

Project Information

For: Turnsole Builders
269 SW Sedgefield Farms Glen, Fort White, FL 32038

Design Conditions

Location:

Gainesville Regional, FL, US
Elevation: 123 ft
Latitude: 30°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

33
-
-
15.0

Cooling

92
18 (M)
76
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
37
50
32.6

Cooling

75
17
50
43.8

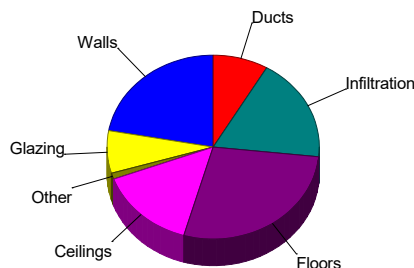
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

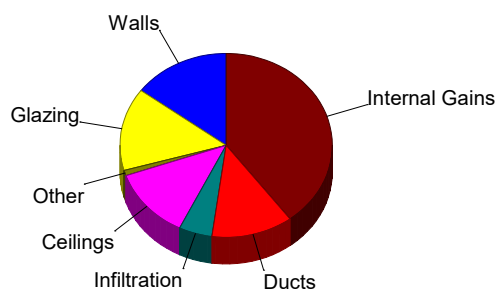
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.2	6086	22.1
Glazing	12.1	2054	7.5
Doors	14.4	288	1.0
Ceilings	2.1	4097	14.9
Floors	3.9	7643	27.8
Infiltration	2.7	5020	18.3
Ducts		2313	8.4
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		27501	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.9	3603	14.8
Glazing	20.9	3539	14.6
Doors	11.6	233	1.0
Ceilings	1.5	3028	12.5
Floors	0	0	0
Infiltration	0.7	1235	5.1
Ducts		3021	12.4
Ventilation		0	0
Internal gains		9660	39.7
Blower		0	0
Adjustments		0	0
Total		24318	100.0



Latent Cooling Load = 5044 Btuh

Overall U-value = 0.205 Btuh/ft²-°F, Window / Floor Area = 8.6 %

Data entries checked.

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Notes:

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

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

Ventilation Method MJ8

Heating Summary

Structure 25188 Btuh
 Ducts (R-6.0) 2313 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 27501 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 0

	Heating	Cooling
Area (ft²)	1967	1967
Volume (ft³)	19670	19670
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	125	66

Heating Equipment Summary

Make GENERIC 3 TON
 Trade
 Model
 AHRI ref
 Efficiency 7.5 HSPF2
 Heating input
 Heating output 36000 Btuh @ 47°F
 Temperature rise 0 °F
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat
 Capacity balance point = 0 °F

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 21298 Btuh
 Ducts (R-6.0) 3021 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data y
 Rate/swing multiplier 1.00
 Equipment sensible load 24318 Btuh

Latent Cooling Equipment Load Sizing

Structure 3344 Btuh
 Ducts 1700 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 5044 Btuh
Equipment Total Load (Sen+Lat) 29362 Btuh
 Req. total capacity at 0.83 SHR 2.4 ton

Cooling Equipment Summary

Make GENERIC 3 TON
 Trade
 Cond
 Coil
 AHRI ref
 Efficiency 12.0 EER2, 15.4 SEER2
 Sensible cooling 29880 Btuh
 Latent cooling 6120 Btuh
 Total cooling 36000 Btuh
 Actual air flow 1200 cfm
 Air flow factor 0.049 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.83

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



Manual S Compliance Report

Entire House

Turnsole Builders

Job: EC:9172796
Date: May 19, 2026
By: Energycalcs.net

ENERGYCALCS.NET 267 DELEON ROAD, DEBARY, FL 32713 Phone: 386-775-0908 Email: INFO@ENERGYCALCS.NET

Project Information

For: Turnsole Builders
269 SW Sedgefield Farms Glen, Fort White, FL 32038

Cooling Equipment

Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	24318	Btuh	Entering coil DB:	75.2°F
Outdoor design WB:	75.8°F	Latent gain:	5044	Btuh	Entering coil WB:	62.8°F
Indoor design DB:	75.0°F	Total gain:	29362	Btuh		
Indoor RH:	50%	Estimated airflow:	1200	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	GENERIC 3 TON	Model:	
Actual airflow:	1200	cfm	
Sensible capacity:	30000	Btuh	123% of load
Latent capacity:	6000	Btuh	119% of load
Total capacity:	36000	Btuh	123% of load SHR: 83%

Heating Equipment

Design Conditions

Outdoor design DB:	33.2°F	Heat loss:	27501	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:	GENERIC 3 TON	Model:			
Actual airflow:	0	cfm			
Output capacity:	36000	Btuh	131% of load	Capacity balance:	0 °F
Supplemental heat required:	0	Btuh		Economic balance:	0 °F

Meets all requirements of ACCA Manual S.

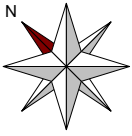


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Level 1

DUCT DESIGN AND LOAD CALCS ARE TO BE
REVIEWED BY AND APPROVED BY AC
CONTRACTOR OF RECORD

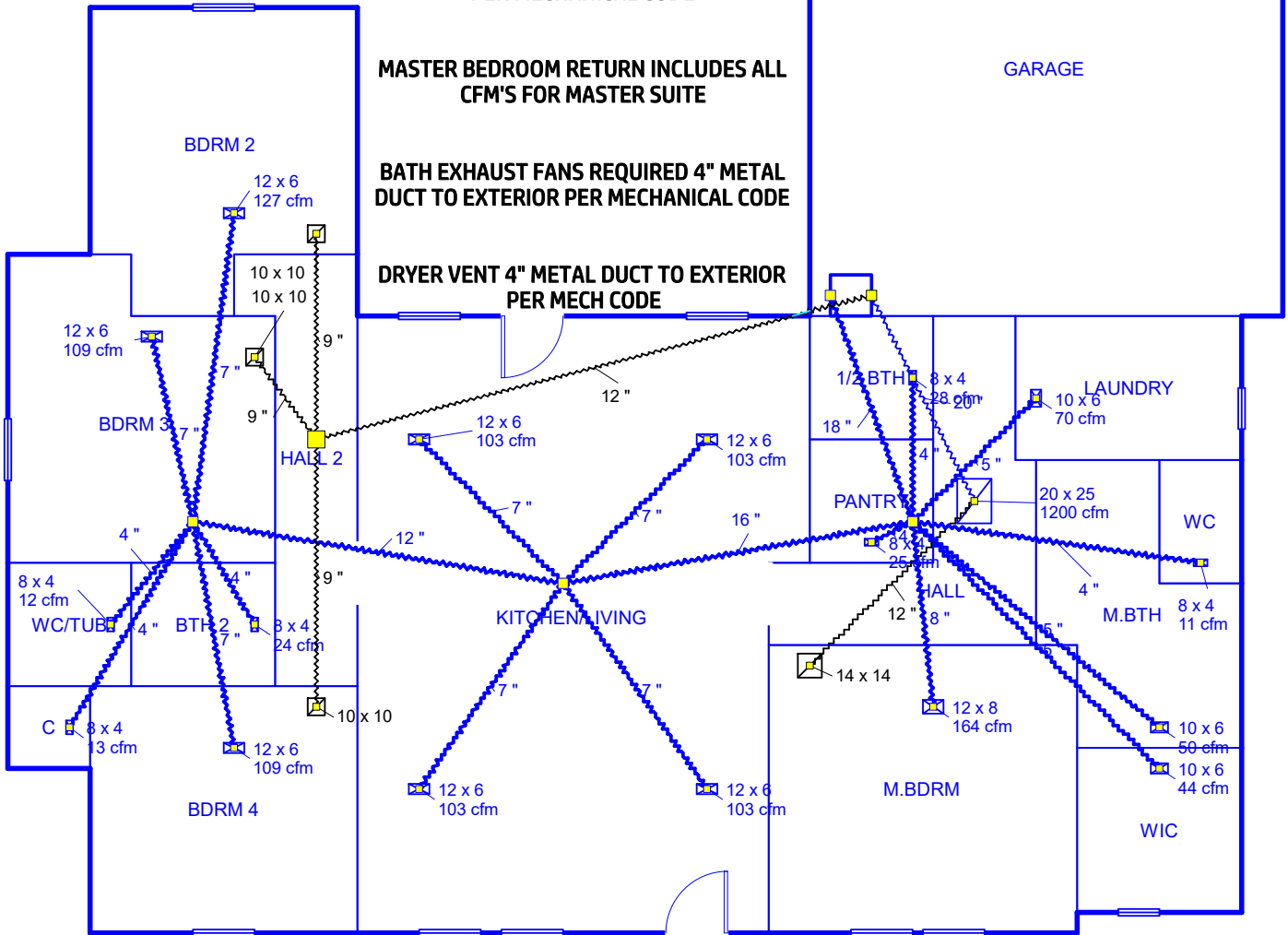
ALL INTERIOR DOORS MUST BE UNDERCUT 1"
PER MECHANICAL CODE

MASTER BEDROOM RETURN INCLUDES ALL
CFM'S FOR MASTER SUITE

BATH EXHAUST FANS REQUIRED 4" METAL
DUCT TO EXTERIOR PER MECHANICAL CODE

DRYER VENT 4" METAL DUCT TO EXTERIOR
PER MECH CODE

GARAGE



Job #: EC:9172796
Performed by Energycalcs.net for:
Turnsole Builders
269 SW Sedgefield Farms Glen
Fort White, FL 32038

Turnsole Builders
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Duct System Summary

Entire House

Turnsole Builders

Job: EC:9172796
Date: May 19, 2026
By: Energycalcs.net

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	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.50 in H2O	0.50 in H2O
Supply / return available pressure	0.395 / 0.105 in H2O	0.395 / 0.105 in H2O
Lowest friction rate	0.205 in/100ft	0.205 in/100ft
Actual air flow	0 cfm	1200 cfm
Total effective length (TEL)	244 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
1/2 BTH	c 574	0	28	0.363	4.0	0x0	VIFx	18.7	90.0	st1
BDRM 2	c 2571	0	127	0.205	7.0	0x0	VIFx	62.3	130.0	st3
BDRM 3	c 2202	0	109	0.212	7.0	0x0	VIFx	56.4	130.0	st3
BDRM 4	c 2206	0	109	0.210	7.0	0x0	VIFx	58.4	130.0	st3
BTH 2	c 495	0	24	0.216	4.0	0x0	VIFx	53.0	130.0	st3
C	c 262	0	13	0.209	4.0	0x0	VIFx	58.9	130.0	st3
KITCHEN/LIVING	c 2093	0	103	0.265	7.0	0x0	VIFx	38.9	110.0	st2
KITCHEN/LIVING-A	c 2093	0	103	0.261	7.0	0x0	VIFx	41.2	110.0	st2
KITCHEN/LIVING-B	c 2093	0	103	0.261	7.0	0x0	VIFx	41.2	110.0	st2
KITCHEN/LIVING-C	c 2093	0	103	0.265	7.0	0x0	VIFx	38.9	110.0	st2
LAUNDRY	c 1425	0	70	0.358	5.0	0x0	VIFx	20.2	90.0	st1
M.BDRM	c 3323	0	164	0.357	8.0	0x0	VIFx	20.8	90.0	st1
M.BTH	c 1022	0	50	0.337	5.0	0x0	VIFx	27.3	90.0	st1
PANTRY	c 510	0	25	0.380	4.0	0x0	VIFx	13.9	90.0	st1
WC	c 218	0	11	0.341	4.0	0x0	VIFx	25.8	90.0	st1
WC/TUB	c 238	0	12	0.215	4.0	0x0	VIFx	53.6	130.0	st3
WIC	c 899	0	44	0.333	5.0	0x0	VIFx	28.7	90.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	0	393	0.205	501	12.0	0 x 0	VinIFlx	st2
st2	Peak AVF	0	807	0.205	578	16.0	0 x 0	VinIFlx	st1
st1	Peak AVF	0	1200	0.205	679	18.0	0 x 0	VinIFlx	



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Return Branch Detail Table

Name	Grille 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	0x 0	0	1200	51.2	0.205	550	20.0	0x 0		VIFx	rst8

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst8	Peak AVF	0	1200	0.205	550	20.0	0 x 0	VinIFlx	

