Design Information

Weather: Omaha, NE, US

Winter Design Conditions

Outside db	-8	°F
Inside db	72	°F
Design TD	80	°F

Summer Design Conditions

Outside db	100	°F
Inside db	75	°F
Design TD	25	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	56	gr/lb

Heating Summary

Structure	65548	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	65548	Btuh

Sensible Cooling Equipment Load Sizing

Structure	29929	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.05	
Equipment sensible load	31515	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	3729	3729
Volume (ft³)	29187	29187
Air changes/hour	0.28	0.15
Equiv. AVF (cfm)	136	73

Latent Cooling Equipment Load Sizing

Structure	4652	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	4652	Btuh
Equipment total load	36167	Btuh
Req. total capacity at 0.70 SHR	3.8	ton

Heating Equipment Summary

Make		
Trade		
Model		
GAMA ID		
Efficiency	80	AFUE
Heating input	0	Btuh
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	1427	cfm
Air flow factor	0.022	cfm/Btuh
Static pressure	0	in H2O
Space thermostat		

Cooling Equipment Summary

Make		
Trade		
Cond		
Coil		
ARI ref no.		
Efficiency	0	SEER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	1427	cfm
Air flow factor	0.048	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0.87	

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