

Project Name: 6467-01 Angels of Hope Home Care
Address: 605 6th Street Southeast, Winter Haven, Florida 33880, United States
Weather Station: Lakeland CO, FL

Equipment Information

AHRI:	215318750	Manufacturer:	Carrier
Equipment Type:	Variable Speed HP	Furnace Model:	N/A
Compressor Speed:	Inverter	Coil/Fan Coil:	45MUAAQ30XX3
Condenser:	37MUHAQ30AA3	SEER2:	16.9
EER2:	11.7	HSPF2:	10

Load Calculations (BTUH)

11,660.00

Heating Load

33,335.00

Cooling Load

Airflow Calculations

359.00

Heating (CFM)

1,187.00

Cooling (CFM)

Manual J - Design Basis & Load Summary

Load Calculations

33,335

33,335

TOTAL LOAD

7,270.00

LATENT

26,065.00

SENSIBLE

0.782

JSHR

11,660.00

HEAT LOSS

Design Conditions

75°F db / 63°F wb

Mixed Air Calculations

Relative humidity: 50.00%

Winter

Indoor: 70°F Outdoor: 41°F

Summer

Indoor: 75°F Outdoor: 91°F

Manual S - Equipment Sizing Compliance

COMPLIANT

Equipment Type:	Variable Speed HP	Compressor Speed:	Inverter
Sizing Condition:	Simplified	BTU Range:	N/A

Size Factor	Value	Mfr. Capacity (BTUH)	Size Limit	Status
Total Cooling	1.050	35,000	0.90 - 1.30	PASS
Latent Cooling	1.940	14,100	>= 1.00	PASS
Min Compressor Heating	0.620	7,260	<= 0.80	PASS

This report demonstrates compliance with ANSI/ACCA Manual S 2023 (3rd Edition) equipment sizing guidelines.