

System Component Selection Summary

By Spectrum Engineers

Alternative 1

System Description: RTU

System Type: Single Zone

Number of Zones: 1

Number of Rooms: 1

Component	Sizing Method	Location	Quantity
Cooling			
Main Clg Coil	Peak	Zone	1
Primary Clg Fan	Peak	Zone	1
Heating			
Main Htg Coil	Peak	Zone	1
Miscellaneous			
System Exhaust Fan	Vent+Inf-RmExh	System	1
Return Fan	Return Airflow	System	1

Coil Location			Cooling Coil Selection											
System	Zone	Room	Component	Time	Total Capacity		Sensible	Airflow At	Enter DB/ WB/ HR			Leave DB/ WB/ HR		
				Of Peak	ton	MBh	Capacity	Coil Peak	°F	°F	gr/lb	°F	°F	gr/lb
		BLDG C Block Load	Main Clg Coil	7/14	10.6	127.7	124.2	5,312	76.7	55.1	41.5	52.0	44.8	40.1

Coil Location			Heating Coil Selection				
System	Zone	Room	Component	Total Capacity MBh	Airflow cfm	Entering Dry Bulb °F	Leaving Dry Bulb °F
		BLDG C Block Load	Main Htg Coil	-170.5	5,312	66.1	100.0

Component Location			Miscellaneous Component Selection							
System	Zone	Room	Component	Design Airflow cfm Ach/hr		Outside Air %	SADB Clg Htg °F °F		Clg VAV Minimum cfm	Htg VAV Maximum cfm
RTU			Return Fan	5,528						
RTU			Optional Vent Fan	408		100				
RTU			System Exhaust Fan	624						
		BLDG C Block Load	Primary Fan	5,312		7.7	52.0			
		BLDG C Block Load	Diffuser	5,312	7.4	7.7	52.0	100.0		