



Load Short Form Entire House Webreps LLC

Job: 200 SW Signal Ct, Fort Wh...
Date: October 21, 2020
By: Josh Putman
Plan: 200 SW Signal Ct

1880 82nd Ave, Vero Beach, FL 32966 Phone: (800) 810-3280

Project Information

For: Natalia Scott
Fort White, FL
Phone: 786-375-0672
Email: nataliamscott@gmail.com

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	72	75	Construction quality	Tight
Design TD (°F)	39	17	Fireplaces	1 (Tight)
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	13	47		

HEATING EQUIPMENT

Make Mitsubishi Electric
Trade Mitsubishi Electric
Model MXZ-5C42NA2
AHRI ref 201754913
Efficiency 10.3 HSPF
Heating input
Heating output 45000 Btuh @ 47°F
Temperature rise 30 °F
Actual air flow 1350 cfm
Air flow factor 0.051 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 27 °F

COOLING EQUIPMENT

Make Mitsubishi Electric
Trade Mitsubishi Electric
Cond MXZ-5C42NA2
Coil MSZ-GL12NA (2), MSZ-GL09NA, MSZ-GL06NA (2)
AHRI ref 201754913
Efficiency 9.2 EER, 19.7 SEER
Sensible cooling 28350 Btuh
Latent cooling 12150 Btuh
Total cooling 40500 Btuh
Actual air flow 1350 cfm
Air flow factor 0.057 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.71

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Kitchen	299	5410	6373	276	365
LIVING ROOM	248	8625	5567	441	319
STAIRS	39	0	0	0	0
strge	16	0	0	0	0
Util	21	0	0	0	0
HALLWAY	81	0	0	0	0
CL	8	0	0	0	0
BATH 2	67	0	0	0	0
BEDROOM 2	179	5102	2404	261	138
CL 2	23	0	0	0	0
MASTER SUITE	186	3827	3576	195	205
M WIC	28	0	0	0	0
Mbath	58	0	0	0	0
BATH 3	54	0	0	0	0

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

BONUS ROOM	288	3466	5651	177	324
Entire House	1591	26430	23571	1350	1350
Other equip loads		5528	3282		
Equip. @ 1.00 RSM			26852		
Latent cooling			11185		
TOTALS	1591	31958	38038	1350	1350

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Notes: 200 SW Signal Ct, Fort White, Florida

Design Information

Weather: Gainesville Rgnl, FL, US

Winter Design Conditions

Outside db 33 °F
Inside db 72 °F
Design TD 39 °F

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 26430 Btuh
Ducts 0 Btuh
Central vent (85 cfm) 3598 Btuh
Outside air Humidification 1930 Btuh
Piping 0 Btuh
Equipment load 31958 Btuh

Sensible Cooling Equipment Load Sizing

Structure 23571 Btuh
Ducts 0 Btuh
Central vent (85 cfm) 1575 Btuh
Outside air Blower 1707 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 26852 Btuh

Infiltration

Method Simplified
Construction quality Tight
Fireplaces 1 (Tight)

	Heating	Cooling
Area (ft²)	1591	1591
Volume (ft³)	18353	18353
Air changes/hour	0.29	0.19
Equiv. AVF (cfm)	90	59

Latent Cooling Equipment Load Sizing

Structure 8482 Btuh
Ducts 0 Btuh
Central vent (85 cfm) 2703 Btuh
Outside air Equipment latent load 11185 Btuh

Equipment Total Load (Sen+Lat) 38038 Btuh
Req. total capacity at 0.70 SHR 3.2 ton

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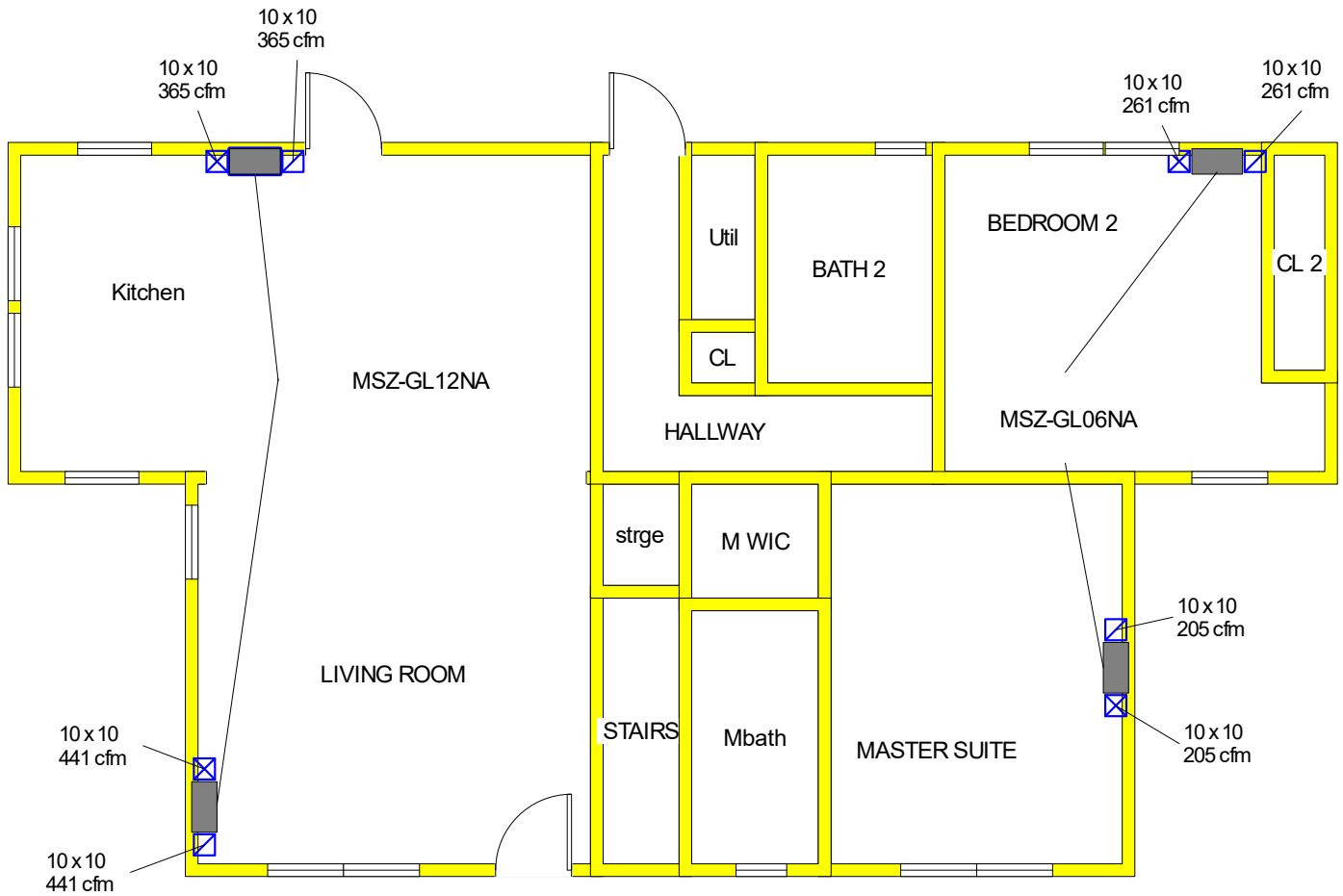
Cooling Equipment Summary

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MAIN FLOOR



Job #: 200 SW Signal Ct, Fort White, Florida
Performed by Josh Putman for:
Natalia Scott

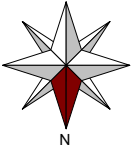
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Webreps LLC

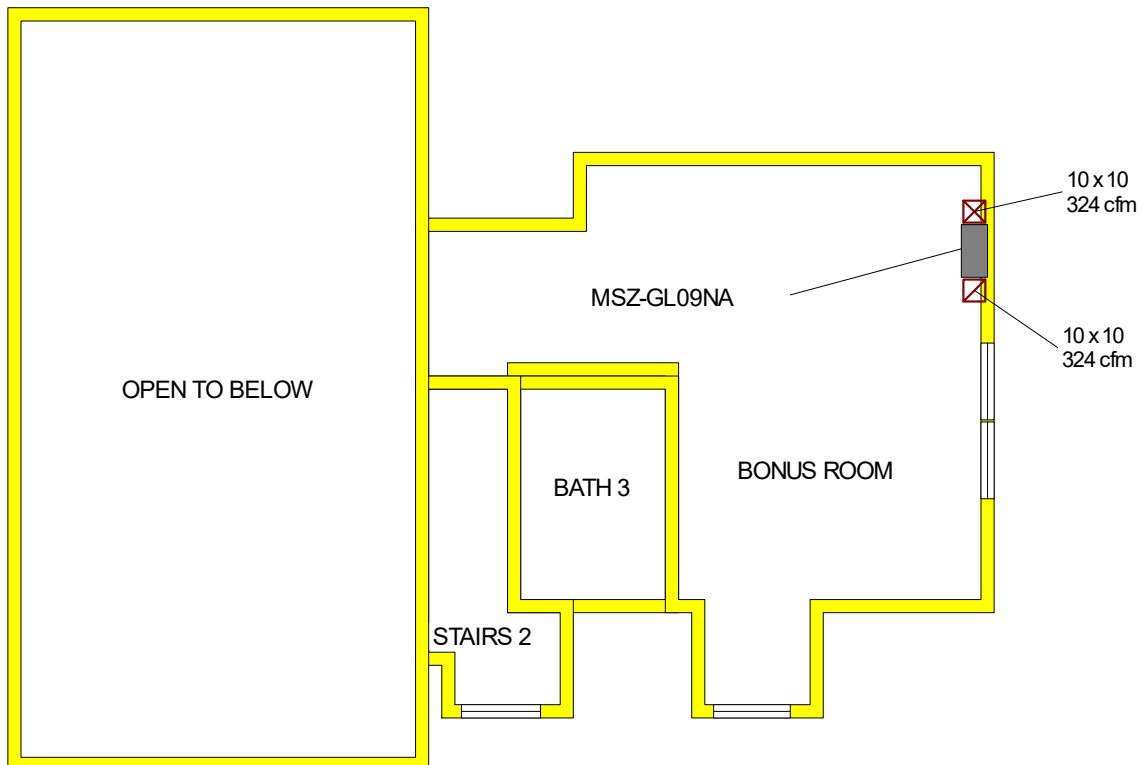
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SECOND FLOOR



Job #: 200 SW Signal Ct, Fort White, Florida
Performed by Josh Putman for:

Natalia Scott

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