



Manual S Compliance Report

Entire House

New Age Dimensions, LLC.

Job: Payne
Date: 05/02/2023
By: John PirkI
Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: Newmans Heating and Air Conditioning, Inc.
P.O. Box 5425, Gainesville, FL 32627
Phone: (352) 375 - 8555 Fax: (352) 375 - 0275
Web: www.newmansac.com Email: ed@newmansac.com

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	9679 Btuh	Entering coil DB:	80.3°F
Outdoor design WB:	76.3°F	Latent gain:	1137 Btuh	Entering coil WB:	64.5°F
Indoor design DB:	75.0°F	Total gain:	10817 Btuh		
Indoor RH:	50%	Estimated airflow:	400 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Mitsubishi Electric	Model:	MUZ-HM12NA***+MSZ-HM12NA***		
Actual airflow:	400 cfm				
Sensible capacity:	8400 Btuh	87% of load			
Latent capacity:	3600 Btuh	317% of load			
Total capacity:	12000 Btuh	111% of load	SHR:	70%	

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	5750 Btuh	Entering coil DB:	67.4°F
Indoor design DB:	68.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Mitsubishi Electric	Model:	MUZ-HM12NA***+MSZ-HM12NA***		
Actual airflow:	400 cfm				
Output capacity:	12200 Btuh	212% of load		Capacity balance:	14 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	400 cfm				
Output capacity:	3.0 kW	178% of load	Temp. rise:	23 °F	

Meets all requirements of ACCA Manual S.



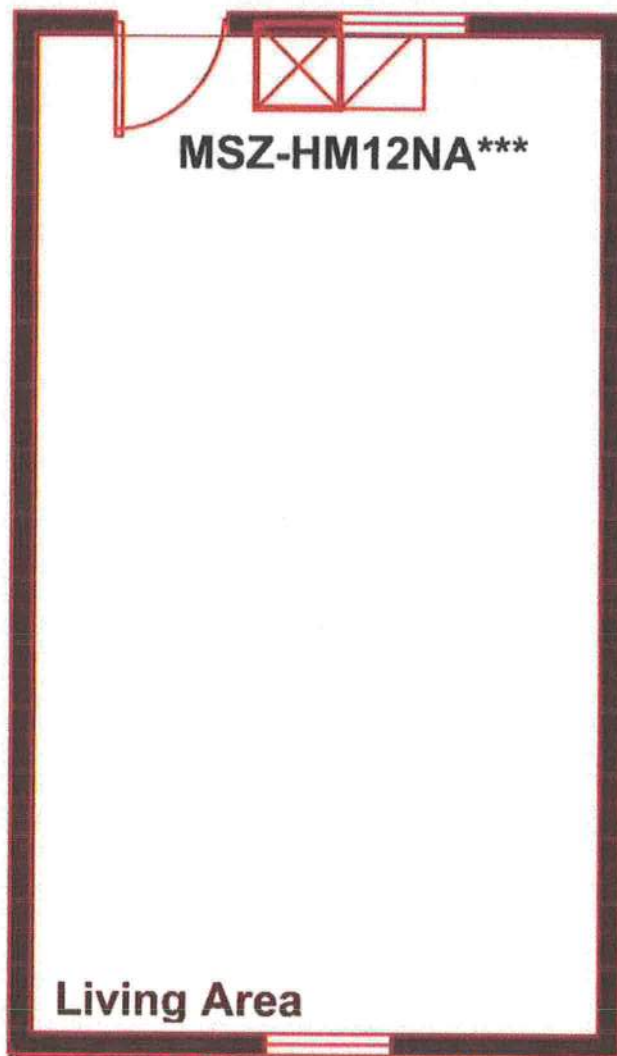
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2nd Floor



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MUZ-HM12NA***

Garage

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Load Short Form
Entire House
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Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	68	75	Construction quality	0
Design TD (°F)	35	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	47		

HEATING EQUIPMENT

Make Mitsubishi Electric
Trade Mitsubishi Electric
Model MUZ-HM12NA***
AHRI ref 202680601

Efficiency 10 HSPF
Heating input
Heating output 12200 Btuh @ 47°F
Temperature rise 28 °F
Actual air flow 400 cfm
Air flow factor 0.070 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 14 °F

Backup:
Input = 3 kW, Output = 10236 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Mitsubishi Electric
Trade Mitsubishi Electric
Cond MUZ-HM12NA***
Coil MSZ-HM12NA***
AHRI ref 202680601

Efficiency 9.9 EER, 18 SEER
Sensible cooling 8400 Btuh
Latent cooling 3600 Btuh
Total cooling 12000 Btuh
Actual air flow 400 cfm
Air flow factor 0.050 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Living Area	336	5750	7973	400	400
Entire House	336	5750	7973	400	400
Other equip loads		0	1707		
Equip. @ 0.97 RSM			9389		
Latent cooling			1137		
TOTALS	336	5750	10526	400	400

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



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