



ENERGY STAR® for Rebuilt Refrigerated Beverage Vending Machines

Q. What is the ENERGY STAR Rebuilt Beverage Vending Machine Program?

A. The program was developed for refrigerated beverage vending machines that are already in the marketplace and will be rebuilt to achieve higher energy efficiency performance levels by the machine owners (typically Coke and Pepsi). It is part of the larger ENERGY STAR program for Refrigerated Beverage Vending Machines under which new machine models have been eligible to qualify as ENERGY STAR (since 2004).

Q. What does it mean for existing machines?

A. The rebuilt program provides an opportunity for older, existing machines to qualify and earn the ENERGY STAR label. This means that in addition to purchasing and installing new ENERGY STAR qualified machines, customers will now have the option of upgrading existing machines.

Q. What are the ENERGY STAR rebuilt machine requirements?

A. The complete technical specification is available on the ENERGY STAR Web site at www.energystar.gov/products. Essentially they require a minimum energy consumption (kWh/day) based on machine capacity and as tested using the American Society of Heating, Refrigerated and Air-Conditioning Engineers, Inc. (ASHRAE) Standard 32.1-2004 test procedure. Rebuilt vending machines are required to meet the same energy efficiency performance levels as newly manufactured machines looking to earn the ENERGY STAR.

Q. Who does the testing?

A. This is a "self test" program. This can be done by the original equipment manufacturer (OEM), the current owner or a third party, contracted to perform the testing. The testing must be in accordance with current ASHRAE Standard 32.1-2004.

Q. What other requirements?

A. The OEM, refurbishment center (RC), or a qualified component supplier (QCS) that performs the rebuilding and/or conducts the required testing for qualification will be required to become an ENERGY STAR Partner.

Q. How can refurbished machines meet the ENERGY STAR performance levels?

A. There are multiple ways to reach the desired/required level of energy consumption. Installation of new components such as compressors, fans, ballasts and lighting, the use of other energy saving devices and technologies (such as USA Technologies' VM2iQ™ device) or a combination of components and devices could produce the desired reduction in energy consumption required for ENERGY STAR qualification.

Q. Can any components be used?

A. Only those machine-component combinations that have been approved for ENERGY STAR qualification and listed on the ENERGY STAR Qualified Product List can bear the ENERGY STAR label. Qualified Product Lists for both new and rebuilt ENERGY STAR machines can be found at: www.energystar.gov/products.

Q. Is the VM2iQ an ENERGY STAR qualified or recognized product?

A. No, only the rebuilt machine that is tested to ASHRAE 32.1 standards is eligible for the ENERGY STAR qualification. Energy saving components and devices, such as the VM2iQ, provide machine owners with several options and combinations that may allow an existing machine to be upgraded to ENERGY STAR performance levels.

Q. How are the machines identified as ENERGY STAR?

A. Once the machine-component combination is approved for ENERGY STAR qualification, the Partner may begin placing the ENERGY STAR label on subsequent identical models rebuilt with the exact same components. Each ENERGY STAR label includes the date of rebuilding and a new rebuilt machine model number, which matches that which is listed on the ENERGY STAR Qualified Product List. The installer completes certain paperwork to keep track of what machines have been converted.

Q. Does one kit “service” multiple machine models?

A. While one “kit” may be able to be used on multiple machine models to qualify as ENERGY STAR, each discrete combination must be tested and submitted to ENERGY STAR for approval. Furthermore, each machine model and “kit” combination must come with a unique, **new** model number provided for the modified machine.

Q. Can machines have multiple “kits”?

A. Yes, a particular machine model may have several different “kits” that enable that model to meet ENERGY STAR requirements. However, each machine-component combination must have a unique identification number and must be tested and submitted separately to ENERGY STAR for approval.

Q. Can “kits” be used in combination? For example, lighting and VM2iQ type devices?

A. Yes, multiple components can be used to reach ENERGY STAR performance levels. The ENERGY STAR Partner must submit to ENERGY STAR information on all components included in the energy saving “kit” for each particular machine-component combination upgrade.

Q. Who establishes the new model number for a machine with a particular “kit” installed?

A. The machine owner, working with the “kit” supplier, establishes the “new” model number. Example: a machine originally designated - XX 440- might now become XX 440 /VM2iQ - if the USA Technologies kit is used to qualify the machine-component combination as ENERGY STAR.

Q. How much will the typical conversion cost?

A. No prices have been established for complete kits; however, individual components that will make up the “typical” kit range from under \$100.00 to over \$400.00 - if a refrigeration system is replaced. Most machines will qualify with a combination of components totaling under \$250.00 (est. at time of writing).

Q. How will ENERGY STAR track this information?

A. The ENERGY STAR Partner will be required to test and submit to ENERGY STAR all machine-component combinations that it wishes to qualify as ENERGY STAR. All ENERGY STAR qualified combinations will be listed on the ENERGY STAR Qualified Product List. Once a year, ENERGY STAR Partners are required to report the number of machines upgraded to the new ENERGY STAR levels.

Q. Who can I contact for more information?

A. For questions regarding the ENERGY STAR Refrigerated Beverage New and Rebuilt Vending Machine specification, please contact Rachel Schmeltz, EPA Program Manager for Vending Machines, at schmeltz.rachel@epa.gov or (202) 343-9124; the machine manufacturer; USA Technologies; or the machine owner, if you are not the owner. For questions about the EPA ENERGY STAR Partnership, please send your request to vendingmachines@icfi.com.