

### Project Information

For:

### Cooling Equipment

#### Design Conditions

Outdoor design DB:	110°F	Sensible gain:	30301 Btuh	Entering coil DB:	78.8°F
Outdoor design WB:	69.5°F	Latent gain:	5404 Btuh	Entering coil WB:	63.2°F
Indoor design DB:	75.0°F	Total gain:	35705 Btuh		
Indoor RH:	50%	Estimated airflow:	1317 cfm		

#### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZ140421K+ASPT47C14B		
Actual airflow:	1317 cfm				
Sensible capacity:	30810 Btuh	102% of load			
Latent capacity:	8690 Btuh	161% of load			
Total capacity:	39500 Btuh	111% of load	SHR:	78%	

### Heating Equipment

#### Design Conditions

Outdoor design DB:	41.8°F	Heat loss:	21020 Btuh	Entering coil DB:	68.0°F
Indoor design DB:	70.0°F				

#### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZ140421K+ASPT47C14B		
Actual airflow:	1317 cfm				
Output capacity:	39000 Btuh	186% of load		Capacity balance:	27 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:	Goodman	Model:			
Actual airflow:	1317 cfm				
Output capacity:	8.0 kW	130% of load	Temp. rise:	22 °F	

Meets all requirements of ACCA Manual S.

**Project Information**

For:

**Cooling Equipment**

**Design Conditions**

Outdoor design DB:	110°F	Sensible gain:	21809	Btuh	Entering coil DB:	79.8°F
Outdoor design WB:	69.5°F	Latent gain:	3522	Btuh	Entering coil WB:	63.5°F
Indoor design DB:	75.0°F	Total gain:	25332	Btuh		
Indoor RH:	50%	Estimated airflow:	933	cfm		

**Manufacturer's Performance Data at Actual Design Conditions**

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZ140301K+ASPT29B14A
Actual airflow:	933	cfm	
Sensible capacity:	21840	Btuh	100% of load
Latent capacity:	6160	Btuh	175% of load
Total capacity:	28000	Btuh	111% of load SHR: 78%

**Heating Equipment**

**Design Conditions**

Outdoor design DB:	41.8°F	Heat loss:	19966	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:	Goodman Mfg.	Model:	GSZ140301K+ASPT29B14A
Actual airflow:	933	cfm	
Output capacity:	28000	Btuh	140% of load
Supplemental heat required:	0	Btuh	
			Capacity balance: 34 °F
			Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:	Goodman	Model:	
Actual airflow:	933	cfm	
Output capacity:	8.0	kW	137% of load Temp. rise: 28 °F

Meets all requirements of ACCA Manual S.

## Project Information

For:

## Cooling Equipment

### Design Conditions

Outdoor design DB:	110°F	Sensible gain:	13355 Btuh	Entering coil DB:	79.4°F
Outdoor design WB:	69.5°F	Latent gain:	2413 Btuh	Entering coil WB:	63.5°F
Indoor design DB:	75.0°F	Total gain:	15768 Btuh		
Indoor RH:	50%	Estimated airflow:	600 cfm		

### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZ140181L+ASPT25B14A		
Actual airflow:	600 cfm				
Sensible capacity:	14040 Btuh	105% of load			
Latent capacity:	3960 Btuh	164% of load			
Total capacity:	18000 Btuh	114% of load	SHR:	78%	

## Heating Equipment

### Design Conditions

Outdoor design DB:	41.8°F	Heat loss:	9641 Btuh	Entering coil DB:	68.7°F
Indoor design DB:	70.0°F				

### Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZ140181L+ASPT25B14A		
Actual airflow:	600 cfm				
Output capacity:	15600 Btuh	162% of load		Capacity balance:	29 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:	Goodman	Model:			
Actual airflow:	600 cfm				
Output capacity:	5.0 kW	177% of load	Temp. rise:	27 °F	

Meets all requirements of ACCA Manual S.