



Massachusetts Residential New Construction Program



HVAC Cooling System Sizing Contractor Verification Form

Program requirements:

1. All cooling equipment must be sized according to the latest editions of ACCA Manuals J and S, ASHRAE 2001 Handbook of Fundamentals, or an equivalent computation procedure. The maximum over sizing limit for air conditioners is 15%, 25% for heat pumps. Documentation must be provided to the HERS Rater.

The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72°F (22°C) for heating and a minimum of 74°F (24°C) for cooling.

The maximum over-sizing limit for the Program is 15% for air conditioners, and 25% for heat pumps. This should be calculated by multiplying the overall load (in Btu) by 1.15 for air conditioners, or 1.25 for heat pumps, then choosing the next available size.

Cooling systems with variable speed compressors are exempt from this requirement.

2. A Thermal Expansion Valve (TXV) or Electronic Expansion Valve (EXV) is required on all cooling systems.
3. **Performance Path:** Homes with HVAC ducted systems have a leakage rate at or below six (6) CFM to outdoors per 100 sq. ft. of conditioned floor area. Testing is required on ALL ducted systems, including systems with all the ductwork located within conditioned space.
4. Projects that apply for Cool Smart and Gas Networks CANNOT participate in the program.

Home Address: _____ City: _____ State: _____

Whole Home:

Design Total Heat Gain: _____ BTUh

Design Total Heat Loss: _____ BTUh (for heat pumps)

HVAC Company Name: _____ HVAC Contractor Name: _____

HVAC Contractor Signature: _____ Date: _____

The Block load calculations for the home listed above have been completed in compliance with the requirements listed on page 1 of this form.