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Project Information

For Davis - XXX TBD
XXX, Lake City, FL 32064

Notes

Design Information

Weather Gainesville Rgnl, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Ventilation Method ASHRAE 62 2-2010

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	47	gr/lb

Heating Summary

Structure	11395	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	11395	Btuh

Sensible Cooling Equipment Load Sizing

Structure	12257	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	y	
Rate/swing multiplier	1 00	
Equipment sensible load	12257	Btuh

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	660	660
Volume (ft³)	6600	6600
Air changes/hour	0 41	0 22
Equiv AVF (cfm)	45	24

Latent Cooling Equipment Load Sizing

Structure	1168	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	1168	Btuh
Equipment Total Load (Sen+Lat)	13424	Btuh
Req total capacity at 0 80 SHR	1 3	ton

Heating Equipment Summary

Make	Daikin
Trade	DAIKIN
Model	2MX18AXVU
AHRI ref	207216088

Efficiency	9 HSPF2	
Heating input		
Heating output	17000	Btuh @ 47°F
Temperature rise	33	°F
Actual air flow	467	cfm
Air flow factor	0 041	cfm/Btuh
Static pressure	0 50	in H2O

Space thermostat
Capacity balance point = 20 °F

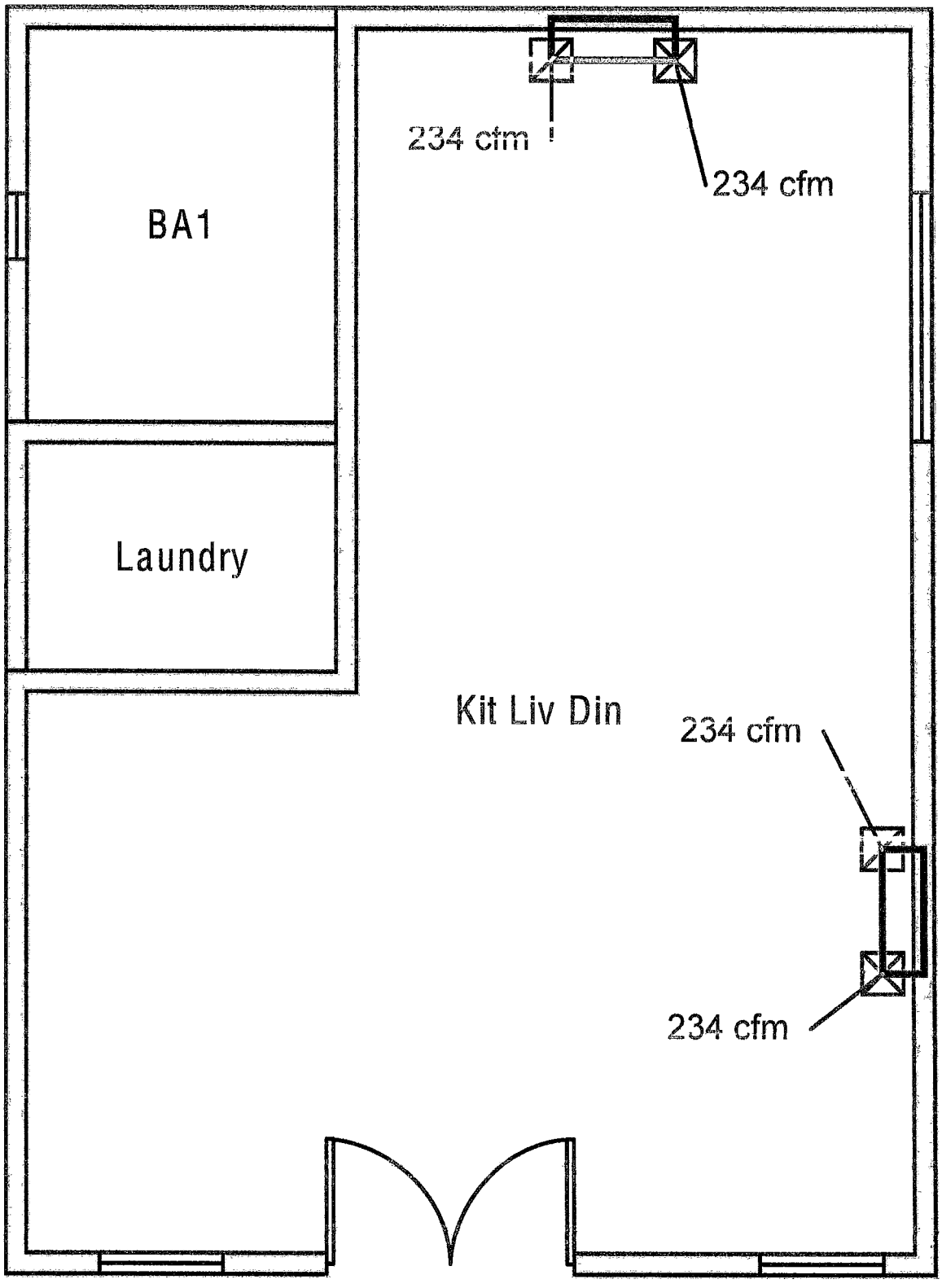
Cooling Equipment Summary

Make	Daikin
Trade	DAIKIN
Cond	2MX18AXVU
Coil	2 ea CTX07AXVJU
AHRI ref	207216088

Efficiency	10 0 EER2, 17 SEER2	
Sensible cooling	13600	Btuh
Latent cooling	3400	Btuh
Total cooling	17000	Btuh
Actual air flow	467	cfm
Air flow factor	0 038	cfm/Btuh
Static pressure	0 50	in H2O
Load sensible heat ratio	0 91	

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

First Floor



Job #: Davis - XXX TBD
Performed by E-Calcs Plus, Inc for:
Davis - XXX TBD
XXX
Lake City FL 32064

E-Calcs Plus, Inc
Serving all of Florida
Phone 833 322 5271 License HERS Rater ID# 07
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Scale 1 · 45

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Available Static Pressure

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0 50	0 50
Pressure losses		
Coil	0	0
Heat exchanger	0	0
Supply diffusers	0 03	0 03
Return grilles	0 03	0 03
Filter	0 10	0 10
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0 34	0 34

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	0	0
Measured length of trunk	0	0
Equivalent length of fittings	0	0
Total length	0	0
Total effective length		0

Friction Rate

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0	< 0 06	0	< 0 06
Return Ducts	0	< 0 06	0	< 0 06

Fitting Equivalent Length Details

Supply TotalEL=0

Return TotalEL=0

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Cooling Equipment

Design Conditions

Outdoor design DB	91 9°F	Sensible gain	12257	Btuh	Entering coil DB	75 0°F
Outdoor design WB	76 2°F	Latent gain	1168	Btuh	Entering coil WB	62 5°F
Indoor design DB	75 0°F	Total gain	13424	Btuh		
Indoor RH	50%	Estimated airflow	467	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type	Split ASHP				
Manufacturer.	Daikin		Model	2MX18AXVU+2 ea CTX07AXVJU	
Actual airflow	467	cfm			
Sensible capacity	13877	Btuh	113% of load		
Latent capacity	1334	Btuh	114% of load		
Total capacity	15211	Btuh	113% of load	SHR	91%

Heating Equipment

Design Conditions

Outdoor design DB	33 0°F	Heat loss	11395	Btuh	Entering coil DB	70 0°F
Indoor design DB	70 0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type	Split ASHP						
Manufacturer	Daikin		Model	2MX18AXVU+2 ea CTX07AXVJU			
Actual airflow	467	cfm					
Output capacity	17000	Btuh	149% of load		Capacity balance	20	°F
Supplemental heat required	0	Btuh			Economic balance	-99	°F

Meets all requirements of ACCA Manual S