



Load Short Form Entire House

Touchstone Heating and Air Inc

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Job:
Date: Jun 01, 2013
By:

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Project Information

For: Daniel and Jamie Decker, Bryan Zechor const.
lake City, Lake City, fla 32025
Phone: (386)752-8653

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	37	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	11	52		

HEATING EQUIPMENT

Make York
Trade York
Model YHJD24S\$
AHRI ref 4465687

Efficiency 7.7 HSPF
Heating input 73 Btuh @ 47°F
Heating output 0 °F
Temperature rise 800 cfm
Actual air flow 0.028 cfm/Btuh
Air flow factor 0.05 in H2O
Static pressure
Space thermostat

COOLING EQUIPMENT

Make York
Trade York
Cond YHJD24S\$
Coil AHR24B3X
AHRI ref 4465687

Efficiency 13 SEER
Sensible cooling 53 Btuh
Latent cooling 23 Btuh
Total cooling 75 Btuh
Actual air flow 800 cfm
Air flow factor 0.040 cfm/Btuh
Static pressure 0.05 in H2O
Load sensible heat ratio 0.45

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Office	440	10044	8945	280	358
Bath	60	3032	1848	85	74
Storage	264	12021	7308	335	293
Hallway	50	3569	1883	100	75
Entire House	814	28666	19984	800	800
Other equip loads		0	0		
Equip. @ 0.97			19384		
Latent cooling			23310		
TOTALS		28666	42694	800	800

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



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Project Summary

Entire House

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490 se 3rd ave, lake butler, fla 32054 Phone: (386)496-3467 Fax: (386)496-3147 Email: rntouchstone@hotmail.com License: CAC058069

Project Information

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lake City, Lake City, fla 32025
Phone: (386)752-8653

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

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

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 52 gr/lb

Heating Summary

Structure 27888 Btuh
Ducts 778 Btuh
Central vent (0 cfm) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 28666 Btuh

Sensible Cooling Equipment Load Sizing

Structure 18690 Btuh
Ducts 1293 Btuh
Central vent (0 cfm) 0 Btuh
Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 19384 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft ²)	814	814
Volume (ft ³)	5798	5798
Air changes/hour	0.61	0.32
Equiv. AVF (cfm)	59	31

Latent Cooling Equipment Load Sizing

Structure 23006 Btuh
Ducts 304 Btuh
Central vent (0 cfm) 0 Btuh
Equipment latent load 23310 Btuh

Equipment total load 42694 Btuh
Req. total capacity at 0.70 SHR 2.3 ton

Heating Equipment Summary

Make York
Trade York
Model YHJD24SS
AHRI ref 4465687

Efficiency 7.7 HSPF
Heating input 73 Btuh @ 47°F
Heating output 0 °F
Temperature rise 800 cfm
Actual air flow 0.028 cfm/Btuh
Air flow factor 0.05 in H2O
Static pressure
Space thermostat

Cooling Equipment Summary

Make York
Trade York
Cond YHJD24SS
Coil AHR24B3X
AHRI ref 4465687

Efficiency 13 SEER
Sensible cooling 53 Btuh
Latent cooling 23 Btuh
Total cooling 75 Btuh
Actual air flow 800 cfm
Air flow factor 0.040 cfm/Btuh
Static pressure 0.05 in H2O
Load sensible heat ratio 0.46

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



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Duct System Summary

Entire House

Touchstone Heating and Air Inc

Job:
Date: Jun 01, 2013
By:

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Project Information

For: Daniel and Jamie Decker, Bryan Zechor const.
lake City, Lake City, fl 32025
Phone: (386)752-8853

External static pressure	Heating	Cooling
Pressure losses	0.05 in H2O	0.05 in H2O
Available static pressure	0 in H2O	0 in H2O
Supply / return available pressure	0.05 in H2O	0.05 in H2O
Lowest friction rate	0.03 / 0.03 in H2O	0.03 / 0.03 in H2O
Actual air flow	0 in/100ft	0 in/100ft
Total effective length (TEL)	800 cfm	800 cfm
	0 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath	h 1848	85	74	0	0	0x0	ShMt	0	0	
Hallway	h 1883	100	75	0	0	0x0	ShMt	0	0	
Office	c 2982	93	119	0	0	0x0	ShMt	0	0	
Office-A	c 2981	93	119	0	0	0x0	ShMt	0	0	
Office-B	c 2981	93	119	0	0	0x0	ShMt	0	0	
Storage	h 3654	168	146	0	0	0x0	ShMt	0	0	
Storage-A	h 3654	168	146	0	0	0x0	ShMt	0	0	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	800	800	0	0	0	0	0x 0		ShMt	