

# Residential Equipment Selection Summary

EnergyGauge  
Karnes Blvd  
Kansas City, MO

Karnes  
Block 2, Heating System2, Cooling System2  
Attic Furnace

3/15/2024

## Conditions

### Outdoor (MO, KANSAS\_CITY\_DOWNTOWN\_AP)

Winter Dry Bulb: 9 F Summer Dry Bulb: 94 F  
Summer Wet Bulb: 78 F

### Room

Winter Dry Bulb: 70 F Summer Dry Bulb: 75 F  
RH: 55 %

### Air Entering Indoor Coil

Winter Dry Bulb: 69.7 F Summer Dry Bulb: 75 F  
Summer Wet Bulb: 62.5 F

## Design Loads in Btu/hr (Manual J or equivalent)

Heating: 51635 Sensible Cooling: 36340  
Latent Cooling: 2765

## Air Flow Estimate

Heating CFM: 1600 Cooling CFM: 1400

## Equipment Information - Heating

Type: Natural Gas Furnace Manufacturer:  
AHRI Number: 0 Outdoor Model:  
Nominal Capacity(Sea Level): 60000 Btu/hr Indoor Model:

## Equipment Information - Cooling

Type: Central Unit Manufacturer:  
Speed: Single-Speed Outdoor Model:  
AHRI Number: 0 Indoor Model:  
  
AHRI/Nominal Capacity: 42000 Btu/hr -----OEM Capacity at Design Conditions (Btu/hr)-----  
Total Latent Sensible Sens + excess Latent  
42000 3000 39000 39118

## Manual S Compliance - Cooling

Cooling-Only Equipment  
Total: Required: 90 – 115% Actual: 107 % Passes Manual S for Total PASS  
Latent: Required: 100 – 150% Actual: 108 % Manual S for Latent PASS  
Sensible: Required: 90% or more Actual: 108 % Manual S for Sensible PASS

## Compliance - Heating

Heating Only Equipment or paired with Cooling(Natural Gas Furnace - Manual S Table N2-4)  
Required:100–140% Actual: 116 % Manual S for Heating PASS

I hereby certify that  
the equipment selected is in  
accordance with ACCA Manual S.

Prepared by:\_\_\_\_\_

Date:\_\_\_\_\_