Job: 23013-01 Date: 4-11-23 By: Amy Musser

26 Crabapple Ln., Asheville, NC 28804 Phone: 828-348-4723 Fax: 828-253-8347 Email: amy@vandemusser.com Web: www.vandemusser.com

Project Information

For: Soufl Const.

147 Abundance Run, Asheville, NC 28805

Notes:

Design Information

Weather: Asheville Municipal, NC, US

Winter Design Conditions

Summer Design Conditions

Outside db Inside db	19 °F 70 °F	Outside db Inside db	91 °F 75 °F
Design TD	51 °F	Design TD Daily range	16 °F M
		Relative humidity Moisture difference	50 % 37 gr/lb

Heating Summary

Sensible Cooling Equipment Load Sizing

Structure	26616	Btuh	Structure	18082	Btuh
Ducts	3534	Btuh	Ducts	2526	Btuh
Central vent (SER=50% 56 cfm)	1448	Btuh	Central vent (SER=50% 56 cfm)	465	Btuh
Energy recovery			Energy recovery		
Humidification	0	Btuh	Blower	0	Btuh
Piping	0	Btuh			
Piping Equipment load	31599	Btuh	Use manufacturer's data	٧	,
• •			Rate/swing multiplier	1.00	
Infiltration			Equipment sensible load	21073	Btuh

Intiltration

Method Construction quality		Simplified Tight	Latent Cooling Equipmer	nt Load S	izing
Fireplaces		1 (Average)	Structure	1547	Btuh
			Ducts	714	Btuh
			Central vent (LER=50% 56 cfm)	653	Btuh
	Heating	Cooling	Energy recovery		
Area (ft²)	257 7	2577	Equipment latent load	2914	Btuh
Volume (ft³)	23931	23931	• •		
Air changes/hour	0.20	0.08	Equipment Total Load (Sen+Lat)	23987	Btuh
Equiv. AVF (cfm)	80	32	Req. total capacity at 0.80 SHR	2.2	ton

Heating Equipment Summary

Generic

Cooling Equipment Summary

Generic

Trade			Trade			
Model SEE	R 15.0, HSPF 8.5		Cond	SEER 15.0, HS	SPF 8.5	
AHRI ref			Coil AHRI ref			
Efficiency	8.5	HSPF	Efficiency		12.8 EER, 15 SEE	R
Heating input			Sensible coo	ling	2400	0 Btuh
Heating output	29851	Btuh @ 47°F	Latent cooling		600	
Temperature rise Actual air flow	29 1000	°F cfm	Total cooling Actual air flow		3000 100	
Actual all flow Air flow factor	0.033		Actual all llow		0.04	
Static pressure		in H2O	Static pressu		0.04	0 in H2O
Space thermostat			Load sensible		8.0	
Capacity balance	point = 21 °F					

Make

Doolaun.

Backup:

Make

Input = 9 kW, Output = 31768 Btuh, 100 AFUE

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

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Project Summary

Vandemusser Design, PLLC

26 Crabapple Ln., Asheville, NC 28804 Phone: 828-348-4723 Fax: 828-253-8347 Email: amy@vandemusser.com Web: www.vandemusser.com

Project Information

Soufl Const. For:

147 Abundance Run, Asheville, NC 28805

Notes:

Design Information

Weather: Asheville Municipal, NC, US

Winter Design Conditions

91 F	
75 °F	
16 °F	
M	
idity 50 %	
reńce 37 gr/lb	
	73 F 16 °F M idity 50 %

Heating Summary

Sensible Cooling Equipment Load Sizing

Summer Design Conditions

23013-01

Amy Musser

Date: 4-11-23

Structure Ducts Central vent (14 cfm)	5890 0 0	Btuh Btuh Btuh	Structure Ducts Central vent (14 cfm)	2195 Btuh 0 Btuh 0 Btuh
Humidification	0	Btuh Btuh	Blower	0 Btuh
Piping Equipment load	589Ŏ		Use manufacturer's data	у
Infiltration			Rate/swing multiplier Equipment sensible load	1.00 [°] 2195 Btuh

Infiltration

Method Construction quality		Simplified Tight	Latent Cooling Equipment Load Sizing				
Fireplaces		1 (Average)	Structure	377	Btuh		
•		, ,	Ducts	0	Btuh		
			Central vent (14 cfm)	0	Btuh		
	Heating	Cooling	,				
Area (ft²)	668	668	Equipment latent load	377	Btuh		
Volume (ft³)	4642	4642	• •				
Air changes/hour	0.24	0.10	Equipment Total Load (Sen+Lat)	2572	Btuh		
Equiv. AVF (cfm)	19	8	Req. total capacity at 0.70 SHR	0.3	ton		

Heating Equipment Summary

Cooling Equipment Summary

Make Trade Model AHRI ref	n/a n/a n/a n/a			Make Trade Cond Coil AHRI ref	n/a n/a n/a n/a n/a		
Efficiency Heating input Heating outpoor Temperature Actual air flow Air flow factor Static pressur Space therm	ut rise V - re	0 0 0 0 0 0	cfm	Efficiency Sensible coo Latent cooling Total cooling Actual air flo Air flow facto Static pressu Load sensib	oling ng y w or are	n/a 0 0 0 0 0 0	Btuh Btuh Btuh cfm cfm/Btuh in H2O

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



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Project Summary *Main lev zone* Vandemusser Design, PLLC

Job: 23013-01 Date: 4-11-23 **Amy Musser**

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Project Information

Soufl Const. For:

147 Abundance Run, Asheville, NC 28805

Notes:

Design Information

	Weather:	Asheville Municipal, NC, US				
Winter Desig	n Conditions	Summer Design Co	onditions			
Outside db Inside db Design TD	19 °F 70 °F 51 °F	Outside db Inside db Design TD Daily range Relative humidity Moisture difference	91 °F 75 °F 16 °F M 50 % 37 gr/lb			
Heating S	Summary	Sensible Cooling Equipme	ent Load Sizing			
Structure Ducts Central vent (27 cfm)	15460 Btuh 2690 Btuh 0 Btuh	Ducts	13041 Btuh 2112 Btuh 0 Btuh			
Humidification	0 Btuh 0 Btuh	Blower	0 Btuh			
Piping Equipment load Infilt	18150 Btuh	Use manufacturer's data Rate/swing multiplier Equipment sensible load	y 1.00 15153 Btuh			
Method	Simplif	Latent Cooling Equipmen	nt Load Sizing			
Construction quality Fireplaces	Ti 1 (Avera	ight	599 Btuh 371 Btuh 0 Btuh			
Area (ft²)		ing 248 Equipment latent load	970 Btuh			
Volume (ft³) Air changes/hour Equiv. AVF (cfm)		871 0.07 Equipment Total Load (Sen+Lat) 17 Req. total capacity at 0.70 SHR	16123 Btuh 1.8 ton			
Heating Equip	nent Summary	Cooling Equipment	Cooling Equipment Summary			
Make n/a Trade n/a Model n/a AHRI ref n/a Efficiency Heating input Heating output Temperature rise Actual air flow Air flow factor Static pressure Space thermostat	n/a 0 Btuh 0 °F 0 cfm 0 cfm/E 0 in H2	Sensible cooling Latent cooling Total cooling Actual air flow Btuh Air flow factor	n/a 0 Btuh 0 Btuh 0 Btuh 0 cfm 0 cfm/Btuh 0 in H2O 0			

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



2023-Apr-11 16:12:39



Project Summary Upper zone Vandemusser Design, PLLC

Job: 23013-01 Date: 4-11-23 **Amy Musser**

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Project Information

For:

Soufl Const. 147 Abundance Run, Asheville, NC 28805

Notes:

Design Information

	Weather: Asheville N	Municipal, NC, US			
Winter Desig	n Conditions	Summer Design Cor	ditions		
Outside db Inside db Design TD	19 °F 70 °F 51 °F	Outside db Inside db Design TD Daily range Relative humidity Moisture difference	91 °F 75 °F 16 °F M 50 % 37 gr/lb		
Heating S	ummary	Sensible Cooling Equipmen	nt Load Sizing		
Structure Ducts Central vent (14 cfm)	5266 Btuh 844 Btuh 0 Btuh	Structure Ducts Central vent (14 cfm)	3073 Btuh 445 Btuh 0 Btuh		
Humidification Piping	0 Btuh 0 Btuh	Blower	0 Btuh		
Equipment load Infiltr	6110 Btuh	Use manufacturer's data Rate/swing multiplier Equipment sensible load	y 1.00 3518 Btuh		
Method	Simplified	Latent Cooling Equipment	Load Sizing		
Construction quality Fireplaces	Tight 1 (Average)	Structure Ducts Central vent (14 cfm)	571 Btuh 343 Btuh 0 Btuh		
Area (ft²)	Heating Cooling 661 661	Equipment latent load	914 Btuh		
Volume (ft³) Air changes/hour Equiv. AVF (cfm)	5418 5418 0.20 0.08 18 7	Equipment Total Load (Sen+Lat) Req. total capacity at 0.70 SHR	4432 Btuh 0.4 ton		
Heating Equipm	nent Summary	Cooling Equipment Summary			
Make n/a Trade n/a Model n/a Model n/a AHRI ref n/a Efficiency Heating input Heating output Temperature rise Actual air flow Air flow factor Static pressure Space thermostat	n/a 0 Btuh 0 °F 0 cfm 0 cfm/Btuh 0 in H2O n/a	Make n/a Trade n/a Cond n/a Coil n/a AHRI ref n/a Efficiency Sensible cooling Latent cooling Total cooling Actual air flow Air flow factor Static pressure Load sensible heat ratio	n/a 0 Btuh 0 Btuh 0 Btuh 0 cfm 0 cfm/Btuh 0 in H2O 0		

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



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wrightsoft Load Multizone Summary Report

23013-01 Job: Date: 4-11-23 **Amy Musser**

Vandemusser Design, PLLC

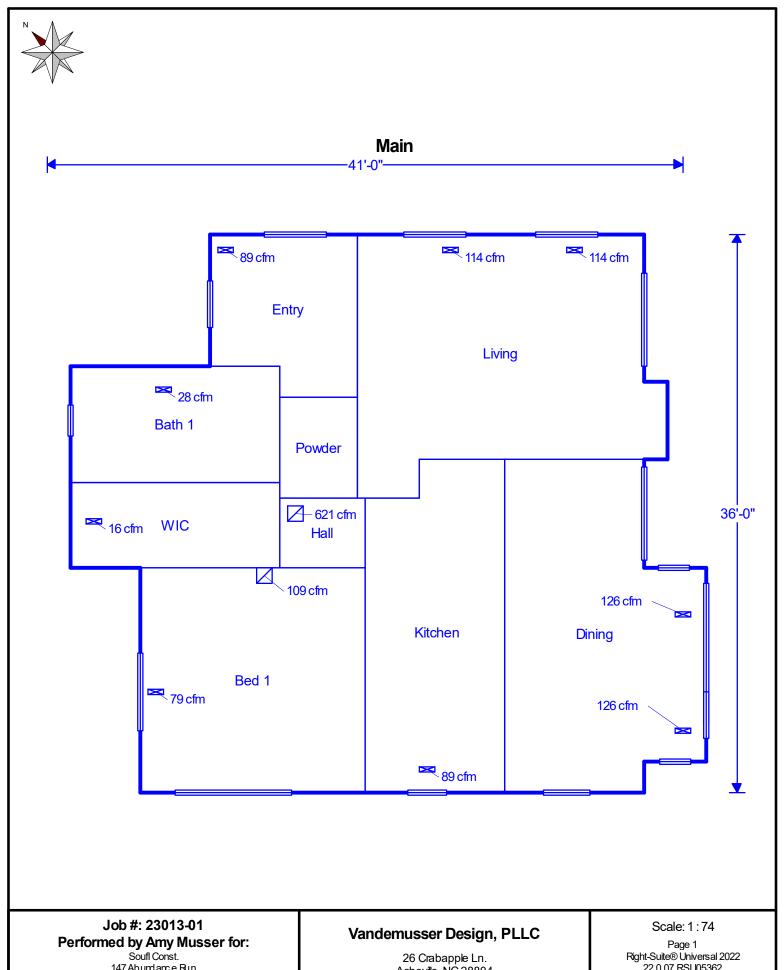
 $26\ Crabapple\ Ln,\ Asheville,\ NC\ 28804\ Phone:\ 828-348-4723\ Fax:\ 828-253-8347\ Email:\ any @vandemusser.com\ Web:\ www.vandemusser.com\ Web:\ www.wa$

Infiltration Summary

ZONE NAME	Volume ft³	Heat ACH	ing AVF cfm	HTM Btuh/ft²	Volume ft³	Cool ACH	ing AVF cfm	HTM Btuh/ft²
Bsmt zone Main lev zone Upper zone	4642 13871 5418	0.24 0.18 0.20	19 43 18	1.2 1.2 1.2	4642 13871 5418	0.10 0.07 0.08	8 17 7	0.2 0.2 0.2
Entire House	23931	0.20	80	1.2	23931	0.08	32	0.2

Load and AVF Summary

ROOM NAME	Area ft²	Htg load Btuh	Clg load Btuh	Htg AVF cfm	Clg AVF cfm
Cond bsmt	668	5890	2195	195	105
Bsmt zone	668	5890	2195	195	105
Living	286	6898	3980	229	191
Entry	91	1704	1860	57	89
Powder	33	0	0	0	0
Bath 1	101	855	406	28	19
WIC	74	497	137	16	7
Bed 1	210	1933	1649	64	79
Hall	25	0	0	0	0
Kitchen	185	1145	1850	38	89
Dining	244	5119	5271	170	253
Main lev zone	1248	18150	15153	602	726
Upper Hall	174	1077	711	36	34
Bath 2	104	1490	560	49	27
Bed 3	177	1739	1063	58	51
Bed 2	206	1806	1184	60	57
Upper zone	661	6110	3518	203	169
Entire House	2577	30150	20020	1000	1000

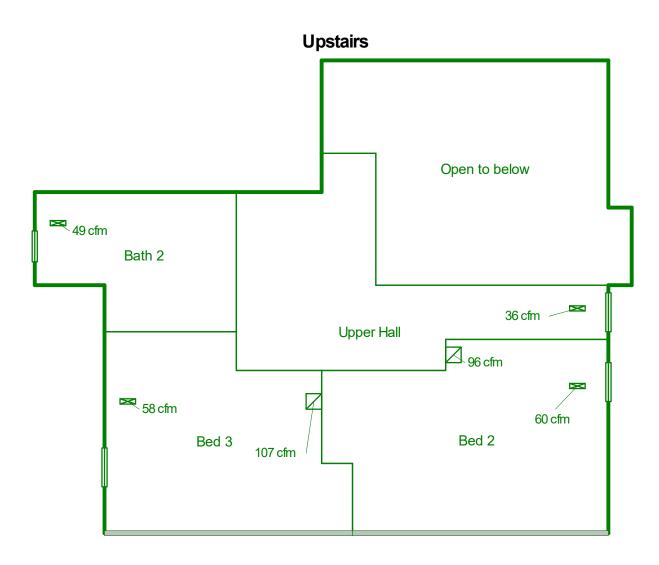


147 Ab undance Run Asheville, NC 28805

Asheville, NC 28804 Phone: 828-348-4723 Fax: 828-253-8347 www.van.dem.us.ser.com amy@vandemusser.com

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Job #: 23013-01 Performed by Amy Musser for:

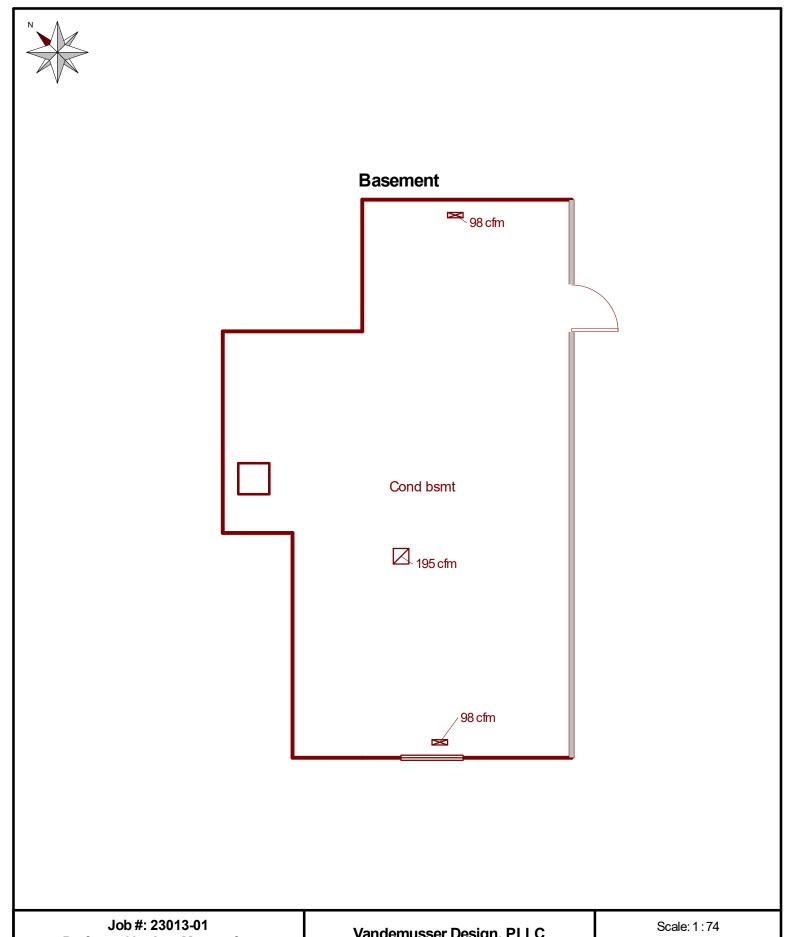
Soufl Const. 147 Ab und anc e Run Asheville, NC 28805

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Scale: 1:74

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Performed by Amy Musser for: Soufl Const.

147 Ab und anc e Run Asheville, NC 28805

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ENERGY STAR Single-Family New Homes National HVAC Design Report, Version 3 / 3.1(Rev. 11)

 HVAC Designer Responsibilities: Complete one National HVAC Design Report for each system design for a house plan, created for either the specific plan configuration (i.e., elevation, option, orientation, & county) of the home to be certified or for a plan that is intended to be built with different configurations (i.e., different elevations, options, and/or orientations). Visit www.energystar.gov/newhomeshvacdesign and see Footnote 2 for more information. Obtain efficiency features (e.g., window performance, insulation levels, and infiltration rate) from the builder or Rater. Provide the completed National HVAC Design Report to the builder or credentialed HVAC contractor and to the Rater. 											
1. Design Overview											
1.1 Designer name: Amy Musser 1.2 Select which party you are providing these design services to: 1.3 Name of company you are providing these design services to (if different than Item 1.1): 1.4 Area that system serves: 1.5 Is cooling system for a temporary occupant load? 1.6 House plan: 1.7 Select which party you are providing these design services to: 1.8 Builder 1.9 Soufl Const. 1.9 Check box to indicate whether the system design is site-specific or part of a group: 1.5 Is cooling system for a temporary occupant load? 1.6 House plan: 1.7 Select which party you are providing these design services to: 1.8 Builder 1.9 Check box to indicate whether the system design is site-specific or part of a group: 1.9 Site-specific design. Option(s) & elevation(s) modeled: 1.9 Custom: 147 Abundance Run 1.9 Group design. Group #: 0 out of 0 total groups for this house plan. 1.9 Configuration modeled:											
	esigner /erified										
Airflow:											
2.1 Ventilation airflow design rate & run-time meet the requirements of ASHRAE 62.2-2010, 2013 or 2016											
2.2 Ventilation airflow rate required by 62.2 for a continuous system: 56 CFM											
2.3 Design for this system: Vent. airflow rate: 56 CFM Run-time per cycle: 60 minutes Cycle time: 60 minutes	-										
System Type & Controls:											
2.4 Specified system type: ☐ Supply ☐ Exhaust ■ Balanced											
2.5 Specified control location: (e.g., Master bath, utility room)											
2.6 Specified controls allow the system to operate automatically, without occupant intervention.											
2.7 Specified controls include a readily-accessible ventilation override and a label has also been specified if its function is not obvious (e.g., a label is required for a toggle wall switch, but not for a switch that's on the ventilation equipment).											
2.8 For any outdoor air inlet designed to connect to a ducted return of the HVAC system, specified controls automatically restrict airflow using a motorized damper during ventilation off-cycle and occupant override.											
Sound: 2.9 The fan of the specified system is rated ≤ 3 sones if intermittent and ≤ 1 sone if continuous, or exempted											
Efficiency:											
2.10 If Vent System controller operates the HVAC fan, then HVAC fan operation is intermittent and either the fan type in Item 4.7 is ECM / ICM or the controls will reduce the run-time by accounting for HVAC system heating or cooling hours.											
2.11 If bathroom fans are specified as part of the system, then they are ENERGY STAR certified											
Air Inlet Location: (Complete this section if system has a specified air inlet location; otherwise check "N/A")											
2.12 Inlet pulls ventilation air directly from outdoors and not from attic, crawlspace, garage, or adjacent dwelling unit											
2.13 Inlet is ≥ 2 ft. above grade or roof deck; ≥ 10 ft. of stretched-string distance from known contamination sources (e.g.,											
stack, vent, exhaust, vehicles) not exiting the roof, and ≥ 3 ft. from known sources exiting the roof											
3. Room-by-Room Heating & Cooling Loads											
3.1 Room-by-room loads calculated using: ■ Unabridged ACCA Manual J v8 □ 2013 ASHRAE Fundamentals □ Other per AHJ											
3.2 Indoor design temperatures used in loads are 70°F for heating and 75°F for cooling											
3.3 Outdoor design temperatures used in loads: (See Footnote 13 and energystar.gov/hvacdesigntemps) County & State, or US Territory, selected: Buncombe, NC Cooling season: 91 °F Heating season: 19 °F											
3.4 Number of occupants used in loads: 4											
3.5 Conditioned floor area used in loads: 2577 Sq. Ft.											
3.6 Window area used in loads: 361 Sq. Ft.											
3.7 Predominant window SHGC used in loads: 0.25											
3.8 Infiltration rate used in loads: Summer: 0.08 Winter: 0.20											
3.9 Mechanical ventilation rate used in loads: 56 CFM											
Loads At Design Conditions (kBtuh) N NE E SE S SW W NW 3.10 Sensible heat gain (By orientation) 21.4 22.8 23.1 22.4 20.3 21.1 21.0 21.1	-										
3.11 Latent heat gain (Not by grientation) 2.0	-										
Cooling 3.11 Eatent fleat gain (Not by orientation) 2.9 3.12 Total heat gain (By orientation) 24.3 25.7 26.0 25.3 23.2 24.0 23.9 24.0	-										
3.12 Iotal heat gain (By orientation) 24.3 25.7 26.0 25.3 25.2 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 24.0 25.5 25.5 24.0 25.5 25.5 24.0 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5	_										
Heating 3.14 Total heat loss (Not by orientation) 31.6											

Bold/italic values have been manually overridden



ENERGY STAR Single-Family New Homes National HVAC Design Report, Version 3 / 3.1(Rev. 11)

4. F	leating & Cooling Equip	oment Selection									Designer Verified
4.1	Equipment selected per AC	CCA Manual S (see F	ootnot	e 25 & 26).							
	Conditioner / Heat Pum			tioner or heat pump will be							□ N/A
	Equipment type:			only air conditioner or		oling & heating	g heat	pump			-
4.3 Condenser manufacturer & model: Generic SEER 15.0, HSPF 8.5											
4.4 Evaporator / fan coil manufacturer & model: Generic											
4.5 AHRI reference #:											-
4.6 AHRI listed efficiency: 12.82/ 15 EER / SEER Air-source heat pump: 8.5 HSPF Ground-source heat pump: COP											-
4.7 Evaporator fan type: ☐ PSC ☐ ECM / ICM ☐ Other:											-
4.8 Compressor type: ☐ Single-speed ☐ Two-speed ☐ Variable-speed											-
4.9 Latent capacity at design conditions, from OEM expanded performance data: 0 kBtuh											
4.10 Sensible capacity at design conditions, from OEM expanded performance data: 0 kBtuh											
4.11 Total capacity at design conditions, from OEM expanded performance data: 0 kBtuh										-	
	Air-source heat pump cap			8 kBtuh		7°F: 29.9	kBtu		□ N/A		-
4.13 Cooling sizing % = Total capacity (Item 4.11) divided by maximum total heat gain (Item 3.12): 0 %											-
4.14 Complete this Item if Condition B Climate will be used to select sizing limit in Item 4.15. Otherwise, check "N/A": ■ N/A											-
4.14.1 Load sensible heat ratio = Max. sensible heat gain (Item 3.10) / Max. total heat gain (Item 3.12) = 89%										-	
		· · · ·		esigntemps to determine th	is value	for the design	location	on) =	1.2		-
4.15 Check box of applicable cooling sizing limit from chart below:										<u>-</u>	
	ipment Type (Per Item 4.2)				Con	npressor Type		m 4.8)			
Clin	nate Condition (Per Item 4.	14)	- ;	Single-Speed		Two-Spe	ed		Variab	le-Spe	ed
For Cooling-Only Equipment or For Cooling Mode of Heat Pump in Condition A Climate			Recommended: 90 – 115% Allowed: 90 – 130%			Recommended: 90 – 120% Allowed: 90 – 140%			Recommende Allowed: 96		
For Cooling Mode of Heat Pump in Condition B Climate											olus 15 kBtuh
4.16 Cooling sizing % (4.13) is within cooling sizing limit (4.15)											
Furnace (Complete if furnace will be installed; otherwise check "N/A")											■ N/A
4.17 Furnace manufacturer & model:										ı	
4.18 Listed efficiency: AFUE											-
4.19 Total capacity: kBtuh										-	
4.20 Heating sizing % = Total capacity (Item 4.19) divided by total heat loss (Item 3.14):										-	
4.21 Check box of applicable heating sizing limit from chart below:										-	
When Used for Heating Only When Paired With Cooling											
□ 100 - 140% □ Recommended: 100 – 140% Allowed: 100 – 400%											
4.22 Heating sizing % (4.20) is within heating sizing limit (4.21)											
5. Duct Design (Complete if heating or cooling equipment will be installed with ducts; otherwise check "N/A")											□ N/A
5.1 Duct system designed for the equipment selected in Section 4, per ACCA Manual D done by installer										IXI	
5.2 Design HVAC fan airflow: Cooling mode 1000 CFM Heating mode 1000 CFM										-	
5.3 Design HVAC fan speed setting (e.g., low, medium, high): Cooling mode Medium Heating mode Medium										-	
5.4	Design total external static	pressure (correspond	ing to	the mode with the higher a	airflow in	Item 5.2):		0 IV	VC		-
	Room-by-room design airfl		$\overline{}$								-
, , , , , , , , , , , , , , , , , , ,		Design Airflow	low Room Name		Design Airflow		Room Name			De	esign Airflow
<u> </u>	Doth 1	(CFM)	12	Dourler		(CFM)	22				(CFM)
2	Bath 1 Bath 2	19 27	12	Powder Upper Hall		0 34	23 24				
			1	+ ''		7					
3	Bed 1 Bed 2	79 57	14 15	WIC		1	25 26				
			16				27				
5	Bed 3	51									
6 7	Cond bsmt	105 253	17 18				28 29				
-	Dining Entry						30				
8	Entry	89	19								
10	Hall Kitchen	0 89	20				31 32				
11	Livina	191	22				UZ	Total for a	all rooms		1000