

ENERGY STAR® for Refrigerated Beverage Vending Machines
DRAFT Refurbished Machine Program
October 16, 2003

While it is EPA's intention to move forward with a new refrigerated beverage vending machine specification, it is our hope that a Version 1.1 amendment will be developed within the next year that addresses refurbished machines. This document presents EPA's preliminary thoughts regarding a potential ENERGY STAR program for refurbished machines. EPA intends to work with equipment manufacturers, beverage companies, bottling companies, and other industry stakeholders, such as UL and NAMA, to determine the best way to implement and manage a retrofit program. As such, all stakeholders are encouraged to provide feedback on this Draft document to Rebecca Miller, ICF Consulting, at rmiller@icfconsulting.com by November 21, 2003.

Facility Requirements

- The refurbishment center (RC) must be UL certified to perform retrofits.
- The RC must have testing chambers capable of performing energy consumption test under the ASHRAE Standard 32.1-1997R.
- The RC will be required to become an ENERGY STAR partner. EPA will work with stakeholders to determine what commitments will be required of both the RC and EPA.
- The RC must be able to UL certify each model that is retrofitted to meet ENERGY STAR requirements. **Note:** to date, this requirement will restrict ENERGY STAR qualified retrofits to Original Equipment Manufacturers (OEMs) who are refurbishing their own product models.

Vending Machine Qualification and Certification Procedures

- The RC/OEM must first decide which model(s) it wishes to refurbish as ENERGY STAR, identify which components will be used to meet the performance specification, and pursue UL certification for each specific model/component combination.
- In order to qualify, each refrigerated beverage vending machine model must undergo lighting, refrigeration, or other change-outs that will bring the total machine energy consumption at or below the requirements of the ENERGY STAR specification. These change-outs may be in addition to the typical maintenance performed by the RC.
- The RC must test a representative machine for each model, and change-out combination, to ASHRAE Standard 32.1-1997R and provide the results to EPA for review. Prior to labeling, the RC provides this list of UL certified and ENERGY STAR qualified refurbished machine models for posting on the ENERGY STAR Web site.
- The RC must perform quality assurance (QA) testing on ENERGY STAR qualified refurbished machine models randomly pulled from the retrofit production line. The parameters for the QA process (e.g., sample size and frequency) will need to be determined.
- Each vending machine gets assigned a Refurbished Model Number to be recorded by RC personnel along with the original OEM model number.

Labeling Procedures

- Refrigerated beverage vending machine models that meet ENERGY STAR requirements must come with the ENERGY STAR certification mark on the same label that contains the Refurbished Model Number.

Other Requirements

- Each refurbished ENERGY STAR qualified refrigerated beverage vending machine must come with a 90-day warranty supplied by the RC.
- The RC must retain refurbishment records for a minimum of 7 years.