



**Project Summary**  
**Entire House**  
**WEBREPS**

Job: Sample Manual J  
 Date: Current  
 By: Craig C. Brooks

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**Project Information**

For: CUSTOMER

Notes:

**Design Information**

Weather: Vero Beach, FL, US

**Winter Design Conditions**

|            |       |
|------------|-------|
| Outside db | 43 °F |
| Inside db  | 70 °F |
| Design TD  | 27 °F |

**Summer Design Conditions**

|                     |          |
|---------------------|----------|
| Outside db          | 90 °F    |
| Inside db           | 75 °F    |
| Design TD           | 15 °F    |
| Daily range         | L        |
| Relative humidity   | 50 %     |
| Moisture difference | 61 gr/lb |

**Heating Summary**

|                      |           |
|----------------------|-----------|
| Structure            | 7097 Btuh |
| Ducts                | 1394 Btuh |
| Central vent (0 cfm) | 0 Btuh    |
| Humidification       | 0 Btuh    |
| Piping               | 0 Btuh    |
| Equipment load       | 8491 Btuh |

**Sensible Cooling Equipment Load Sizing**

|                         |           |
|-------------------------|-----------|
| Structure               | 5907 Btuh |
| Ducts                   | 2135 Btuh |
| Central vent (0 cfm)    | 0 Btuh    |
| Blower                  | 0 Btuh    |
| Use manufacturer's data | n         |
| Rate/swing multiplier   | 0.95      |
| Equipment sensible load | 7640 Btuh |

**Infiltration**

|                      |            |
|----------------------|------------|
| Method               | Simplified |
| Construction quality | Average    |
| Fireplaces           | 0          |

**Latent Cooling Equipment Load Sizing**

|                                 |           |
|---------------------------------|-----------|
| Structure                       | 1735 Btuh |
| Ducts                           | 576 Btuh  |
| Central vent (0 cfm)            | 0 Btuh    |
| Equipment latent load           | 2312 Btuh |
| Equipment total load            | 9952 Btuh |
| Req. total capacity at 0.70 SHR | 0.9 ton   |

|                           | Heating | Cooling |
|---------------------------|---------|---------|
| Area (ft <sup>2</sup> )   | 1355    | 1355    |
| Volume (ft <sup>3</sup> ) | 10836   | 10836   |
| Air changes/hour          | 0.45    | 0.23    |
| Equip. AVF (cfm)          | 81      | 42      |

**Heating Equipment Summary**

|                  |                |
|------------------|----------------|
| Make             |                |
| Trade            |                |
| Model            |                |
| AHRI ref no.     |                |
| Efficiency       | 80 AFUE        |
| Heating input    | 0 Btuh         |
| Heating output   | 0 Btuh         |
| Temperature rise | 0 °F           |
| Actual air flow  | 333 cfm        |
| Air flow factor  | 0.039 cfm/Btuh |
| Static pressure  | 1.00 in H2O    |
| Space thermostat |                |

**Cooling Equipment Summary**

|                          |                |
|--------------------------|----------------|
| Make                     |                |
| Trade                    |                |
| Cond                     |                |
| Coil                     |                |
| AHRI ref no.             |                |
| Efficiency               | 0 SEER         |
| Sensible cooling         | 0 Btuh         |
| Latent cooling           | 0 Btuh         |
| Total cooling            | 0 Btuh         |
| Actual air flow          | 333 cfm        |
| Air flow factor          | 0.041 cfm/Btuh |
| Static pressure          | 0 in H2O       |
| Load sensible heat ratio | 0.78           |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

