

PIKES PEAK REGIONAL BUILDING DEPARTMENT

Residential HVAC Equipment Certificate

Provide this certificate with heat loss or (optional heat gain) calculations, for all new residential construction and additions: this will be part of the permanent record.

Address or Master Plan

CALCULATIONS

- () new structure () new addition () existing structure
() existing structure + new addition, requires separate calculations for each

1. Envelope heat loss _____ BTU/hr
2. Infiltration heat loss (.5 ach max) _____ BTU/hr
3. Envelope heat gain (option) _____ BTU/hr
4. Infiltration heat gain (option) _____ BTU/hr
5. Total heat loss add lines 1 & 2 _____ BTU/hr
6. Total heat gain add lines 3 & 4 (option) _____ BTU/hr
7. Type of heating appliance _____ new () existing ()
btu/hr input _____ / _____ location _____ area served _____
8. Type of heating appliance _____ new () existing ()
btu/hr input _____ / _____ location _____ area served _____
9. Type of cooling appliance _____ new () existing ()
btu/hr input _____ location _____ area served _____
10. Type of cooling appliance _____ new () existing ()
btu/hr input _____ location _____ area served _____

SUMMARY

- a. Input of heating appliance(s)* _____ BTU/hr
- b. Altitude derate (x 0.80) _____ BTU/hr
- c. Efficiency derate (output) _____ BTU/hr
- d. Electrical heating (1 watt = 3.413 btu/hr) _____ BTU/hr
- e. **Total Heating Output** _____ BTU/hr
- f. **Total Cooling** _____ BTU/hr

*1. If using high / low fired equipment, assign the sum of the low fires on this line.

*2. Total heat output must be greater than total heat loss, but not by more than 30%. This could change if cooling is used as the primary function. The equipment heating function must then be the smallest option available.

I certify that the equipment certificate is correct to the best of my knowledge based on plans provided and calculations performed for the address or master listed above.

Contractor/Homeowner signature _____ Date _____

Print full name of signer and company _____ Phone # _____