

Residential System Sizing Calculation

Summary

Project Title:
CRB Investment

Ft, White, FL 32024

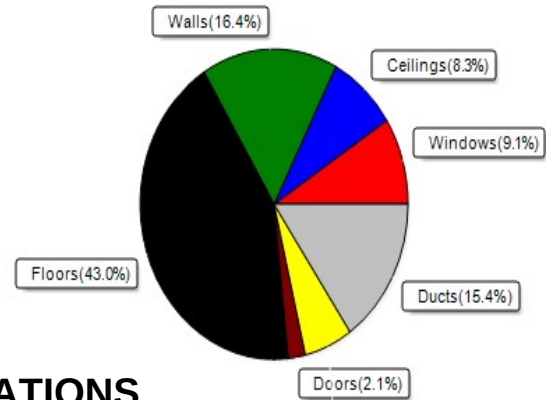
8/1/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	15376	Btuh	Total cooling load calculation	12429	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	195.1	30000	Sensible (SHR = 0.85)	252.3	25500
Heat Pump + Auxiliary(0.0kW)	195.1	30000	Latent	193.7	4500
			Total (Electric Heat Pump)	241.4	30000

WINTER CALCULATIONS

Winter Heating Load (for 1003 sqft)

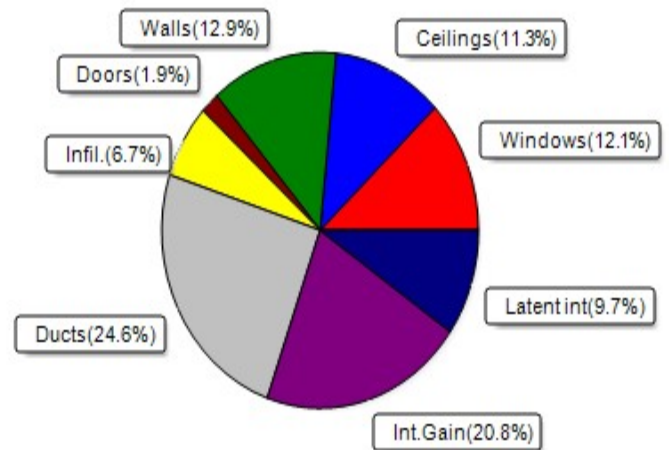
Load component			Load	
Window total	106	sqft	1399	Btuh
Wall total	731	sqft	2522	Btuh
Door total	20	sqft	320	Btuh
Ceiling total	1014	sqft	1278	Btuh
Floor total	1014	sqft	6608	Btuh
Infiltration	20	cfm	878	Btuh
Duct loss			2371	Btuh
Subtotal			15376	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			15376	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1003 sqft)

Load component			Load	
Window total	106	sqft	1503	Btuh
Wall total	731	sqft	1608	Btuh
Door total	20	sqft	240	Btuh
Ceiling total	1014	sqft	1405	Btuh
Floor total			0	Btuh
Infiltration	15	cfm	313	Btuh
Internal gain			2580	Btuh
Duct gain			2457	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			10106	Btuh
Latent gain(ducts)			604	Btuh
Latent gain(infiltration)			519	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			2323	Btuh
TOTAL HEAT GAIN			12429	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

7-7-20