

# Pikes Peak **REGIONAL** Building Department

## RESIDENTIAL HVAC EQUIPMENT CERTIFICATE - WOODLAND PARK ONLY

Provide this certificate with heat loss, or optional heat gain, calculations for all new residential construction and additions. This form is part of the permanent record.

**ADDRESS OR MASTER PLAN #:** \_\_\_\_\_

### CALCULATIONS:

- Duct Design                       New Structure                       Existing Structure                       Performance Test  
 New Addition                       Existing Structure + New Addition (requires separate calculation for each)

1. Envelope heat loss \_\_\_\_\_ BTU/hr
2. Infiltration heat loss (.35 ach max) \_\_\_\_\_ BTU/hr
3. Envelope heat gain (optional) \_\_\_\_\_ BTU/hr
4. Infiltration heat gain (optional) \_\_\_\_\_ BTU/hr
5. Total heat loss (add lines 1 and 2)\*\* \_\_\_\_\_ BTU/hr
6. Total heat gain (add lines 3 and 4 - optional) \_\_\_\_\_ 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 .72) \_\_\_\_\_ 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

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

**Applicant Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Print name & company** \_\_\_\_\_ **Phone** \_\_\_\_\_

**IECC/IRC VENTILATION VERIFICATION (New Homes Only)**

- Indicate method of compliance with **Whole –house Mechanical Ventilation System** (M1507.3) (check all that apply)

Outside Air/Supply       Exhaust

- List **Fan Type/Description, CFM, and Location** of **ALL** exhaust fans, including kitchen hoods. Check box if fan is part of Whole-house Mechanical Ventilation System. (Example: Exhaust fan, 120 CFM, Master Bathroom [x])

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- Indicate **Ventilation Control** (check one)

Constant       Intermittent: \_\_\_\_\_ % per Table M1507.3.3(2)

- Specify location of **Whole House Ventilation Manual Override Control Switch**, if known, otherwise note as **To Be Determined**.

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