



Manual S Compliance Report

AH2

Barra Designs,LLC.

Job: Manual S Sample
 Date: 1/27/24
 By: db

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Project Information

For: Manual S Sample, Barra Designs,LLC.
 72 Albermarle Ave, New Rochelle, NY 10801
 Email: info@barradesigns.com

Cooling Equipment

Design Conditions

Outdoor design DB:	95.5°F	Sensible gain:	34813	Btuh	Entering coil DB:	77.7°F
Outdoor design WB:	76.6°F	Latent gain:	4847	Btuh	Entering coil WB:	63.8°F
Indoor design DB:	75.0°F	Total gain:	39660	Btuh		
Indoor RH:	50%	Estimated airflow:	1560	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Pkg ASHP			
Manufacturer:	Goodman MFG.	Model:	GSZ140481K* + ARUF61D14** + TXV	
Actual airflow:	1560	cfm		
Sensible capacity:	37941	Btuh	109%	of load
Latent capacity:	5992	Btuh	124%	of load
Total capacity:	43933	Btuh	111%	of load SHR: 86%

Heating Equipment

Design Conditions

Outdoor design DB:	32.0°F	Heat loss:	47549	Btuh	Entering coil DB:	68.7°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Pkg ASHP			
Manufacturer:	Goodman MFG.	Model:	GSZ140481K* + ARUF61D14** + TXV	
Actual airflow:	1560	cfm		
Output capacity:	45745	Btuh	96%	of load
Supplemental heat required:	1804	Btuh		
			Capacity balance:	32 °F
			Economic balance:	-99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	1560	cfm		
Output capacity:	13.3	kW	95%	of load Temp. rise: 27 °F

Meets all requirements of ACCA Manual S.

