



**ENERGY STAR<sup>®</sup>**

## **Qualifying Criteria for Bottled Water Coolers**

**Version 1.1 – May 2004**

### **1) DEFINITIONS**

#### **A. Bottled Water Cooler**

A freestanding device that consumes energy and dispenses water from removable 15–19-litre (4–5 gallon) plastic bottles commonly positioned on top of the unit.

#### **B. Compartment-Type Bottled Water Cooler**

A bottled water cooler that, in addition to the primary function of cooling and dispensing potable water, includes a refrigerated compartment with or without provisions for making ice.

#### **C. Standby Energy Consumption**

The required energy to maintain cold and/or hot water at appropriate dispensing temperatures.

### **2) QUALIFYING PRODUCTS**

For the purposes of ENERGY STAR, bottled water coolers include the following:

#### **A. Cold Only Bottled Units**

These units dispense either cold water only, or both cold and room temperature water.

#### **B. Hot and Cold Bottled Units**

These units dispense both hot and cold water. Some units may have a third room-temperature tap. Units have an electric resistance heater and a refrigeration cycle.

#### **C. Cook and Cold Bottled Units**

These units dispense both cold and room-temperature water.

### **3) ENERGY EFFICIENCY SPECIFICATIONS FOR QUALIFYING PRODUCTS**

Only those products listed in Section 2 (above) that meet the criteria outlined in Table 1 may qualify as ENERGY STAR. The specifications are based on standby energy consumption.

**Table 1**  
**Energy Efficiency Criteria for ENERGY STAR Qualified Bottled Water Coolers**

<b>Product Category</b>	<b>Standby Energy Use Under Test Conditions (kWh/day)</b>
Cold-Only and Cook-and-Cold Bottled Units	$\leq 0.16$
Hot-and-Cold Bottled Units	$\leq 1.20$

#### **4) TEST CRITERIA**

Tests will focus on overall standby losses, and water will not be withdrawn during the testing procedure.

##### **A. Power Measurement**

Energy use shall be measured as the total true power (kilowatt hours) consumed in one 24-hour period.

##### **B. Starting Conditions**

Before starting the energy measurements, the unit should be at operating conditions, with water temperatures as defined in item F (below).

##### **C. Water Withdrawal**

No water may be withdrawn from the unit during the test.

##### **D. Timer Usage**

If the unit has an integral automatic timer, the timer can be set to turn off the unit for not more than 10 hours in the 24-hour test period. The unit must operate for the last two hours of the 24-hour test to ensure that it fully warms up or cools down after the shut-off period.

##### **E. Ambient Temperature**

Ambient air and water temperature must be 24°C,  $\pm 1^\circ\text{C}$  (75°F,  $\pm 2^\circ\text{F}$ ).

##### **F. Dispensed Water Temperatures**

Cold-water temperature shall not exceed 10°C (50°F) and hot water temperature shall be at least 74°C (165°F). These temperatures shall be measured before conducting the standby energy-use test described in this specification when the respective function, compressor or heating element turns on.

##### **G. Cooler Location**

The unit must be no more than 15 centimetres (6 inches) from a wall which is at least 2.1-metres (7-feet) high and which extends at least 0.6 metres (2 feet) from each side of the unit.

## **H. Airflow**

Airflow around the unit must be natural; no artificial means of increasing the airflow are permitted. Airflow created by components integral to the unit itself, such as internal fans, is permitted.

## **I. Compartment Temperature**

If the unit being tested is a compartment-type bottled water cooler, during the test there shall be no melting of ice, nor shall the average temperature exceed 8°C (46°F) in the refrigerated compartment.<sup>1</sup>

## **5) EFFECTIVE DATE**

The ENERGY STAR Bottled Water Cooler (Version 1.1) specification is effective immediately.

## **6) FUTURE SPECIFICATION REVISIONS**

ENERGY STAR reserves the right to change the specification should technological and/or market changes affect its usefulness to consumers, industry or the environment. In keeping with current policy, revisions to the specification are arrived at through industry discussions.

---

<sup>1</sup>ARI Standard 1010-2002, “Self-Contained, Mechanically Refrigerated Drinking-Water Coolers”