Project Name : 4430 9th St - 3

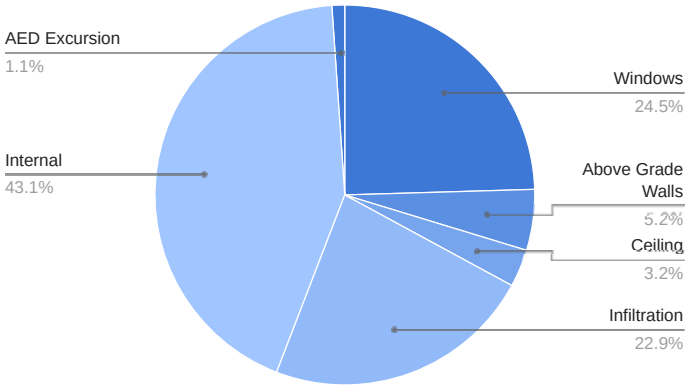
System : 2

4430 9th St NW, Washington, DC, United States

Cool Calc BETA Manual J

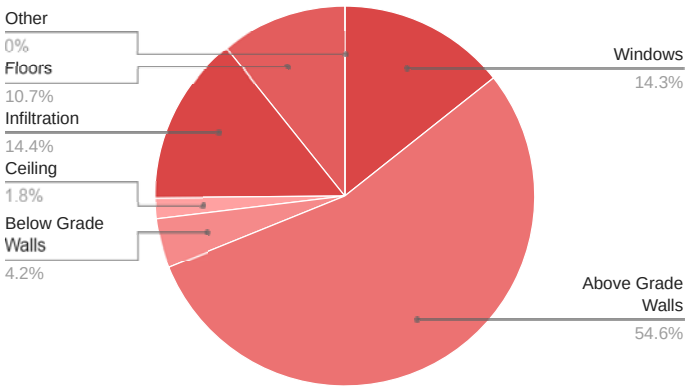
RONALD REAGAN AP, DISTRICT OF COLUMBIA

Summer Outdoor F:	92	Summer Indoor F:	75	Design Grains:	41	Daily Range:	MEDIUM
Winter Outdoor F:	20	Winter Indoor F:	70	Cooling RH:	50%	Elevation (Ft):	66



Cooling Loads

Name	Area	Sensible	Latent
Windows & Glass Doors	438	2,153	0
Skylights	0	0	0
Doors	0	0	0
Above Grade Walls	2,684	455	0
Floors	112	0	0
Ceiling	848	281	0
Ventilation	0	0	0
Infiltration	0	808	1,204
Internal	0	2,580	1,200
Duct	0	0	0
Blower Heat	0	0	0
AED Excursion	0	96	0
Total	4,082	6,373	2,404

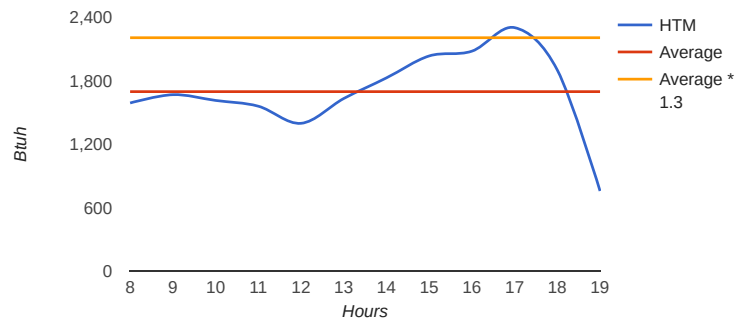


Heating Loads

Name	Area	Heat Loss
Windows & Glass Doors	438	8,827
Skylights	0	0
Doors	0	8
Above Grade Walls	2,684	33,647
Below Grade Walls	304	2,584
Ceiling	848	1,102
Ventilation	0	0
Infiltration	0	8,881
Internal	0	0
Floors	112	6,608
Duct	0	0
Humidification	0	0
Hot Water Piping	0	0
Total	4,386	61,657

Warning: This application has glass areas that produced relatively large cooling loads for part of the day. Variable air volume devices 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)

AED Graph



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. See Cool Calc Manual S Report for equipment sizing verification.

Prepared by: Cool Calc Version 1.0.0 Beta – www.coolcalc.com