



Load Short Form

Entire House

New Age Dimensions, LLC.

Job: Copeland Mini
Date: 03/04/2024
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: Kings Heat & Air
320 N.E. 33rd Ave, Suite F, Gainesville, FL 32609
Phone: (352) 278 - 2820

Design Information

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

HEATING EQUIPMENT

Make Trane / Mitsubishi Electric
Trade Trane / Mitsubishi Electric
Model NTXMMX20A122B*
AHRI ref 209836189
Efficiency 9.3 HSPF2
Heating input
Heating output 22000 Btuh @ 47°F
Temperature rise 34 °F
Actual air flow 600 cfm
Air flow factor 0.034 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 29 °F

Backup:

Input = 5 kW, Output = 17766 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Trane / Mitsubishi Electric
Trade Trane / Mitsubishi Electric
Cond NTXMMX20A122B*
Coil (1) NTXWST06 + (1) NTXWST12
AHRI ref 209836189
Efficiency 12.7 EER2, 20 SEER2
Sensible cooling 12600 Btuh
Latent cooling 5400 Btuh
Total cooling 18000 Btuh
Actual air flow 600 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.85

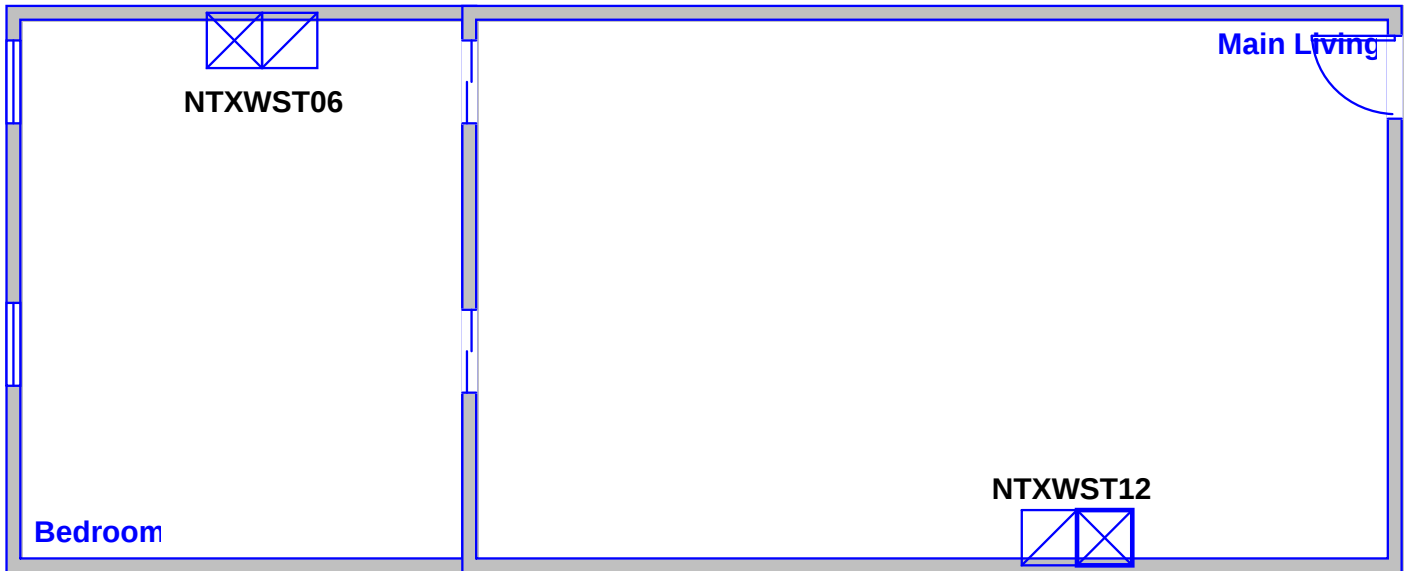
ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom	330	6875	5387	231	236
Main Living	670	10999	8295	369	364
Entire House	1000	17875	13682	600	600
Other equip loads		0	1707		
Equip. @ 0.97 RSM			14927		
Latent cooling			2781		
TOTALS	1000	17875	17708	600	600

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





Sheet 1



NTXMMX20A122B*

**Job #: Copeland Mini
Performed by John PirkI for:**

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Manual S Compliance Report

Entire House

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Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	15389	Btuh	Entering coil DB:	79.8°F
Outdoor design WB:	76.3°F	Latent gain:	2781	Btuh	Entering coil WB:	64.4°F
Indoor design DB:	75.0°F	Total gain:	18170	Btuh		
Indoor RH:	50%	Estimated airflow:	600	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Trane / Mitsubishi	Model:	NTXMMX20A122B*+(1) NTXWST06 + (1) NTXWST12		
Actual airflow:	600	cfm			
Sensible capacity:	12600	Btuh	82%	of load	
Latent capacity:	5400	Btuh	194%	of load	
Total capacity:	18000	Btuh	99%	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	17875	Btuh	Entering coil DB:	67.1°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Trane / Mitsubishi	Model:	NTXMMX20A122B*+(1) NTXWST06 + (1) NTXWST12		
Actual airflow:	600	cfm			
Output capacity:	22000	Btuh	123%	of load	
Supplemental heat required:	0	Btuh			
			Capacity balance:	29	°F
			Economic balance:	-99	°F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	600	cfm			
Output capacity:	5.2	kW	99%	Temp. rise:	27 °F

Meets all requirements of ACCA Manual S.