

## **RESNET Formal Interpretation 2010-03**

Approved by the RESNET Board of Directors, 2/18/2011

### **Proponent:**

RESNET Standing Technical Committee

### **Applies to:**

*2006 Mortgage Industry National Home Energy Rating Systems Section 303.4.1*

### **Purpose:**

Provide guidance to Home Energy Raters for domestic hot water equipment that does not have an Energy Factor.

### **Interpretation:**

Raters are expected to obtain Energy Factors for domestic hot water equipment directly from manufacturer's literature or from AHRI directory for the equipment being used. In situations where a manufacturer provided or an AHRI published EF does not exist (e.g. commercial water heaters), the rater shall use the guidance presented in here to determine the effective EF of the water heater.

1. For conventional residential (oil, gas and electric) water heaters or heat pump, use default Energy Factor values described in RESNET Mortgage Industry National HERS Standards Chapter 3 Table 303.7.1.(3) for aged based efficiency or Table 303.7.1.(4) for non age-based Efficiency Factor values.
2. For commercial water heaters used in residential applications, one of the following approaches shall be followed to determine the Energy Factor for a particular piece of equipment:
  - a. Use the attached calculator - Commercial Hot Water EF Calculator.xls. This calculator is applicable for commercial hot water tanks used both in single family and multi-family dwellings. Depending on the stand-by loss in Btu/hr or %/hr, the appropriate tab of the calculator should be used.

Enter tank size, thermal efficiency and standby loss from GAMA directory
  - b. Use table 504.2 Minimum Performance of Water Heating Equipment in the 2009 International Energy Conservation Code to find the current minimum requirement for most types of water heater.