

Project Information

For: PLUMBLEVEL/47 PROPERTIES
Columbia County, FLJ-1

		Htg	Clg			Htg	Clg
Outside db	(°F)	33	92	Inside db	(°F)	70	75
Outside RH	(%)	-	47	Inside RH	(%)	-	50
Outside wb	(°F)	-	76	Inside wb	(°F)	-	63
Daily range	(°F)	-	18	Design TD	(°F)	37	17
Moisture diff.	(gr/lb)	-	43				

Heating Equipment

Make Trane
Model 4TWR4060N1

AHRI ref. 209842243
Type Split ASHP
Efficiency 7.5 HSPF2
Heating Input
Heating Output 55.0 MBtuh @ 47°F
Humidifier 14.7 gpd
Leaving Air Temp 97.4 °F
Actual Heating Fan 1833 cfm
Backup:
Input = 11 kW, Output = 38769 Btuh, 100 AFUE

Cooling Equipment

Make Trane
Cond 4TWR4060N1
Coil TEM4B0C60S51++TDR
AHRI ref. 209842243
Type Split ASHP
Efficiency 11.7 EER2,14.3 SEER2
Sensible Cooling 44.0 MBtuh
Latent Cooling 11.0 MBtuh
Total Cooling 55.0 MBtuh
Leaving Air Temp 55.0 °F
Actual Cooling Fan 1833 cfm

System Type PEAKCV
Fan Motor Heat Type PACKAGE
Fan & Motor Combined Efficiency 0 %
Static Pressure Across Fan 0 in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
Coms	84	2187	1644	356	122	69	Jul 1700 LDT
Meeting Area	171	3904	4349	722	207	187	Jul 1700 LDT
Break Room	116	1902	2027	489	83	84	Jul 1700 LDT
W RR	79	1297	1382	334	57	57	Jul 1700 LDT
Outside Sales	210	3335	4775	890	142	203	Jul 1700 LDT
M RR	105	1729	1843	445	76	76	Jul 1700 LDT
Inside Sales	405	6246	8160	1716	260	342	Jul 1700 LDT
Bom	126	2075	2211	534	91	91	Jul 1700 LDT
Hub	84	1383	1474	356	61	61	Jul 1700 LDT
Trade Counter	599	11205	13012	2539	535	551	Jul 1700 LDT
Unisex RR	68	2431	1548	288	149	66	Jul 1700 LDT
Entry	62	1076	1128	263	49	47	Jul 1700 LDT

Building	2108	38769	43552	8932	1833	1833	Jul 1700 LDT
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Zone: Building

COOLING LOAD

1. DESIGN CONDITIONS		at Jul 1700 LDT	Peak load at Jul 1700 LDT		
Inside:	75 °F	Outside:	92 °F	TD:	17 °F
OutRH:	47 %	MoistDiff:	43.5 gr/lb	Mult:	1.0
				Ins.wb	63 °F
				Sensible	Latent
2. SOLAR RADIATION THROUGH GLASS				3368	-
3. TRANSMISSION GAINS		Sensible		9183	-
Walls:		3857		-	-
Glass:		519		-	-
Doors:		321		-	-
Partitions:		0		-	-
Floors:		0		-	-
Ceilings:		4485		-	-
4. INTERNAL HEAT GAIN		Sensible		26583	2108
Occupants:		4743		2108	-
Lights:		15125		-	-
Motors:		0		-	-
Appliances:		6715		0	-
5. INFILTRATION:		Outside air cfm:		0	0
6. SUBTOTAL:	Space load	Sensible		39134	2108
Envelope		39134		2108	-
Less external		0		-	-
Redistribution		0		0	-
7. SUPPLY DUCT				0	-
8. SUBTOTAL:	Space load + supply duct			39134	-
Actual cfm:		1833	at supply TD:	20	-
9. VENTILATION:		Make-up air cfm:		232	4418
10. RETURN AIR LOAD:		Lighting + plenum (net)		0	6824
11. RETURN DUCT				0	-
12. TOTAL LOADS ON EQUIPMENT				43552	8932

HEATING LOAD

13. DESIGN CONDITIONS			Mult:	1.0	
Inside:	70 °F	Outside:	33 °F	TD:	37 °F
14. TRANSMISSION LOSSES					20135
Walls:		7828		-	-
Glass:		1233		-	-
Doors:		764		-	-
Partitions:		0		-	-
Floors:		8239		-	-
Ceilings:		2072		-	-
15. INFILTRATION:		Outside air cfm:		95	3813
16. SUBTOTAL:	Space load				23948
Envelope		23948		-	-
Less external		0		-	-
Less transfer		0		-	-
Redistribution		0		-	-
17. SUPPLY DUCT:					0
18. VENTILATION:		Make-up air cfm:		232	9319
19. HUMIDIFICATION					5502
Piping					0
20. RETURN DUCT					0
21. TOTAL HEATING LOAD ON EQUIPMENT					38769