THERMAL LOAD CALCULATIONS FOR

CUSTOM RESIDENCE

THE ENCLAVES LOT 20

9796 EAST MIRAMONTE DRIVES

APN: 113-36-020

LAKE HAVASU, AZ 86406

USING SOFTWARE CARRIER HOURLY ANALYSIS VERSION 4.4

WHICH UTILIZES THE PROCEDURES DESCRIBED IN THE ASHRAE

FUNDAMENTALS HANDBOOK

IN LIEU OF MANUAL J

Air System Sizing Summary for ZONE 1

Project Name: 22036-LAKE HAVASU RESIDENCE
Prepared by:

07/24/2022
05:28PM

Air System Information

Air System Name	**ZONE 1**	Number of zones	**1**
Equipment Class	**SPLT AHU**	Floor Area	**1045.0** ft²
Air System Type	**SZCAV**	Location	**LAKE HAVASU CITY, Arizona**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**	Calculation Months	**Jan to Dec**
Space CFM	**Individual peak space loads**	Sizing Data	**User-Modified**

Central Cooling Coil Sizing Data

Total coil load	**1.9**	Tons	Load occurs at	**Jul 1700**	
Total coil load	**23.3**	MBH	OA DB / WB	**122.6** / **71.3**	°F
Sensible coil load	**22.5**	MBH	Entering DB / WB	**75.0** / **61.2**	°F
Coil CFM at Jul 1700	**1020**	CFM	Leaving DB / WB	**54.3** / **53.0**	°F
Max block CFM	**1020**	CFM	Coil ADP	**52.0**	°F
Sum of peak zone CFM	**1020**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.963**		Resulting RH	**45**	%
ft²/Ton	**537.2**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**22.3**		Zone T-stat Check	**0 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**1.9**	°F

Central Heating Coil Sizing Data

Max coil load	**3.9**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**1020**	CFM	BTU/(hr-ft²)	**3.7**	
Max coil CFM	**1020**	CFM	Ent. DB / Lvg DB	**70.1** / **73.6**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**1020**	CFM	Fan motor BHP	**0.12**	BHP
Standard CFM	**1004**	CFM	Fan motor kW	**0.09**	kW
Actual max CFM/ft²	**0.98**	CFM/ft²	Fan static	**0.40**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**0**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.00**	CFM/ft²			

Air Conditioning Contractors of America
Manual S (Residential Equipment Selection)

ACCA

Project Information

Name: THE ENCLAVES LOT 20 ZONE 1
City: LAKE HAVASU. AZ
State: AZ Altitude: 1133 Altitude Adjustment: 0.98

Cooling Design Information

Outdoor Design Temp:	125	°F db	Summer		
Outdoor Design Temp:	32	°F db	Winter		
Indoor Design Temp:	75	°F db	50	%RH	63 °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
23.3	22.5	0.8	0.966	0.7

Airflow Calculations

Design TD for Airflow	17
Design Sensible CFM	1

OEM Information

Manufacturer: DAY AND NIGHT OR EQUAL Furnace Model #: AFUE:
Coil or Fan-Coil Model #: FEM4X30 Condenser Model #: N4H430GKG SEER: 14.0 HSPF: 8.20

(A) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Lower CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	23	18	5	0.7918
Rated CFM @ Design RA Temperature	875	63	22	21	1	0.956
Rated CFM @ Rated RA Temperature		62	21	21		1

(B) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Higher CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	23	21	3	0.8783
Rated CFM @ Design RA Temperature	1125	63	23	22	1	0.975
Rated CFM @ Rated RA Temperature		62	23	23		1

Manufacturer's Cooling Performance Data (Interpolated)

	Design CFM	Return Air (F wb)	Outdoor Temperature = 95 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
				15	2	0.8694
Excess Latent Capacity Calculation				+ 1	- 1	
Capacity @ Design CFM / RA (F wb)	**1.2032**	**63**	**18**	**16**	**2**	**0.912**
Equipment Capacity as a % of Design			75.14%	70.96%	192.95%	

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
29	17	-22.9	-0.01

Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow

Air System Sizing Summary for ZONE 2

Project Name: 22036-LAKE HAVASU RESIDENCE
Prepared by:

07/24/2022
05:25PM

Air System Information

Air System Name	**ZONE 2**	Number of zones	**1**
Equipment Class	**PKG VERT**	Floor Area	**1596.0** ft²
Air System Type	**SZCAV**	Location	**LAKE HAVASU CITY, Arizona**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**	Calculation Months	**Jan to Dec**
Space CFM	**Individual peak space loads**	Sizing Data	**User-Modified**

Central Cooling Coil Sizing Data

Total coil load	**3.6**	Tons	Load occurs at	**Jul 1700**	
Total coil load	**43.2**	MBH	OA DB / WB	**122.6** / **71.3**	°F
Sensible coil load	**41.1**	MBH	Entering DB / WB	**85.5** / **64.4**	°F
Coil CFM at Jul 1700	**1224**	CFM	Leaving DB / WB	**54.0** / **52.0**	°F
Max block CFM	**1224**	CFM	Coil ADP	**50.4**	°F
Sum of peak zone CFM	**1224**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.950**		Resulting RH	**31**	%
ft²/Ton	**443.1**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**27.1**		Zone T-stat Check	**0 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**12.7**	°F

Central Heating Coil Sizing Data

Max coil load	**7.8**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**1224**	CFM	BTU/(hr-ft²)	**4.9**	
Max coil CFM	**1224**	CFM	Ent. DB / Lvg DB	**69.7** / **75.7**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**1224**	CFM	Fan motor BHP	**0.14**	BHP
Standard CFM	**1205**	CFM	Fan motor kW	**0.11**	kW
Actual max CFM/ft²	**0.77**	CFM/ft²	Fan static	**0.40**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**0**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.00**	CFM/ft²			

Air Conditioning Contractors of America
Manual S (Residential Equipment Selection)

ACCA

Project Information

Name: THE ENCLAVES LOT 20 ZONE 2
City: LAKE HAVASU. AZ
State: AZ Altitude: 1133 Altitude Adjustment: 0.98

Cooling Design Information

Outdoor Design Temp: 125 °F db Summer
Outdoor Design Temp: 32 °F db Winter
Indoor Design Temp: 75 °F db 50 %RH 63 °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
43.2	41.1	2.1	0.951	0.7

Airflow Calculations

Design TD for Airflow	17
Design Sensible CFM	2

OEM Information

Manufacturer: DAY AND NIGHT OR EQUAL Furnace Model #: AFUE:
Coil or Fan-Coil Model #: FEM4X61 Condenser Model #: N4H460GKG SEER: 14.0 HSPF: 8.20

(A) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Lower CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	44	38	6	0.8717
Rated CFM @ Design RA Temperature	1750	63	42	41	1	0.9729
Rated CFM @ Rated RA Temperature		62	41	41		1

(B) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Higher CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	45	44	1	0.9714
Rated CFM @ Design RA Temperature	2250	63	44	44	0	0.9941
Rated CFM @ Rated RA Temperature		62	44	44		1

Manufacturer's Cooling Performance Data (Interpolated)

	Design CFM	Return Air (F wb)	Outdoor Temperature = 95 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
				30	4	0.8779
Excess Latent Capacity Calculation				+ 1	- 1	
Capacity @ Design CFM / RA (F wb)	**2.1979**	**63**	**34**	**31**	**3**	**0.908**
Equipment Capacity as a % of Design			79.39%	75.80%	149.69%	

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
56	33	-25.0	-0.01

Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow

Air System Sizing Summary for ZONE 3

Project Name: 22036-LAKE HAVASU RESIDENCE
Prepared by:

07/24/2022
05:23PM

Air System Information

Air System Name	**ZONE 3**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**1176.0**	ft²
Air System Type	**SZCAV**		Location	**LAKE HAVASU CITY, Arizona**	

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**		Calculation Months	**Jan to Dec**	
Space CFM	**Individual peak space loads**		Sizing Data	**User-Modified**	

Central Cooling Coil Sizing Data

Total coil load	**3.0**	Tons	Load occurs at	**Jul 1700**	
Total coil load	**35.9**	MBH	OA DB / WB	**122.6** / **71.3**	°F
Sensible coil load	**35.0**	MBH	Entering DB / WB	**94.0** / **66.4**	°F
Coil CFM at Jul 1700	**816**	CFM	Leaving DB / WB	**53.6** / **51.2**	°F
Max block CFM	**816**	CFM	Coil ADP	**49.1**	°F
Sum of peak zone CFM	**816**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.976**		Resulting RH	**22**	%
ft²/Ton	**393.1**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**30.5**		Zone T-stat Check	**0 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**21.3**	°F

Central Heating Coil Sizing Data

Max coil load	**9.8**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**816**	CFM	BTU/(hr-ft²)	**8.3**	
Max coil CFM	**816**	CFM	Ent. DB / Lvg DB	**69.7** / **81.0**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**816**	CFM	Fan motor BHP	**0.10**	BHP
Standard CFM	**803**	CFM	Fan motor kW	**0.07**	kW
Actual max CFM/ft²	**0.69**	CFM/ft²	Fan static	**0.40**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**0**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.00**	CFM/ft²			

Air Conditioning Contractors of America
Manual S (Residential Equipment Selection)

ACCA

Project Information

Name: THE ENCLAVES LOT 20 ZONE 3
City: LAKE HAVASU. AZ
State: AZ Altitude: 1133 Altitude Adjustment: 0.98

Cooling Design Information

Outdoor Design Temp:	125	°F db	Summer		
Outdoor Design Temp:	32	°F db	Winter		
Indoor Design Temp:	75	°F db	50	%RH	63 °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
35.9	35	0.9	0.975	0.7

Airflow Calculations

Design TD for Airflow	17
Design Sensible CFM	2

OEM Information

Manufacturer: DAY AND NIGHT OR EQUAL Furnace Model #: AFUE:
Coil or Fan-Coil Model #: FEM4X48 Condenser Model #: N4H448GKG SEER: 14.0 HSPF: 8.20

(A) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Lower CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	36	29	7	0.8089
Rated CFM @ Design RA Temperature	1400	63	34	33	1	0.9606
Rated CFM @ Rated RA Temperature		62	34	34		1

(B) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Higher CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	37	32	5	0.8587
Rated CFM @ Design RA Temperature	1800	63	36	35	1	0.971
Rated CFM @ Rated RA Temperature		62	36	36		1

Manufacturer's Cooling Performance Data (Interpolated)

	Design CFM	Return Air (F wb)	Outdoor Temperature = 95 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
				25	2	0.9127
Excess Latent Capacity Calculation				+ 1	- 1	
Capacity @ Design CFM / RA (F wb)	**1.8717**	**63**	**28**	**26**	**2**	**0.940**
Equipment Capacity as a % of Design			77.39%	74.63%	184.74%	

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
46	27	-22.1	-0.01

Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow

Air System Sizing Summary for ZONE 4

Project Name: 22036-LAKE HAVASU RESIDENCE
Prepared by:

07/24/2022
05:31PM

Air System Information

Air System Name	**ZONE 4**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**451.0**	ft²
Air System Type	**SZCAV**		Location	**LAKE HAVASU CITY, Arizona**	

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**		Calculation Months	**Jan to Dec**	
Space CFM	**Individual peak space loads**		Sizing Data	**User-Modified**	

Central Cooling Coil Sizing Data

Total coil load	**1.8**	Tons	Load occurs at	**Sep 1600**	
Total coil load	**21.8**	MBH	OA DB / WB	**119.3** / **68.8**	°F
Sensible coil load	**19.7**	MBH	Entering DB / WB	**98.8** / **69.0**	°F
Coil CFM at Sep 1600	**408**	CFM	Leaving DB / WB	**53.4** / **50.9**	°F
Max block CFM	**408**	CFM	Coil ADP	**48.4**	°F
Sum of peak zone CFM	**408**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.901**		Resulting RH	**21**	%
ft²/Ton	**248.0**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**48.4**		Zone T-stat Check	**0 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**26.2**	°F

Central Heating Coil Sizing Data

Max coil load	**5.4**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**408**	CFM	BTU/(hr-ft²)	**11.9**	
Max coil CFM	**408**	CFM	Ent. DB / Lvg DB	**69.8** / **82.1**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**408**	CFM	Fan motor BHP	**0.05**	BHP
Standard CFM	**402**	CFM	Fan motor kW	**0.04**	kW
Actual max CFM/ft²	**0.91**	CFM/ft²	Fan static	**0.40**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**0**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.00**	CFM/ft²			

Air Conditioning Contractors of America
Manual S (Residential Equipment Selection)

ACCA

Project Information

Name: THE ENCLAVES LOT 20 ZONE 4
City: LAKE HAVASU. AZ
State: AZ Altitude: 1133 Altitude Adjustment: 0.98

Cooling Design Information

Outdoor Design Temp:	125	°F db	Summer		
Outdoor Design Temp:	32	°F db	Winter		
Indoor Design Temp:	75	°F db	50	%RH	63 °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
21.8	19.7	2.1	0.904	0.7

Airflow Calculations

Design TD for Airflow	17
Design Sensible CFM	1

OEM Information

Manufacturer: DAY AND NIGHT OR EQUAL
Furnace Model #:
AFUE:
Coil or Fan-Coil Model #: MLZ-KP24NA-U1
Condenser Model #: SUZ-KA24NA2.TH
SEER: 14.0 HSPF: 8.20

(A) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Lower CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	23	18	5	0.7918
Rated CFM @ Design RA Temperature	700	63	22	21	1	0.956
Rated CFM @ Rated RA Temperature		62	21	21		1

(B) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Higher CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	23	21	3	0.8783
Rated CFM @ Design RA Temperature	900	63	23	22	1	0.975
Rated CFM @ Rated RA Temperature		62	23	23		1

Manufacturer's Cooling Performance Data (Interpolated)

	Design CFM	Return Air (F wb)	Outdoor Temperature = 95 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
				15	2	0.8694
Excess Latent Capacity Calculation				+ 0	- 0	
Capacity @ Design CFM / RA (F wb)	**1.0535**	**63**	**18**	**15**	**2**	**0.875**
Equipment Capacity as a % of Design			80.32%	77.74%	104.45%	

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
22	13	-20.1	-0.01

Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow

Air System Sizing Summary for ZONE 5

Project Name: 22036-LAKE HAVASU RESIDENCE
Prepared by:

07/24/2022
05:55PM

Air System Information

Air System Name	**ZONE 5**	Number of zones	**1**
Equipment Class	**SPLT AHU**	Floor Area	**3513.0** ft²
Air System Type	**SZCAV**	Location	**LAKE HAVASU CITY, Arizona**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**	Calculation Months	**Jan to Dec**
Space CFM	**Individual peak space loads**	Sizing Data	**Calculated**

Central Cooling Coil Sizing Data

Total coil load	**3.6**	Tons	Load occurs at	**Jul 1800**	
Total coil load	**43.6**	MBH	OA DB / WB	**120.0** / **70.6**	°F
Sensible coil load	**42.5**	MBH	Entering DB / WB	**80.7** / **63.7**	°F
Coil CFM at Jul 1800	**1619**	CFM	Leaving DB / WB	**56.0** / **54.4**	°F
Max block CFM	**1619**	CFM	Coil ADP	**53.2**	°F
Sum of peak zone CFM	**1619**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.975**		Resulting RH	**39**	%
ft²/Ton	**966.1**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**12.4**		Zone T-stat Check	**1 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**0.0**	°F

Central Heating Coil Sizing Data

Max coil load	**5.8**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**1619**	CFM	BTU/(hr-ft²)	**1.7**	
Max coil CFM	**1619**	CFM	Ent. DB / Lvg DB	**70.0** / **73.4**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**1619**	CFM	Fan motor BHP	**0.19**	BHP
Standard CFM	**1593**	CFM	Fan motor kW	**0.14**	kW
Actual max CFM/ft²	**0.46**	CFM/ft²	Fan static	**0.40**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**0**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.00**	CFM/ft²			

Air Conditioning Contractors of America
Manual S (Residential Equipment Selection)

ACCA

Project Information

Name: THE ENCLAVES LOT 20 ZONE 5
City: LAKE HAVASU. AZ
State: AZ Altitude: 1133 Altitude Adjustment: 0.98

Cooling Design Information

Outdoor Design Temp: 125 °F db Summer
Outdoor Design Temp: 32 °F db Winter
Indoor Design Temp: 75 °F db 50 %RH 63 °F wb

Manual J Load Calculations

Total Load	Sensible	Latent	SHR	Heat Loss
43.6	42.5	1.1	0.975	0.7

Airflow Calculations

Design TD for Airflow	17
Design Sensible CFM	2

OEM Information

Manufacturer: DAY AND NIGHT OR EQUAL Furnace Model #: AFUE:
Coil or Fan-Coil Model #: FEM4X61 Condenser Model #: N4H460GKG SEER: 14.0 HSPF: 8.20

(A) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Lower CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	44	38	6	0.8717
Rated CFM @ Design RA Temperature	1750	63	42	41	1	0.9729
Rated CFM @ Rated RA Temperature		62	41	41		1

(B) Manufacturer's Cooling Performance Data

Entering Coil Temperature = 75 (F db)	Higher CFM	Return Air (F wb)	Outdoor Temperature = 125 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
Rated CFM @ Rated RA Temperature		67	45	43	2	0.9566
Rated CFM @ Design RA Temperature	2250	63	44	43	1	0.9808
Rated CFM @ Rated RA Temperature		62	44	43	1	0.987

Manufacturer's Cooling Performance Data (Interpolated)

	Design CFM	Return Air (F wb)	Outdoor Temperature = 95 (F db) Total BTUH	Sensible BTUH	Latent BTUH	SHR
				32	2	0.9377
Excess Latent Capacity Calculation				+ 1	- 1	
Capacity @ Design CFM / RA (F wb)	**2.2727**	**63**	**34**	**33**	**2**	**0.953**
Equipment Capacity as a % of Design			78.67%	76.90%	147.09%	

Manufacturer's Heat Pump Data

Capacity @ 47 °F db	Capacity @ 17 °F db	Balance Point	Supplemental Heat Required
56	33	-25.0	-0.01

Manufacturer's Furnace Data

Input Capacity	Output Capacity	AFUE	Desired Temp. Rise	Calculated Airflow