



Load Short Form
Entire House
Hansen Mechanical

Job:
Date: Jan 26, 2023
By: KR

27714 Silver Spur Street, Steamboat Springs, Co 80487

Project Information

For: Zulejkic Guest House
29860 Co Road 14, Steamboat Springs, Co 80487

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	-12	92	Method	Simplified
Inside db (°F)	72	72	Construction quality	Average
Design TD (°F)	84	20	Fireplaces	0
Daily range	-	H		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	42	-36		

HEATING EQUIPMENT

Make	
Trade	
Model	
AHRI ref	
Efficiency	95.5 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	3526 cfm
Air flow factor	0.019 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	3526 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	1.00

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Garage	3075	129428	43401	2429	1891
Bedroom	222	12176	6840	229	298
Bathroom	81	2440	376	46	16
Stairs Up	105	0	0	0	0
Live/Dine/Kitch	518	23662	23445	444	1022
Storage	820	20159	6853	378	299

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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Entire House	d	4820	187866	80915	3526	3526
Other equip loads			4586	1073		
Equip. @ 1.00 RSM				81988		
Latent cooling				0		
TOTALS		4820	192451	81988	3526	3526

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Project Summary
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Notes:

Design Information

Weather: Hayden/Yampa (AWOS), CO, US

Winter Design Conditions

Outside db	-12 °F
Inside db	72 °F
Design TD	84 °F

Summer Design Conditions

Outside db	92 °F
Inside db	72 °F
Design TD	20 °F
Daily range	H
Relative humidity	50 %
Moisture difference	-36 gr/lb

Heating Summary

Structure	92377 Btuh
Ducts	95489 Btuh
Central vent (63 cfm)	4586 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	192451 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	4820	4820
Volume (ft³)	80000	80000
Air changes/hour	0.28	0.15
Equiv. AVF (cfm)	373	200

Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	95.5 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	3526 cfm
Air flow factor	0.019 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Sensible Cooling Equipment Load Sizing

Structure	18079 Btuh
Ducts	62836 Btuh
Central vent (63 cfm)	1073 Btuh
Outside air	
Blower	0 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	81988 Btuh

Latent Cooling Equipment Load Sizing

Structure	-3638 Btuh
Ducts	-3927 Btuh
Central vent (63 cfm)	-1213 Btuh
Outside air	
Equipment latent load	0 Btuh
Equipment Total Load (Sen+Lat)	81988 Btuh
Req. total capacity at 0.85 SHR	8.0 ton

Cooling Equipment Summary

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	0 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	3526 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	1.00

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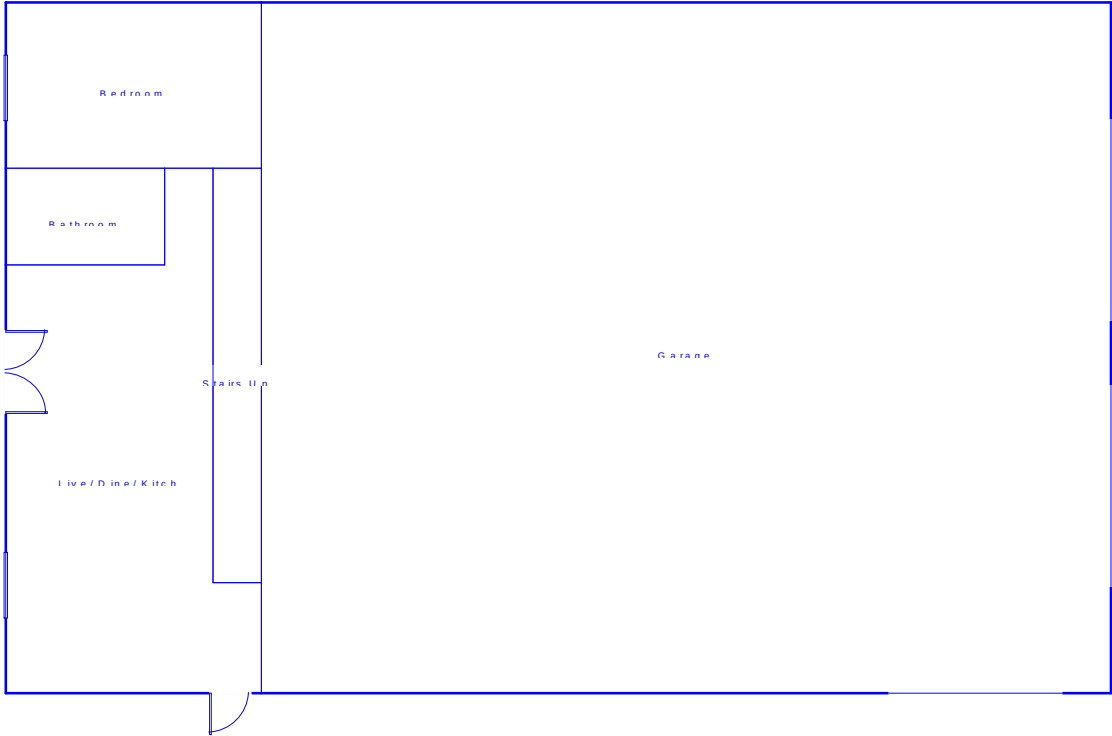


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Main Level



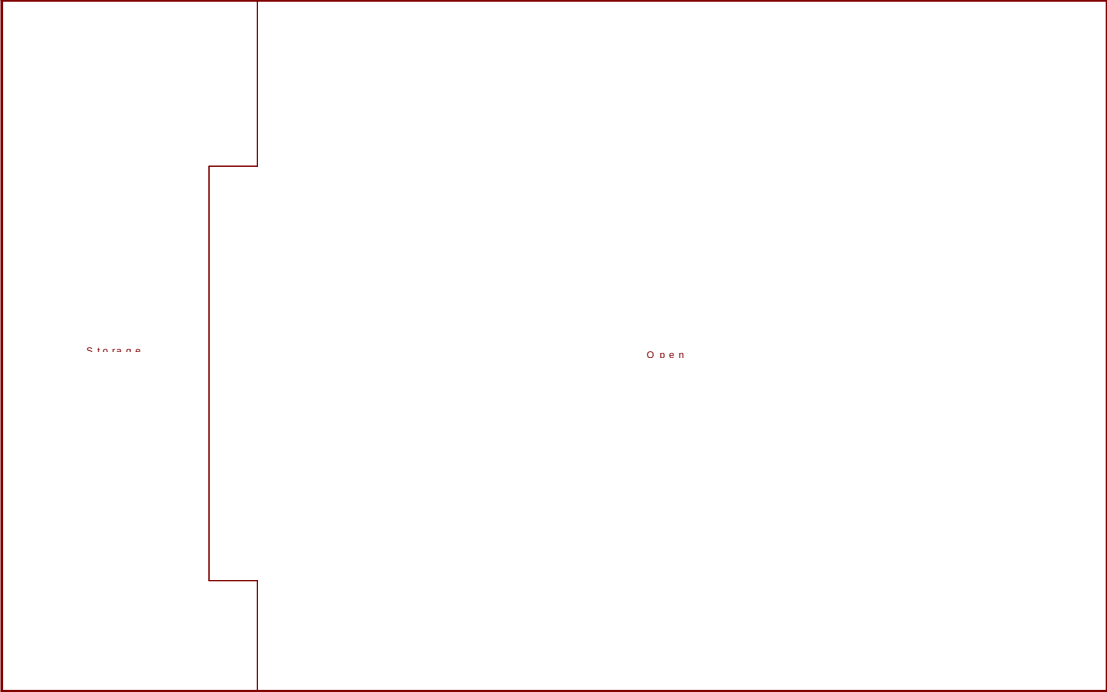
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Upper Level



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