

Building Analysis

Heat Pump

Arizona Comfort Systems

Project Information

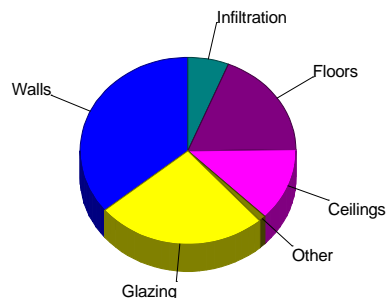
For: David Butler

Design Conditions

Location:		Indoor:		Heating	Cooling
Fort Huachuca AP (S), AZ, US		Indoor temperature (°F)		69	77
Elevation: 4662 ft		Design TD (°F)		52	23
Latitude: 32°N		Relative humidity (%)		30	40
		Moisture difference (gr/lb)		25.1	-27.4
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	17	100	Method	Blower door	
Daily range (°F)	-	27 (H)	Shielding / stories	3 (partial) / 2	
Wet bulb (°F)	-	62	Pressure / AVF	51 Pa / 295 cfm	
Wind speed (mph)	15.0	7.5			

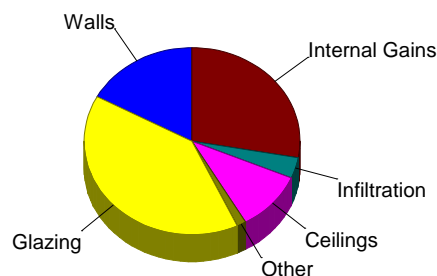
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.6	7760	36.0
Glazing	14.1	5520	25.6
Doors	7.8	218	1.0
Ceilings	1.6	2720	12.6
Floors	2.3	4040	18.7
Infiltration	0.6	1312	6.1
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		21571	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.5	1607	17.1
Glazing	9.6	3747	39.8
Doors	4.7	130	1.4
Ceilings	0.6	968	10.3
Floors	0	0	0
Infiltration	0.2	339	3.6
Ducts		0	0
Ventilation		0	0
Internal gains		2620	27.8
Blower		0	0
Adjustments		0	0
Total		9412	100.0



Latent Cooling Load = 550 Btuh
Overall U-value = 0.057 Btuh/ft²-°F

Data entries checked.

Bold/italic values have been manually overridden