

Project Information

For: Cross Church
Lake city, FL

		Htg	Clg
Outside db	(°F)	33	90
Outside RH	(%)	-	49
Outside wb	(°F)	-	75
Daily range	(°F)	-	23
Moisture diff.	(gr/lb)	-	40

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	15

Heating Equipment

Make	Rheem	
Model	RP1460AJ1NA	
Type	Split ASHP	
Efficiency	9 HSPF	
Heating Input		
Heating Output	60.0	MBtuh @ 47°F
Humidifier	21.7	gpd
Leaving Air Temp	99.1	°F
Actual Heating Fan	1883	cfm

Cooling Equipment

Make	Rheem	
Model	RP1460AJ1NA	
Type	Split ASHP	
COP / EER / SEER	14.0	
Sensible Cooling	46.8	MBtuh
Latent Cooling	13.2	MBtuh
Total Cooling	60.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1883	cfm

Equipment Location	Manual N
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
Church	2000	44112	46303	12612	1883	1883	Jun 1900 LDT
Manual N	2000	44112	46303	12612	1883	1883	Jun 1900 LDT

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Lake city, FL

Zone: Manual N

COOLING LOAD

1. DESIGN CONDITIONS		at Jun 1900 LDT	Peak load at Jun 1900 LDT		
Inside:	75 °F	Outside:	90 °F	TD:	15 °F
RH:	49 %	MoistDiff:	40.2 gr/lb	Mult:	1.0
				Ins.wb	63 °F
				Sensible	Latent
2. SOLAR RADIATION THROUGH GLASS				0	-
3. TRANSMISSION GAINS		Sensible		10144	-
Walls:		5510		-	-
Glass:		0		-	-
Doors:		342		-	-
Partitions:		0		-	-
Floors:		0		-	-
Ceilings:		4291		-	-
4. INTERNAL HEAT GAIN		Sensible		29566	2000
Occupants:		4835	Latent	2000	-
Lights:		23611	-	-	-
Motors:		0	-	-	-
Appliances:		1120	0	-	-
5. INFILTRATION:	Outside air cfm:		0	0	0
6. SUBTOTAL:	Space load	Sensible	Latent	39710	2000
Envelope		39710	2000	-	-
Less external		0	-	-	-
Redistribution		0	0	-	-
7. SUPPLY DUCT				0	-
8. SUBTOTAL:	Space load + supply duct			39710	-
Actual cfm:	1883	at supply TD:	20	-	-
9. VENTILATION:	Make-up air cfm:		390	6593	10612
10. RETURN AIR LOAD:	Lighting + plenum (net)			0	-
11. RETURN DUCT				0	-
12. TOTAL LOADS ON EQUIPMENT				46303	12612

HEATING LOAD

13. DESIGN CONDITIONS			Mult:	1.0	
Inside:	70 °F	Outside:	33 °F	TD:	37 °F
14. TRANSMISSION LOSSES				16653	
Walls:		7076		-	
Glass:		0		-	
Doors:		510		-	
Partitions:		0		-	
Floors:		6551		-	
Ceilings:		2516		-	
15. INFILTRATION:	Outside air cfm:		90	3627	
16. SUBTOTAL:	Space load			20280	
Envelope		20280		-	
Less external		0		-	
Less transfer		0		-	
Redistribution		0		-	
17. SUPPLY DUCT:				0	
18. VENTILATION:	Make-up air cfm:		390	15717	
19. HUMIDIFICATION				8115	
Piping				0	
20. RETURN DUCT				0	
21. TOTAL HEATING LOAD ON EQUIPMENT				44112	