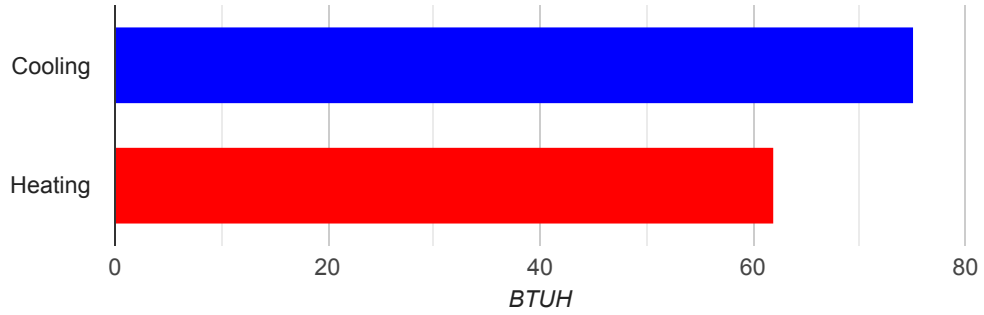
ROOM DETAIL

Room name: BATH 04

Heated square footage: 42
Cooled square footage: 42
Heated volume (above grade CF): 378
Cooled volume (above grade CF): 378
Exposed wall area (SF): 0

Total Cooling BTUH: 75
Total Heating BTUH: 62
CFM: 3

Load Calculation

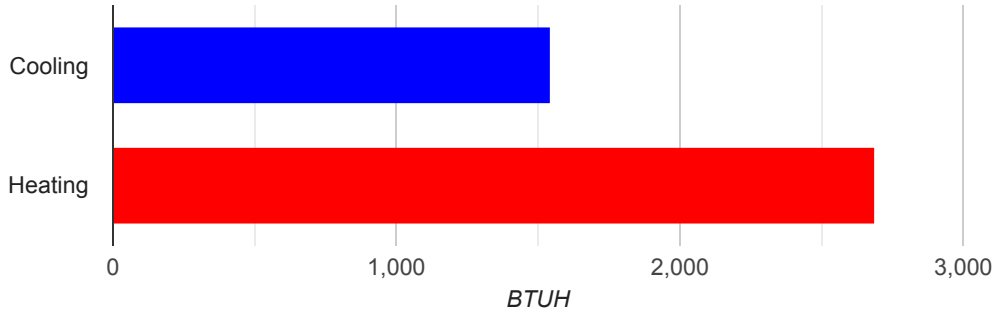


ROOM DETAIL

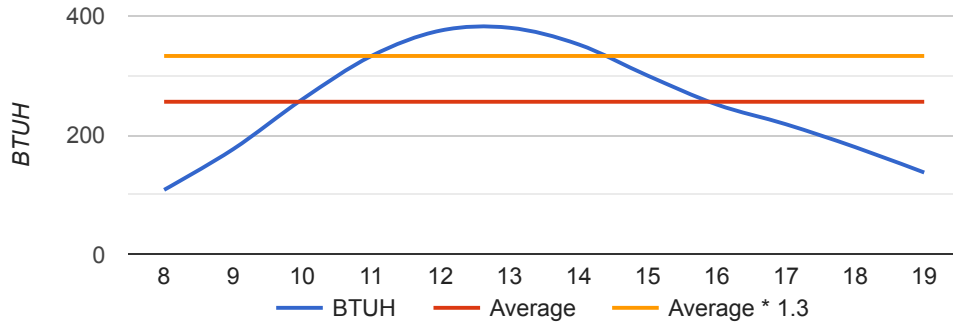
Room name: MASTER BEDROOM

Heated square footage:	208	Total Cooling BTUH:	1,541
Cooled square footage:	208	Total Heating BTUH:	2,685
Heated volume (above grade CF):	1,872	CFM:	69
Cooled volume (above grade CF):	1,872		
Exposed wall area (SF):	108		

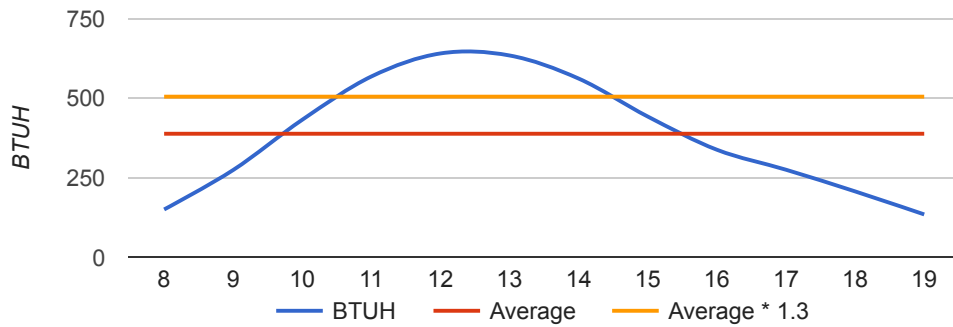
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

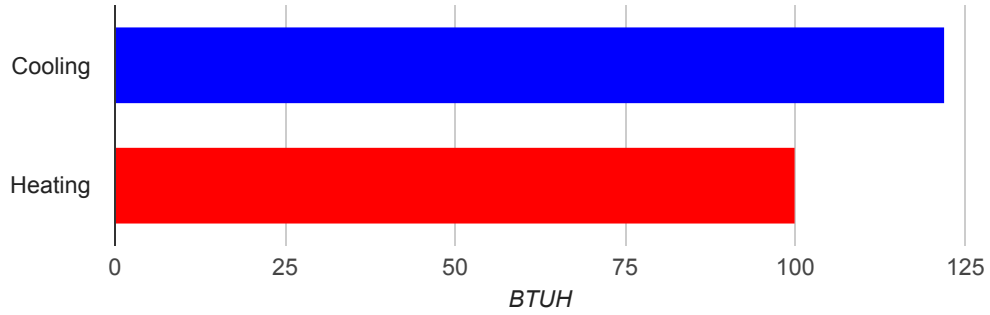


ROOM DETAIL

Room name: BATH 03

Heated square footage:	68	Total Cooling BTUH:	122
Cooled square footage:	68	Total Heating BTUH:	100
Heated volume (above grade CF):	612	CFM:	6
Cooled volume (above grade CF):	612		
Exposed wall area (SF):	0		

Load Calculation

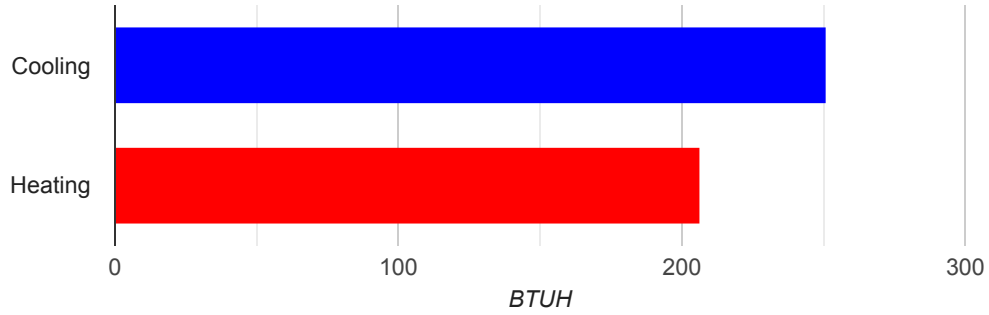


ROOM DETAIL

Room name: WALKWAY

Heated square footage:	140	Total Cooling BTUH:	251
Cooled square footage:	140	Total Heating BTUH:	206
Heated volume (above grade CF):	1,260	CFM:	12
Cooled volume (above grade CF):	1,260		
Exposed wall area (SF):	0		

Load Calculation



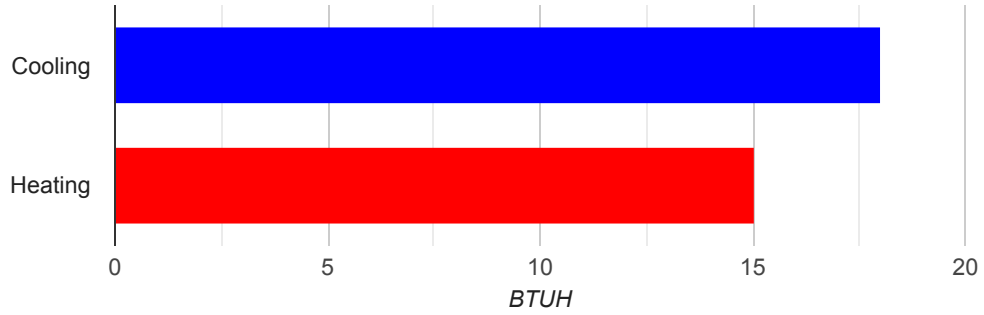
ROOM DETAIL

Room name: CLOSET

Heated square footage: 10
Cooled square footage: 10
Heated volume (above grade CF): 90
Cooled volume (above grade CF): 90
Exposed wall area (SF): 0

Total Cooling BTUH: 18
Total Heating BTUH: 15
CFM:

Load Calculation

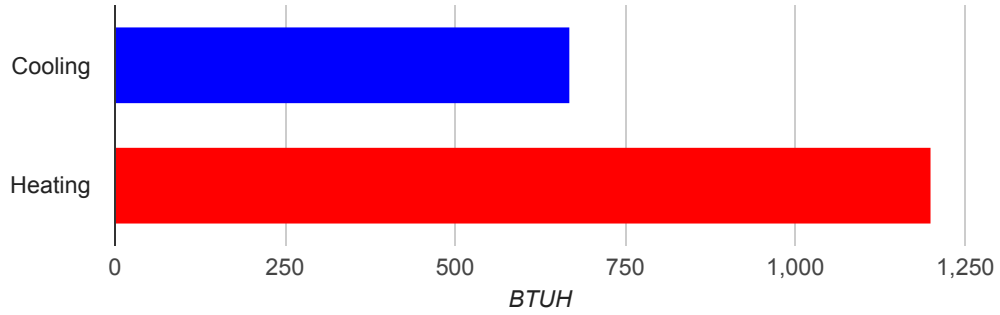


ROOM DETAIL

Room name: HALLWAY

Heated square footage:	75	Total Cooling BTUH:	668
Cooled square footage:	75	Total Heating BTUH:	1,200
Heated volume (above grade CF):	675	CFM:	30
Cooled volume (above grade CF):	675		
Exposed wall area (SF):	45		

Load Calculation

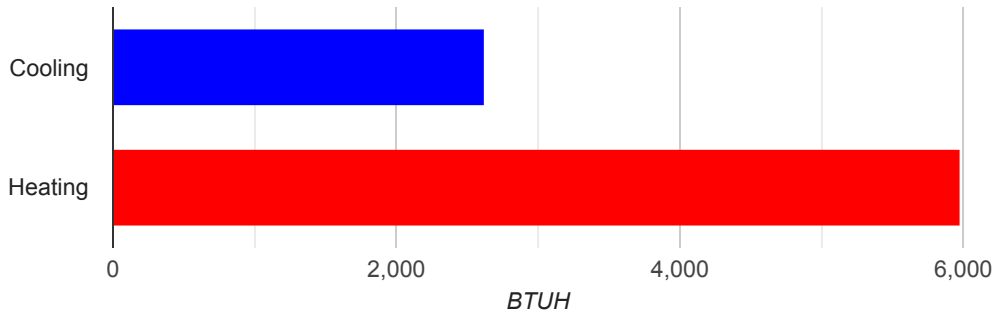


ROOM DETAIL

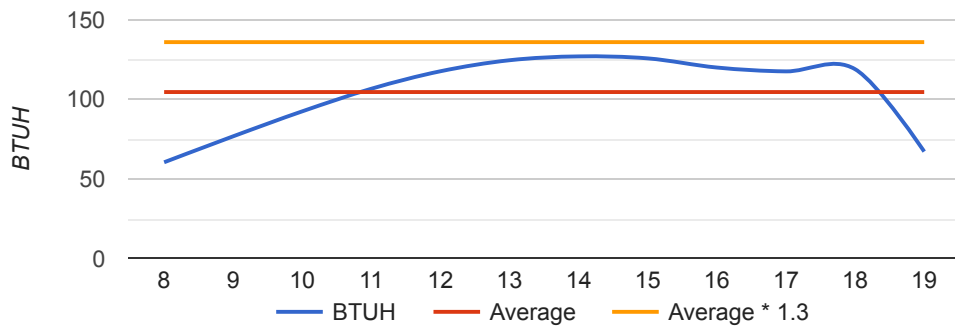
Room name: BEDROOM 05

Heated square footage:	225	Total Cooling BTUH:	2,622
Cooled square footage:	225	Total Heating BTUH:	5,978
Heated volume (above grade CF):	2,363	CFM:	120
Cooled volume (above grade CF):	2,363		
Exposed wall area (SF):	152		

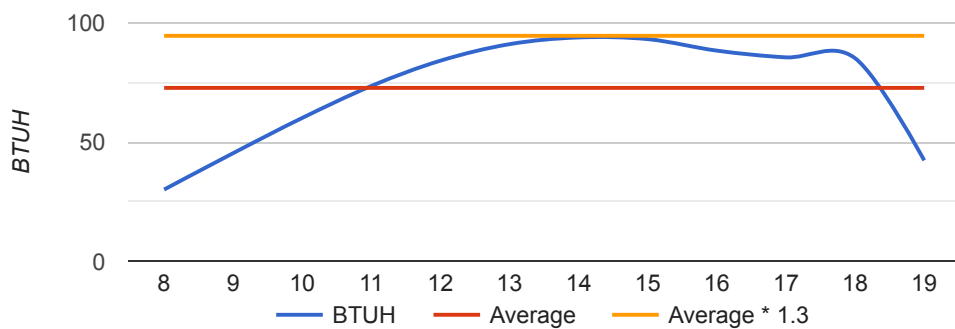
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

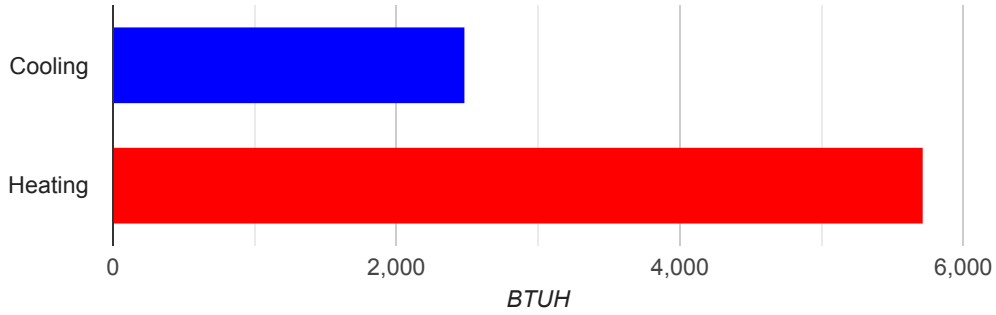


ROOM DETAIL

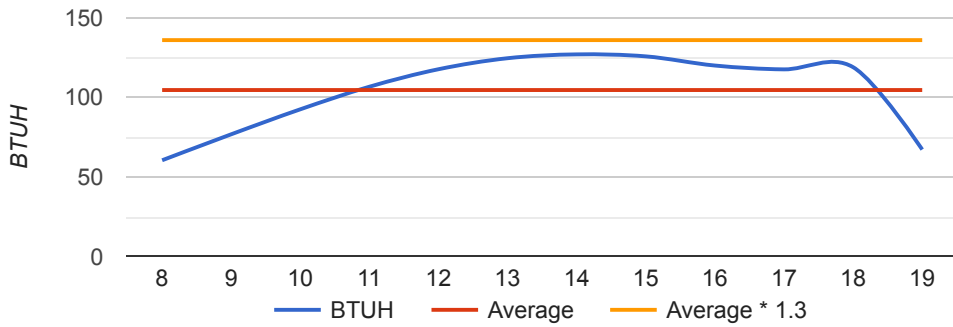
Room name: BEDROOM 06

Heated square footage:	217	Total Cooling BTUH:	2,474
Cooled square footage:	217	Total Heating BTUH:	5,711
Heated volume (above grade CF):	2,279	CFM:	113
Cooled volume (above grade CF):	2,279		
Exposed wall area (SF):	144		

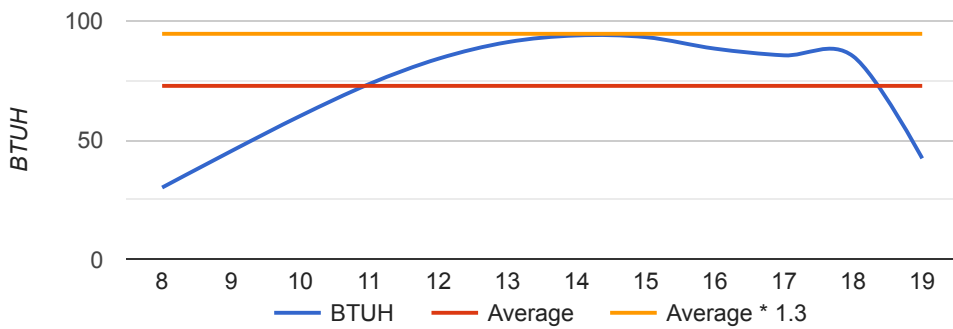
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

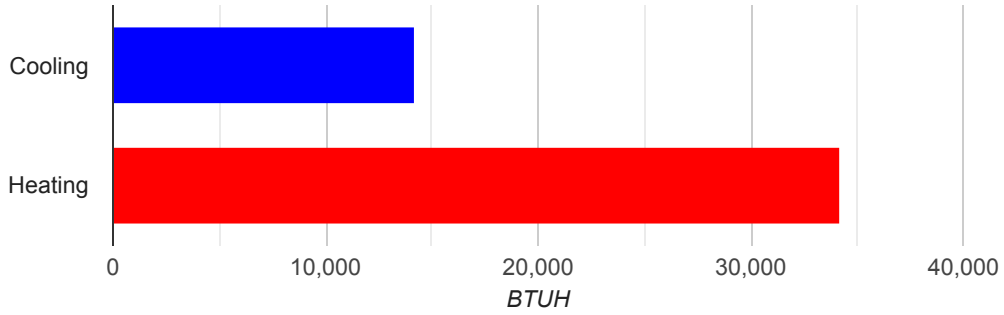


ROOM DETAIL

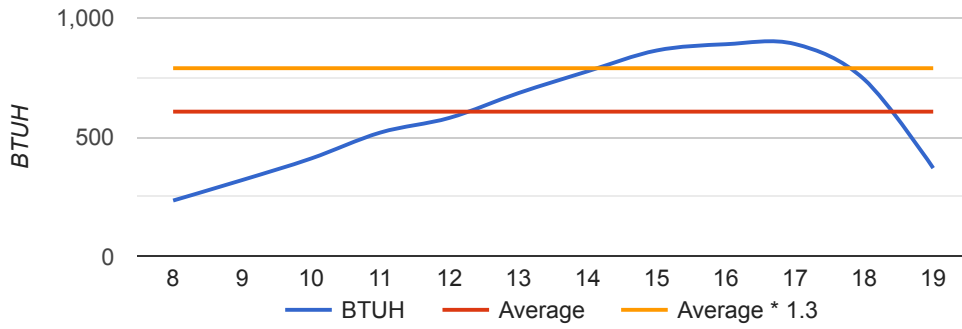
Room name: WEST ATTIC FUTURE SPACE

Heated square footage:	1,360	Total Cooling BTUH:	14,197
Cooled square footage:	1,360	Total Heating BTUH:	34,164
Heated volume (above grade CF):	14,280	CFM:	649
Cooled volume (above grade CF):	14,280		
Exposed wall area (SF):	864		

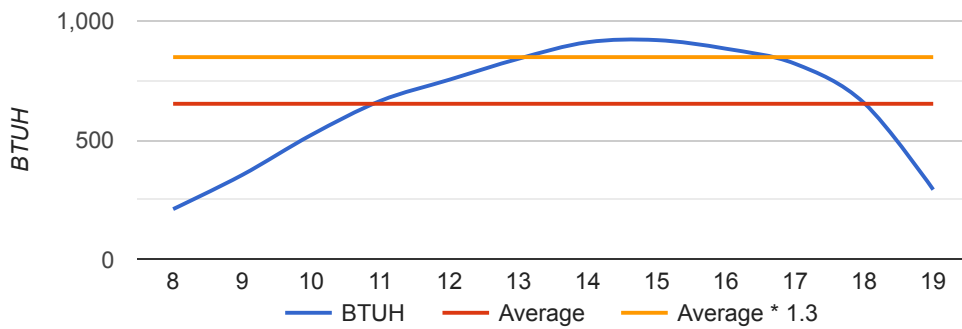
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

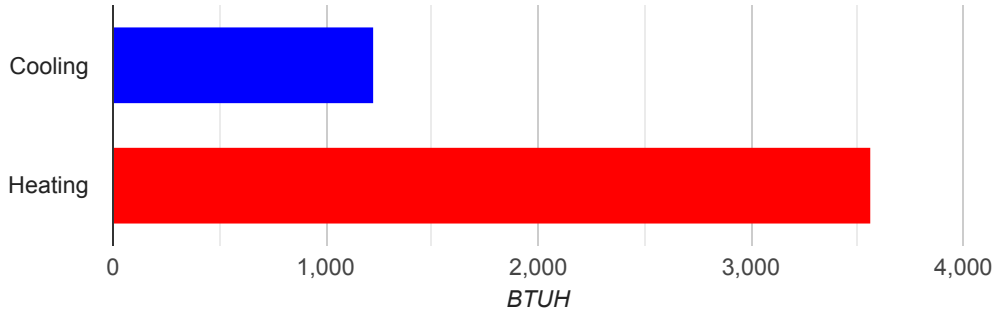


ROOM DETAIL

Room name: HALLWAY

Heated square footage:	190	Total Cooling BTUH:	1,226
Cooled square footage:	190	Total Heating BTUH:	3,558
Heated volume (above grade CF):	1,995	CFM:	61
Cooled volume (above grade CF):	1,995		
Exposed wall area (SF):	0		

Load Calculation



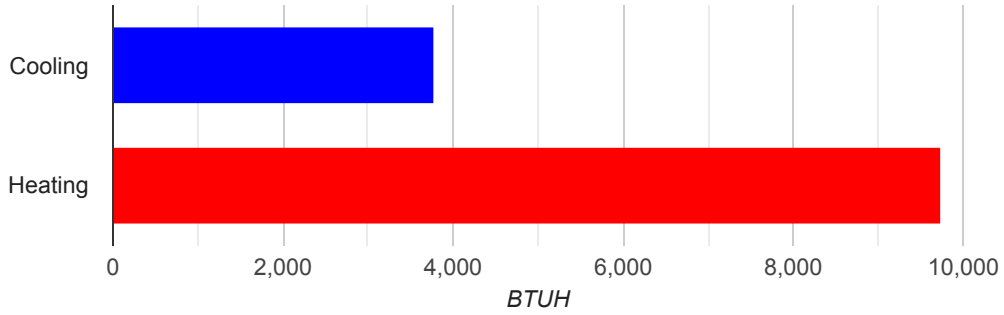
ROOM DETAIL

Room name: LOFT

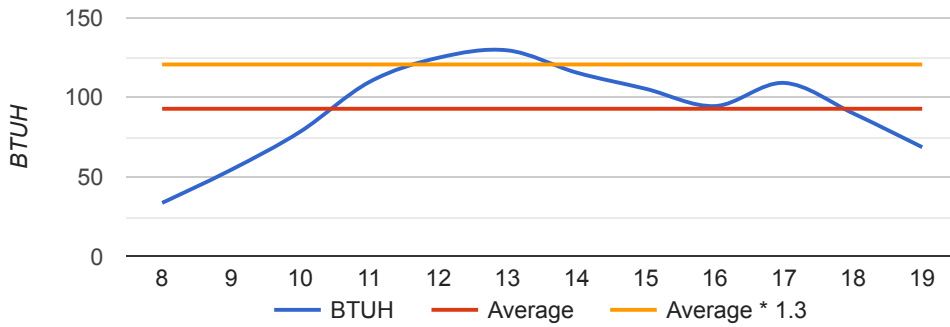
Heated square footage: 417
Cooled square footage: 417
Heated volume (above grade CF): 4,379
Cooled volume (above grade CF): 4,379
Exposed wall area (SF): 200

Total Cooling BTUH: 3,772
Total Heating BTUH: 9,728
CFM: 174

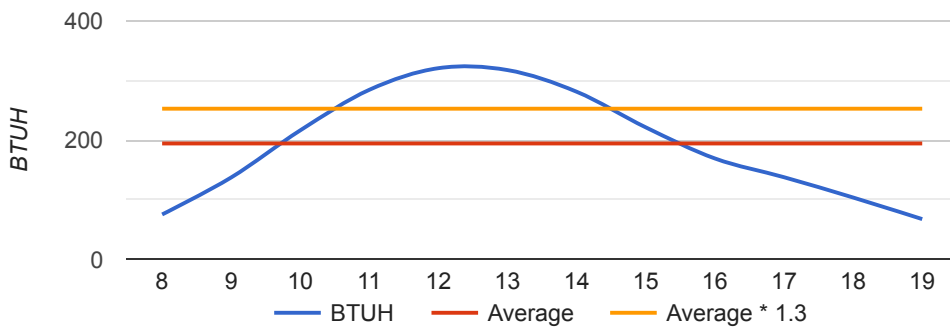
Load Calculation



AED Graph (mid-summer)



AED graph (fall)

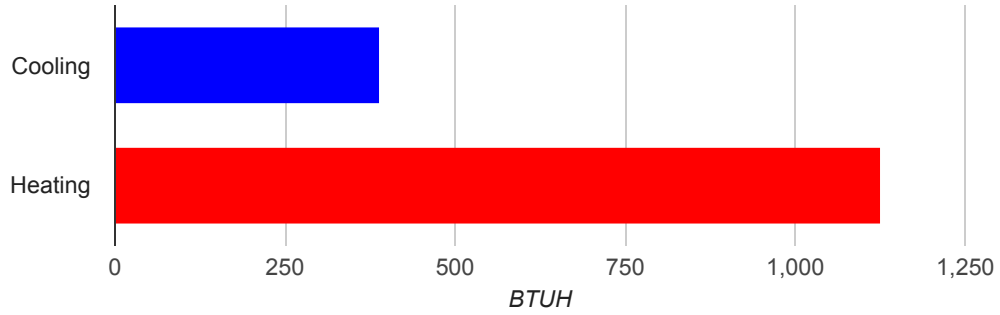


ROOM DETAIL

Room name: UPSTAIRS BATHROOM

Heated square footage:	60	Total Cooling BTUH:	387
Cooled square footage:	60	Total Heating BTUH:	1,124
Heated volume (above grade CF):	630	CFM:	19
Cooled volume (above grade CF):	630		
Exposed wall area (SF):	0		

Load Calculation

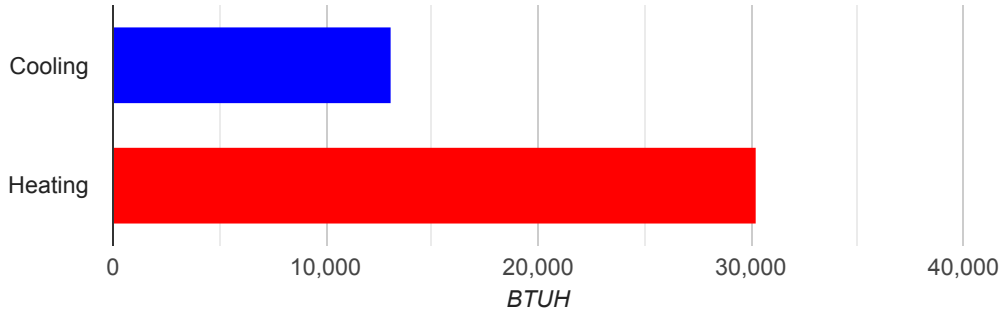


ROOM DETAIL

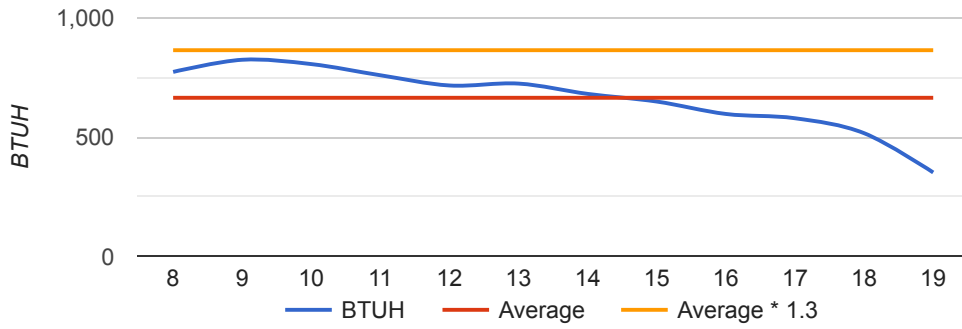
Room name: EAST ATTIC FUTURE SPACE

Heated square footage:	1,088	Total Cooling BTUH:	13,054
Cooled square footage:	1,088	Total Heating BTUH:	30,273
Heated volume (above grade CF):	11,424	CFM:	581
Cooled volume (above grade CF):	11,424		
Exposed wall area (SF):	987		

Load Calculation



AED Graph (mid-summer)



AED graph (fall)

