



Manual S Compliance Report

AHU-1 Main

LoadCalcs

Job: Project
Date: Date
By: Designer
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

Project Information

For: Project
Address, City, State Zip

Cooling Equipment

Design Conditions

Outdoor design DB:	92.8°F	Sensible gain:	26871	Btuh	Entering coil DB:	75.9°F
Outdoor design WB:	78.6°F	Latent gain:	7390	Btuh	Entering coil WB:	63.4°F
Indoor design DB:	75.0°F	Total gain:	34260	Btuh		
Indoor RH:	50%	Estimated airflow:	1597	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Ruud	Model:	RP1542AJ1NA+RH1T4821STANJAUSA
Actual airflow:	1597	cfm	
Sensible capacity:	29423	Btuh	109% of load
Latent capacity:	10250	Btuh	139% of load
Total capacity:	39673	Btuh	116% of load SHR: 74%

Heating Equipment

Design Conditions

Outdoor design DB:	29.1°F	Heat loss:	35962	Btuh	Entering coil DB:	68.4°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Ruud	Model:	RP1542AJ1NA+RH1T4821STANJAUSA
Actual airflow:	1597	cfm	
Output capacity:	31914	Btuh	89% of load
Supplemental heat required:	4048	Btuh	
Capacity balance:	28	°F	
Economic balance:	-99	°F	

Backup equipment type:	Elec strip		
Manufacturer:	Ruud	Model:	RXBH-1724A18J
Actual airflow:	1597	cfm	
Output capacity:	17.0	KW	161% of load Temp. rise: 33 °F

Meets all requirements of ACCA Manual S.



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Manual S Compliance Report

AHU-2 Master/BR2

LoadCalcs

Job: Project
Date: Date
By: Designer
Plan: XX-XXX

Lancaster, KY40444 Phone: 813-539-5118 Email: info@calcs.com Web: www.calcs.com

Project Information

For: Project
Address, City, State Zip

Cooling Equipment

Design Conditions

Outdoor design DB:	92.8°F	Sensible gain:	10689	Btuh	Entering coil DB:	76.4°F
Outdoor design WB:	78.6°F	Latent gain:	4901	Btuh	Entering coil WB:	64.1°F
Indoor design DB:	75.0°F	Total gain:	15589	Btuh		
Indoor RH:	50%	Estimated airflow:	623	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Ruud	Model:	RP1518BJ1NA+RH1T2417STANAA	
Actual airflow:	623	cfm		
Sensible capacity:	12573	Btuh	118% of load	
Latent capacity:	4872	Btuh	99% of load	
Total capacity:	17445	Btuh	112% of load	SHR: 72%

Heating Equipment

Design Conditions

Outdoor design DB:	29.1°F	Heat loss:	20845	Btuh	Entering coil DB:	67.6°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Ruud	Model:	RP1518BJ1NA+RH1T2417STANAA	
Actual airflow:	623	cfm		
Output capacity:	12066	Btuh	58% of load	Capacity balance: 38 °F
Supplemental heat required:	8779	Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:	Ruud	Model:	RXBH-1424?07	
Actual airflow:	623	cfm		
Output capacity:	7.2	KW	118% of load	Temp. rise: 36 °F

Meets all requirements of ACCA Manual S.



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Manual S Compliance Report

AHU-3 Second

LoadCalcs

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Project Information

For: Project
Address, City, State Zip

Cooling Equipment

Design Conditions

Outdoor design DB:	92.8°F	Sensible gain:	10893	Btuh	Entering coil DB:	76.3°F
Outdoor design WB:	78.6°F	Latent gain:	4392	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	15285	Btuh		
Indoor RH:	50%	Estimated airflow:	620	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Ruud	Model:	RP1518BJ1NA+RH1T2417STANAA	
Actual airflow:	620	cfm		
Sensible capacity:	12573	Btuh	115% of load	
Latent capacity:	4872	Btuh	111% of load	
Total capacity:	17445	Btuh	114% of load	SHR: 72%

Heating Equipment

Design Conditions

Outdoor design DB:	29.1°F	Heat loss:	13726	Btuh	Entering coil DB:	67.8°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Ruud	Model:	RP1518BJ1NA+RH1T2417STANAA	
Actual airflow:	620	cfm		
Output capacity:	12066	Btuh	88% of load	Capacity balance: 28 °F
Supplemental heat required:	1660	Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:	Ruud	Model:	RXBH-1424?05	
Actual airflow:	620	cfm		
Output capacity:	4.8	KW	119% of load	Temp. rise: 24 °F

Meets all requirements of ACCA Manual S.



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