

Residential Equipment Selection Summary

EnergyGauge
Karnes Blvd
Kansas City, MO

Karnes
Block 1, Heating System1, Cooling System1
Basement 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: 80200 Sensible Cooling: 40609
Latent Cooling: 4152

Air Flow Estimate

Heating CFM: 2000 Cooling CFM: 1600

Equipment Information - Heating

Type: Natural Gas Furnace Manufacturer:
AHRI Number: 0 Outdoor Model:
Nominal Capacity(Sea Level): 100000 Btu/hr Indoor Model:

Equipment Information - Cooling

Type: Central Unit Manufacturer:
Speed: Single-Speed Outdoor Model:
AHRI Number: 0 Indoor Model:

AHRI/Nominal Capacity: 48000 Btu/hr -----OEM Capacity at Design Conditions (Btu/hr)-----
Total Latent Sensible Sens + excess Latent
48000 6000 42000 42924

Manual S Compliance - Cooling

Cooling-Only Equipment
Total: Required: 90 – 115% Actual: 107 % Passes Manual S for Total PASS
Latent: Required: 100 – 150% Actual: 145 % Manual S for Latent PASS
Sensible: Required: 90% or more Actual: 106 % 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: 125 % Manual S for Heating PASS

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

Prepared by:_____

Date:_____