

# ENERGY STAR New Refrigerated Beverage Vending Machine Product List

## List Posted on February 20, 2013

Below are currently qualified ENERGY STAR models available for sale in the U.S.

\* Brand is not available for products qualified prior to January 1, 2011.

\*\* Date Available on Market is not available for some products qualified prior to January 1, 2011.

\*\*\* Date Qualified is not available for products qualified prior to January 1, 2011.

ENERGY STAR Partner	Brand*	Model Name	Model Number	Additional Model Information	Machine Use Designation	Door Type	Vendible Capacity	Energy Consumption (kWh/day)	Date Available On Market**	Date Qualified***
Automated Merchandising Systems, Inc.	Automated Merchandising Systems	AMS 35 VCBE	AMS 35 VCBE	AMS 35 VCFE,AMS 35 VCFE,	Indoor Only	Glass Front	218	4.4	6/30/2006	7/2/2012
Automated Merchandising Systems, Inc.	Automated Merchandising Systems	AMS 39 VCBE	AMS 39 VCBE	AMS 39 VCFE,AMS 39 VCFE,	Indoor Only	Glass Front	288	4.4	6/30/2006	7/2/2012
Automated Merchandising Systems, Inc.	AMS	AMS LB5, AMS LC5	AMS LB5, AMS LC5		Indoor Only	Glass Front	216	3.2	7/15/2011	6/25/2012
Automated Merchandising Systems, Inc.	AMS	AMS LB9, LC9	AMS LB9, LC9		Indoor Only	Glass Front	446	4.2	7/15/2011	6/25/2012
Dixie-Narco		DN276E	DN276E		Indoor/ Outdoor	Closed Front	315.0	4.8	11/10/2009	
Dixie-Narco		Narrow BevMax4	DN3800-4		Indoor Only	Glass Front	315.0	3.8	9/8/2009	
Dixie-Narco		E-Series	DN501EV		Indoor/ Outdoor	Closed Front	471.0	4.9	6/1/2004	
Dixie-Narco		P_Series	DN504P		Indoor/ Outdoor	Closed Front	504.0	5.3	7/1/2007	
Dixie-Narco		Beverage Max	DN5800		Indoor Only	Glass Front	405.0	5.4	7/1/2007	
Dixie-Narco		BevMax3	DN5800-4		Indoor Only	Glass Front	405.0	4.0	1/12/2009	
Dixie-Narco		P_Series	DN720P		Indoor/ Outdoor	Closed Front	720.0	6.2	7/1/2007	
Dixie-Narco	Dixie Narco	DNCB 448	DNCB 448		Indoor/ Outdoor	Closed Front	448	5.3	1/1/2011	12/16/2011
Dixie-Narco	Dixie Narco	DNCB 640	DNCB 640		Indoor/ Outdoor	Closed Front	640	5.3	1/1/2011	12/16/2011
Royal Vendors, Inc.	Royal Vendors	GIII	RVCC2-550*		Indoor/ Outdoor	Closed Front	550	4.5	6/13/2012	6/8/2012

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Royal Vendors, Inc.	Royal Vendors	GIII	RVCC2-660*		Indoor/Outdoor	Closed Front	660	4.7	5/1/2012	6/8/2012
Royal Vendors, Inc.		GIII	RVCC*550-*		Indoor/Outdoor	Closed Front	550.0	4.7	1/1/2010	
Royal Vendors, Inc.		Twenty plus-CC	RVCC* 654-*		Indoor/Outdoor	Closed Front	654.0	6.3	7/1/2007	
Royal Vendors, Inc.		GIII	RVCC*660-*		Indoor/Outdoor	Closed Front	660.0	5.2	1/1/2010	
Royal Vendors, Inc.		Twenty plus-CC	RVCC* 780-*		Indoor/Outdoor	Closed Front	780.0	6.5	7/1/2007	
Royal Vendors, Inc.		GIII	RVCC*804-*		Indoor/Outdoor	Closed Front	804.0	5.5	1/1/2010	
Royal Vendors, Inc.		GIII	RVCCO 660-8		Indoor/Outdoor	Closed Front	660.0	5.7	2/9/2010	
Royal Vendors, Inc.		Merlin 4 Cold Drink	RVCDE 542-8		Indoor/Outdoor	Closed Front	542.0	5.8	7/1/2007	
Royal Vendors, Inc.		Merlin 4- Cold Drink	RVCDE 650-12		Indoor/Outdoor	Closed Front	650.0	5.9	7/1/2007	
Royal Vendors, Inc.		Twenty plus-Cold Drink	RVCDE 654-10		Indoor/Outdoor	Closed Front	654.0	6.3	7/1/2007	
Royal Vendors, Inc.		Merlin 4 Cold Drink	RVCDE 768-10		Indoor/Outdoor	Closed Front	768.0	5.1	7/1/2007	
Royal Vendors, Inc.		Twenty plus-Cold Drink	RVCDE 780-10		Indoor/Outdoor	Closed Front	780.0	6.5	7/1/2007	
Royal Vendors, Inc.		RVCIV-804	RVCIV-804		Indoor Only	Closed Front	804.0	6.9	11/1/2010	
Royal Vendors, Inc.	Royal Vendors	GIII	RVCV2-550*		Indoor/Outdoor	Closed Front	550	4.5	6/13/2012	6/8/2012
Royal Vendors, Inc.	Royal Vendors	GIII	RVCV2-660*		Indoor/Outdoor	Closed Front	660	4.7	5/1/2012	6/8/2012
Royal Vendors, Inc.	Royal Vendors	GIII	RVCV2-804*		Indoor/Outdoor	Closed Front	804	4.9	5/1/2012	6/8/2012
Royal Vendors, Inc.	Royal Vendors	RVCV*550-*	RVCV*550-*		Indoor/Outdoor	Closed Front	550	4.7	9/9/2011	9/9/2011
Royal Vendors, Inc.	Royal Vendors	RVCV*660-*	RVCV*660-*		Indoor/Outdoor	Closed Front	660	5.2	9/9/2011	9/9/2011

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Royal Vendors, Inc.	Royal Vendors	RVCV*804-*	RVCV*804-*		Indoor/Outdoor	Closed Front	804	5.5	9/9/2011	9/9/2011
Royal Vendors, Inc.		Merlin 4 Dr Pepper	RVDPE 542-8		Indoor/Outdoor	Closed Front	542.0	5.8	7/1/2007	
Royal Vendors, Inc.		Merlin 4	RVDPE 650-12		Indoor/Outdoor	Closed Front	650.0	5.9	7/1/2007	
Royal Vendors, Inc.		Twenty plus-Dr Pepper	RVDPE 654-10		Indoor/Outdoor	Closed Front	654.0	6.3	7/1/2007	
Royal Vendors, Inc.		Merlin 4 Dr Pepper	RVDPE 768-10		Indoor/Outdoor	Closed Front	768.0	5.1	7/1/2007	
Royal Vendors, Inc.		Twenty plus-Dr Pepper	RVDPE 780-10		Indoor/Outdoor	Closed Front	780.0	6.5	7/1/2007	
Royal Vendors, Inc.		Merlin 4 Display Vender	RVDVE 650-10		Indoor/Outdoor	Closed Front	650.0	4.2	7/1/2007	
Royal Vendors, Inc.		Merlin 4	RVHV 650-12		Indoor/Outdoor	Closed Front	650.0	5.9	7/1/2007	
Royal Vendors, Inc.		Twenty plus-HVV	RVHV 654-12		Indoor/Outdoor	Closed Front	654.0	6.3	7/1/2007	
Royal Vendors, Inc.		Merlin HVV	RVHV 768-12		Indoor/Outdoor	Closed Front	768.0	5.1	7/1/2007	
Royal Vendors, Inc.		Twenty plus-HVV	RVHV 780-12		Indoor/Outdoor	Closed Front	780.0	6.5	7/1/2007	
Royal Vendors, Inc.		Merlin 4 Magnum	RVMCE 542-8		Indoor/Outdoor	Closed Front	542.0	5.8	7/1/2007	
Royal Vendors, Inc.		Merlin 4 Magnum	RVMCE 650-12		Indoor/Outdoor	Closed Front	650.0	5.9	7/1/2007	
Royal Vendors, Inc.		Twenty plus Magnum	RVMCE 654-10		Indoor/Outdoor	Closed Front	654.0	6.3	7/1/2007	
Royal Vendors, Inc.		Merlin Magnum	RVMCE 768-12		Indoor/Outdoor	Closed Front	768.0	5.1	7/1/2007	
Royal Vendors, Inc.		Twenty plus-Magnum	RVMCE 780-12		Indoor/Outdoor	Closed Front	780.0	6.5	7/1/2007	
Royal Vendors, Inc.		Royal Vision Vender	RVRVV 500-64		Indoor Only	Glass Front	512.0	5.6	7/1/2007	
Sanden Vendo America Inc		Chameleon/NG	521		Indoor/Outdoor	Closed Front	196.0	4.0	2/23/2010	

ENERGY STAR Partner	Brand*	Model Name	Model Number	Additional Model Information	Machine Use Designation	Door Type	Vendible Capacity	Energy Consumption (kWh/day)	Date Available On Market**	Date Qualified***
Sanden Vendo America Inc		Coke LMV	621		Indoor/Outdoor	Closed Front	544.0	5.9	7/1/2007	
Sanden Vendo America Inc		Pepsi HVV	621		Indoor/Outdoor	Closed Front	544.0	5.9	7/1/2007	
Sanden Vendo America Inc		Trade	621		Indoor/Outdoor	Closed Front	544.0	6.0	6/1/2003	
Sanden Vendo America Inc		Trade	621		Indoor/Outdoor	Live Display	544.0	5.7	12/1/2003	
Sanden Vendo America Inc		Chameleon/NG	721		Indoor/Outdoor	Closed Front	680.0	6.4	2/1/2010	
Sanden Vendo America Inc		Chameleon/NG-CO2	721		Indoor/Outdoor	Closed Front	680.0	5.6	2/23/2010	
Sanden Vendo America Inc		Coke LMV	721		Indoor/Outdoor	Closed Front	680.0	6.3	12/1/2003	
Sanden Vendo America Inc		Pepsi HVV	721		Indoor/Outdoor	Closed Front	680.0	6.5	7/1/2007	
Sanden Vendo America Inc		Pepsi HVV_CO2	721		Indoor/Outdoor	Closed Front	680.0	5.6	12/1/2009	
Sanden Vendo America Inc		Trade	721		Indoor/Outdoor	Closed Front	680.0	6.0	6/1/2003	
Sanden Vendo America Inc		Trade	721		Indoor/Outdoor	Live Display	680.0	6.0	6/1/2003	
Sanden Vendo America Inc		Chameleon/NG	821		Indoor/Outdoor	Closed Front	800.0	6.9	2/23/2010	
Sanden Vendo America Inc		Coke LMV	821		Indoor/Outdoor	Closed Front	800.0	6.9	7/1/2007	
Sanden Vendo America Inc		Pepsi HVV	821		Indoor/Outdoor	Closed Front	800.0	6.9	7/1/2007	
Sanden Vendo America Inc		Vue30	V30		Indoor Only	Glass Front	378.0	5.3	6/1/2007	
Sanden Vendo America Inc		Vue40	V40		Indoor Only	Glass Front	360.0	5.3	2/1/2008	
Sanden Vendo America Inc		Vue40	V40		Indoor Only	Glass Front	504.0	5.8	6/1/2007	
Seaga Manufacturing Inc.		SP 735R Can & Bottle Vendor	SP 735R		Indoor Only	Glass Front	343.0	5.1	1/31/2007	

ENERGY STAR Partner	Brand*	Model Name	Model Number	Additional Model Information	Machine Use Designation	Door Type	Vendible Capacity	Energy Consumption (kWh/day)	Date Available On Market**	Date Qualified***
The Wittern Group, Inc.		5WDZG2	3517		Indoor Only	Glass Front	480.0	5.7	6/27/2008	
The Wittern Group, Inc.		3WDZG2	3520		Indoor Only	Glass Front	308.0	4.0	7/7/2008	
The Wittern Group, Inc.		3WDZG2	3521		Indoor Only	Glass Front	308.0	3.8	6/26/2008	
The Wittern Group, Inc.		CB500 High Efficiency	3539		Indoor/Outdoor	Live Display	500.0	5.5	2/1/2008	
The Wittern Group, Inc.		CB700 High Efficiency	3540		Indoor Only	Live Display	700.0	4.5	8/3/2008	
The Wittern Group, Inc.		5WDZG2	3545		Indoor Only	Glass Front	480.0	5.8	6/26/2008	

## Definitions for Vending Machine Product Listing Column Headers

Column Header	Definition
<b>ENERGY STAR Partner</b>	An organization that signed a Partnership Agreement with EPA to manufacture or private label ENERGY STAR qualified products.
<b>Brand</b>	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
<b>Model Name</b>	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
<b>Model Number</b>	A distinguishing identifier, usually alphanumeric, assigned to a product by the manufacturer or private labeler.
<b>Additional Model Information</b>	This column includes for the qualified model or family, family members, additional model names, model numbers and other identifying information associated with a product or family/series of products for sales and marketing purposes. Other identifying information includes, but is not limited to, SKUs, UPC codes, retail numbers, and/or descriptions of models included/not included in the reported Model Family.
<b>Machine Use Designation</b>	Indoor/outdoor machines may be suitable for outdoor use or suitable for protected locations. Indoor machines are suitable for indoor use only (per UL Standard 541).
<b>Door Type</b>	Vending machines eligible for ENERGY STAR may have a closed front door, glass front door, live display door, or "other" door type.
<b>Vendible Capacity</b>	The maximum quantity of standard product that can be dispensed from one full loading of the vending machine without further reload operations when used as recommended by the manufacturer (per ANSI/ASHRAE 32.1).
<b>Energy Consumption (kWh/day)</b>	The measured Daily Energy Consumption value in kWh per day.
<b>Date Available on Market</b>	The date that the model is available for purchase.
<b>Date Qualified</b>	The date on which the product was confirmed to meet the ENERGY STAR specification.



## Key Efficiency Criteria

Qualified models meet all ENERGY STAR requirements as listed in the Version 2.1 Tier II ENERGY STAR Program Requirements for Vending Machines that are effective as of July 1, 2007, or the Version 3.0 ENERGY STAR Program Requirements for Vending Machines that are effective as of March 1, 2013.

### Version 2.1 Tier II Requirements New and Rebuilt Machines (effective July 1, 2007)

Maximum daily energy consumption:

$$Y = 0.45 [8.66 + (0.009 \times C)]$$

Where: Y = 24 hr energy consumption (kWh/day) after the machine has stabilized  
C = vendible capacity

Note: The energy consumption equation is based on CAN/CSA C804-96 Energy Performance of Vending Machines (for Machine Type A).

### Version 3.0 Requirements New and Rebuilt Machines (effective March 1, 2013)

Maximum daily energy consumption:

Class A: New and Rebuilt Machines:  $0.0523V + 2.432$

Class B: New and Rebuilt Machines:  $0.0657V + 2.844$

Where V = the refrigerated volume (cu ft) of the refrigerated bottled or canned beverage vending machine, as measured by the American National Standards Institute (ANSI)/ Association of Home Appliance Manufacturers (AHAM) HRF-1-2004, "Energy, Performance, and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers." Measurement of refrigerated volume must be in accordance with the methodology specified in Section 5.2, Total Refrigerated Volume (excluding subsections 5.2.2.2 through 5.2.2.4), of ANSI/AHAM HRF-1-2004.