

APPLICATION and PERFORMANCE SPECIFICATION

Description: High frequency electronic ballast for (1) F32T8 and others as indicated below.
Also equivalent U-shaped lamps.

- Line Voltage: 108vac - 305vac, 50/60Hz
- Parallel Lamp Operation
- *60 Hz data
- Instant Start
- Active Power Factor Correction

Lamp		Volts	Input Watts	Nominal Line Amps	Power Factor	Ballast Factor	Ballast Efficacy Factor	Harmonic Total	Crest Factor
Type	#								
F32T8	1	120	25	0.22	> .98	.77	3.08	< 10%	< 1.7
F32T8	1	277	25	0.11	> .95	.77	3.08	< 10%	< 1.7
F32T8ES	1	120	23	0.20	> .98	.77	3.35	< 10%	< 1.7
F32T8ES	1	277	23	0.10	> .95	.77	3.35	< 10%	< 1.7
F28T8	1	120	21	0.20	> .98	.77	3.67	< 10%	< 1.7
F28T8	1	277	21	0.10	> .95	.77	3.67	< 10%	< 1.7
F25T8	1	120	19	0.18	> .98	.78	4.11	< 10%	< 1.7
F25T8	1	277	19	0.09	> .90	.78	4.11	< 10%	< 1.7
F17T8	1	120	14	0.12	> .98	.78	5.57	< 15%	< 1.7
F17T8	1	277	14	0.06	> .90	.78	5.57	< 15%	< 1.7
F40T8	1	120	32	0.25	> .98	.76	2.38	< 10%	< 1.7
F40T8	1	277	32	0.13	> .95	.76	2.38	< 10%	< 1.7

Application and Performance Specification Information Subject to Change without Notification.

Performance:

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits

Safety:

- No PCB's
- UL listed (Class P, Type 1 Outdoor, Type HL)
- CSA Certified

Application:

- Minimum Starting Temperature: 0° F, -18° C
For ES & 28W Lamps: 60° F, 16° C
- Maximum Ambient Temperature: 105° F, 40° C
- Sound Rated: A
- Remote Mounting: 20 ft. max. lead length, 18 AWG

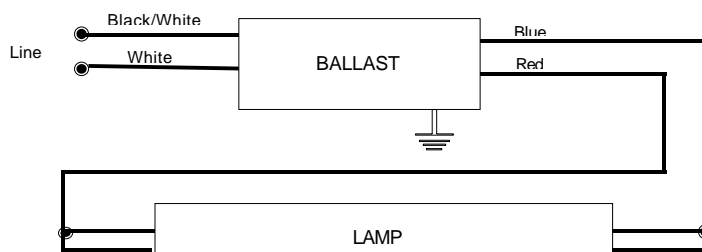
Physical Parameters

- Length: 9.50"
- Width: 1.70"
- Height: 1.18"
- Weight: 1.70 lbs
- Lead Length: Black, White 25" (+/-1")
- Red 48" (+/-1")
- Blue 31" (+/-1")

Warranty:

Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 5 years from date of manufacture when properly installed and under normal conditions of use. Call **1-800-BALLASTx800** for technical assistance.

Manufactured in North America



Ballast Must be Grounded

APPLICATION and PERFORMANCE SPECIFICATION

Description: High frequency electronic ballast for (1 or 2) F32T8, (1 or 2) F32T8ES, (1 or 2) F28T8 (2) F25T8, (2) F17T8 and (1) F40T8 lamps. Also equivalent U-shaped lamps.

- Line Voltage: 108vac - 305vac, 50/60Hz
- Parallel Lamp Operation
*60 Hz data

- Instant Start
- Active Power Factor Correction

Lamp		Volts	Input Watts	Nominal Line Amps	Power Factor	Ballast Factor	Ballast Efficacy Factor	Harmonic Total	Crest Factor
Type	#								
F32T8	2	120	48	0.40	>.95	0.77	1.60	< 10%	< 1.7
F32T8	2	277	48	0.17	>.95	0.77	1.60	< 10%	< 1.7
F32T8ES	2	120	46	0.38	>.95	0.77	1.67	< 10%	< 1.7
F32T8ES	2	277	46	0.17	>.95	0.77	1.67	< 10%	< 1.7
F32T8	1	120	30	0.24	>.95	0.95	3.17	< 10%	< 1.7
F32T8	1	277	30	0.11	>.95	0.95	3.17	< 10%	< 1.7
F32T8ES	1	120	28	0.23	>.95	0.92	3.29	< 10%	< 1.7
F32T8ES	1	277	28	0.11	>.95	0.92	3.29	< 10%	< 1.7
F28T8	2	120	43	0.36	>.95	0.77	1.79	<10%	<1.7
F28T8	2	277	43	0.15	>.95	0.77	1.79	<10%	<1.7
F28T8	1	120	26	0.22	>.95	0.95	3.65	<10%	<1.7
F28T8	1	277	27	0.10	>.95	0.95	3.52	<10%	<1.7
F25T8	2	120	36	0.30	>.95	0.79	2.19	< 10%	< 1.7
F25T8	2	277	37	0.14	>.95	0.80	2.18	< 10%	< 1.7
F17T8	2	120	25	0.21	>.95	0.80	3.20	< 10%	< 1.7
F17T8	2	277	26	0.10	>.95	0.80	3.08	< 10%	< 1.7

Application and Performance Specification Information Subject to Change without Notification.

Performance:

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits
- Meets CSA Standard 654 for Ballast Efficiency

Safety:

- No PCB's
- UL listed (Class P, Type 1 Outdoor, Type HL)
- CSA Certified

Application:

- Minimum Starting Temperature: 0° F, -18° C
For ES & 28W Lamps: 60° F, 16° C
- Maximum Ambient Temperature: 105° F, 40° C
- Sound Rated: A
- Remote Mounting: 20 ft. max. lead length, 18 AWG

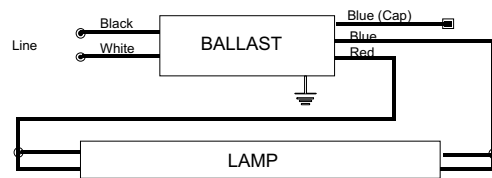
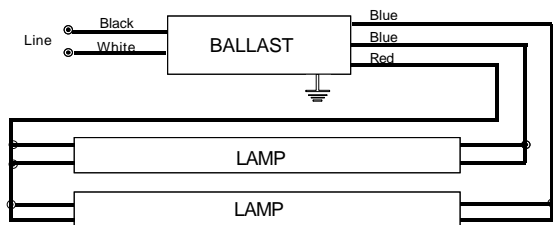
Physical Parameters

- Length: 9.50"
- Width: 1.70"
- Height: 1.18"
- Weight: 1.70 lbs
- Lead Length: Black, White 25" (+/-1")
Red 48" (+/-1")
Blue 31" (+/-1")

Warranty:

Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 5 years from date of manufacture when properly installed and under normal conditions of use. Call **1-800-BALLASTx800** for technical assistance.

Manufactured in North America



For one lamp application, individually cap blue leads, insulate to 600 volts

Ballast Must be Grounded

APPLICATION and PERFORMANCE SPECIFICATION

Description: High frequency electronic ballast for (3 or 2) F32T8, (3 or 2) F32T8ES, (3 or 2) F28T8, (2) F40T8, (3) F25T8, and (3) F17T8. Also equivalent U-shaped lamps.

- Line Voltage: 108vac - 305vac, 50/60Hz
- Parallel Lamp Operation
- Instant Start
- Active Power Factor Correction

*60 Hz data

Lamp		Volts	Input Watts	Nominal Line Amps	Power Factor	Ballast Factor	Ballast Efficacy Factor	Harmonic Total	Crest Factor
Type	#								
F32T8	3	120	74	0.61	>99%	.77	1.04	< 10%	< 1.7
F32T8	3	277	73	0.26	>98%	.77	1.05	< 10%	< 1.7
F32T8ES	3	120	70	0.58	>99%	.77	1.10	< 10%	< 1.7
F32T8ES	3	277	69	0.25	>98%	.77	1.12	< 10%	< 1.7
F28T8	3	120	66	0.53	>99%	.77	1.17	< 10%	< 1.7
F28T8	3	277	65	0.23	>97%	.77	1.18	< 10%	< 1.7
F32T8	2	120	57	0.48	>99%	.89	1.56	< 10%	< 1.7
F32T8	2	277	56	0.21	>97%	.89	1.59	< 10%	< 1.7
F32T8ES	2	120	54	0.46	>99%	.89	1.65	< 10%	< 1.7
F32T8ES	2	277	53	0.2	>98%	.89	1.68	< 10%	< 1.7
F28T8	2	120	49	0.41	>99%	.89	1.82	< 10%	< 1.7
F28T8	2	277	48	0.18	>95%	.89	1.85	< 10%	< 1.7
F40T8	2	120	68	0.57	>99%	.89	1.31	< 10%	< 1.7
F40T8	2	277	66	0.25	>98%	.89	1.35	< 10%	< 1.7
F25T8	3	120	59	0.49	>99%	.80	1.36	< 10%	< 1.7
F25T8	3	277	58	0.22	>97%	.80	1.38	< 10%	< 1.7
F17T8	3	120	42	0.35	>99%	.82	1.95	< 10%	< 1.7
F17T8	3	277	41	0.15	>95%	.82	2.00	< 10%	< 1.7

Application and Performance Specification Information Subject to Change without Notification.

Performance:

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits

Safety:

- No PCB's
- UL listed (Class P, Type 1 Outdoor, Type HL)
- CSA Certified

Application:

- Minimum Starting Temperature: 0° F, -18° C
For ES & 28W Lamps: 60° F, 16° C
- Maximum Ambient Temperature: 105° F, 40° C
- Sound Rated: A
- Remote Mounting: 20 ft. max. lead length, 18 AWG

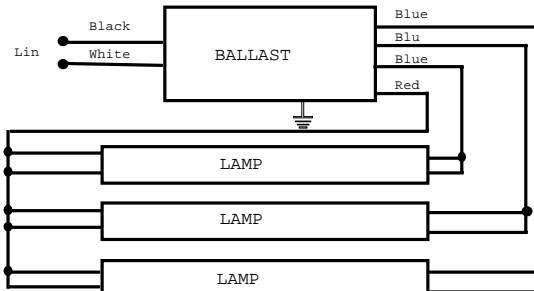
Physical Parameters

- Length: 9.50"
- Width: 1.70"
- Height: 1.18"
- Weight: 1.7 lbs.
- Lead Length: White, Black 25" (± 1")
Red 48" (± 1")
Blue 31" (± 1")

Warranty:

Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 5 years from date of manufacture when properly installed and under normal conditions of use. Call **1-800-BALLASTx800** for technical assistance.

Manufactured in North America



Note: For two lamp application, cap one blue lead, insulate

Ballast Must be Grounded

APPLICATION and PERFORMANCE SPECIFICATION

Description: High frequency electronic ballast for (4 or 3) F32T8, (4 or 3) F32T8ES, (4 or 3) F28T8, (3) F40T8, (4) F25T8, and (4) F17T8. Also equivalent U-shaped lamps.

- Line Voltage: 108vac - 305vac, 50/60Hz
- Instant Start
- Parallel Lamp Operation

Lamp		Volts	Input Watts	Nominal Line Amps	Power Factor	Ballast Factor	Ballast Efficacy Factor	Harmonic Total	Crest Factor
Type	#								
F32T8	4	120	97	0.80	> .99	.77	0.79	< 10%	< 1.7
F32T8	4	277	96	0.34	> .98	.77	0.80	< 10%	< 1.7
F32T8ES	4	120	91	0.75	> .99	.77	0.85	< 10%	< 1.7
F32T8ES	4	277	90	0.32	> .98	.77	0.86	< 10%	< 1.7
F28T8	4	120	85	0.70	> .99	.77	0.91	< 10%	< 1.7
F28T8	4	277	84	0.31	> .98	.77	0.92	< 10%	< 1.7
F32T8	3	120	80	0.67	> .99	.86	1.08	< 10%	< 1.7
F32T8	3	277	78	0.29	> .98	.86	1.10	< 10%	< 1.7
F32T8ES	3	120	75	0.62	> .99	.86	1.15	< 10%	< 1.7
F32T8ES	3	277	73	0.27	> .98	.86	1.18	< 10%	< 1.7
F28T8	3	120	69	0.57	> .99	.86	1.25	< 10%	< 1.7
F28T8	3	277	68	0.26	> .95	.86	1.26	< 10%	< 1.7
F40T8	3	120	97	0.81	> .99	.86	0.89	< 10%	< 1.7
F40T8	3	277	94	0.35	> .98	.86	0.91	< 10%	< 1.7
F25T8	4	120	78	0.65	> .98	.78	1.00	< 10%	< 1.7
F25T8	4	277	76	0.28	> .98	.78	1.03	< 10%	< 1.7
F17T8	4	120	53	0.44	> .98	.79	1.49	< 10%	< 1.7
F17T8	4	277	52	0.20	> .95	.79	1.52	< 10%	< 1.7

Application and Performance Specification Information Subject to Change without Notification.

Performance:

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits

Safety:

- No PCB's
- UL listed (Class P, Type 1 Outdoor, Type HL)
- CSA Certified

Application:

- Minimum Starting Temperature: 0°F, -18° C
For ES & 28W Lamps: 60° F, 16° C
- Maximum Ambient Temperature: 105° F, 40° C
- Sound Rated: A
- Remote Mounting: 20 ft. max. lead length, 18 AWG

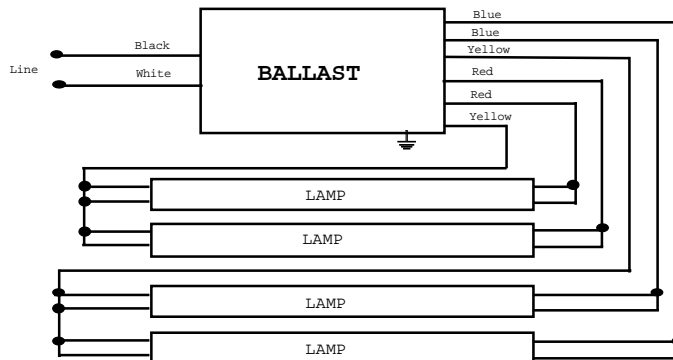
Physical Parameters:

- Length: 9.50"
- Width: 1.70"
- Height: 1.18"
- Weight: 1.7 lbs.
- Lead Length: White, Black 25" (± 1")
- Red & Blue 31" (± 1")
- Yellow 45" (± 1")

Warranty:

Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 5 years from date of manufacture when properly installed and under normal conditions of use. Call **1-800-BALLASTx800** for technical assistance.

Manufactured in North America



Note: For three lamp operation, cap any blue lead,

Ballast Must be Grounded



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72866 – F28T8/XLSPX41ECO

GE Ecolux® UltraMax™ Starcoat® T8

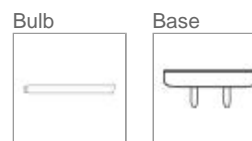


- Passes TCLP, which can lower disposal costs.

- High Color Rendering
- Reduced Wattage
- Circle E Energy Savings

**GENERAL CHARACTERISTICS**

Lamp type	Linear Fluorescent - Straight Linear
Bulb	T8
Base	Medium Bi-Pin (G13)
Wattage	28
Voltage	115
Rated Life	36000 hrs
Rated Life (instant start) @ Time	30000 h @ 3 h 36000 h @ 12 h
Rated Life (rapid start) @ Time	36000 h @ 3 h 42000 h @ 12 h
Bulb Material	Soda lime
Starting Temperature (MIN)	15
LEED-EB MR Credit	43 picograms Hg per mean lumen hour
Additional Info	TCLP compliant

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- [F28T8-XL Sell Sheet.pdf](#)

[MSDS \(Material Safety Data Sheets\)](#)[Disposal Policies & Recycling Information](#)**PHOTOMETRIC CHARACTERISTICS**

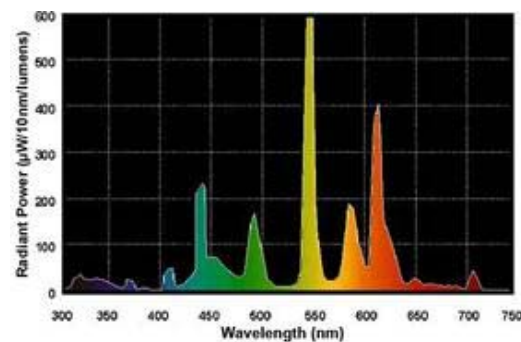
Initial Lumens	2725
Mean Lumens	2562
Nominal Initial Lumens per Watt	97
Color Temperature	4100 K
Color Rendering Index (CRI)	82
S/P Ratio (Scotopic/Photopic Ratio)	1.8

ELECTRICAL CHARACTERISTICS

Cathode Resistance Ratio - Rh/Rc (MIN)	4.25
Cathode Resistance Ratio - Rh/Rc (MAX)	6.5
Lamp Current	0.275 A
Current Crest Factor (MAX)	1.7

DIMENSIONS

Maximum Overall Length	47.7800
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GRAPHS & CHARTS**Spectral Power Distribution****Lamp Mortality**

(MOL)

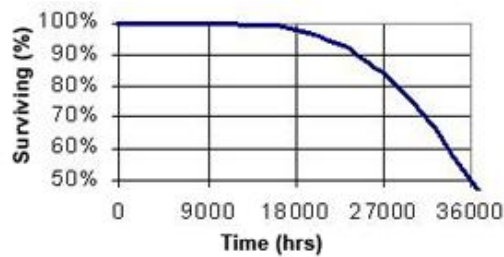
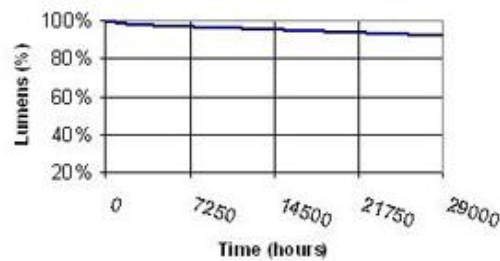
Minimum Overall Length	47.7800
Nominal Length	48
Bulb Diameter (DIA)	1
Bulb Diameter (DIA) (MIN)	0.940
Bulb Diameter (DIA) (MAX)	1.100
Max Base Face to Base Face (A)	47.220
Face to End of Opposing Pin (B) (MIN)	47.400
Face to End of Opposing Pin (B) (MAX)	47 1/2
End of Base Pin to End of Opposite Pin End (C)	47.670

PRODUCT INFORMATION

Product Code	72866
Description	F28T8/XLSPX41ECO
Standard Package	Case
Standard Package GTIN	10043168728666
Standard Package Quantity	36
Sales Unit	Unit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	36
UPC	043168728669

COMPATIBLE GE BALLASTS

Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
23680	GE-132-120-N	1	99.0	0.84
24161	GE-132-120-N-84T	1	99.0	0.84
23681	GE-132-277-N	1	97.0	0.84
24162	GE-132-277-N-84T	1	97.0	0.84
72258	GE132MAX-L/ULTRA	1	93.0	0.78
72259	GE132MAX-N/ULTRA	1	99.0	0.88
30189	GE-132-MV-N	1	99.0	0.8
72269	GE-132-MV-N	1	99.0	0.88
30268	GE-132-MV-N-42T	1	99.0	0.8
72270	GE-132-MV-N-42T	1	99.0	0.88
74101	GE132-N-347	1	96.0	0.84
74102	GE132-N-347-T	1	96.0	0.84
23671	GE-232-120-N	1	99.0	0.91
24163	GE-232-120-N-84T	1	99.0	0.91
97782	GE232-120-RES	2	5.0	0.97
71037	GE232-120RES-DIY	2	5.0	0.97
23672	GE-232-277-N	2	99.0	0.91
24164	GE-232-277-N-84T	2	99.0	0.91
74109	GE232MAX347-	1	95.0	1.3

**Lumen Maintenance****YOU MIGHT ALSO BE INTERESTED IN...****For Energy**[GE Ecolux® Starcoat® T8 - Shatter-Resistant](#)

Product code: 72814

- Saves energy compared to standard wattage lamps
- Passes TCLP, which can lower disposal costs.
- A shatter resistant lamp encased in a 15 ml Lexan sleeve. Complies with FDA food code 6-202 and 21CFR 110.20. NSF and UL certified. Blocks UV lamp emissions from 380 to 180 nm.

[COMPARE](#)

*Click on product for more specification details



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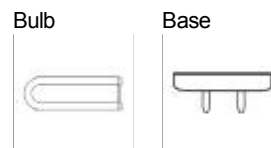
72116 – F32T8SPX41U6WMEC

GE Watt-Miser® Mod-U-line® T8



GENERAL CHARACTERISTICS

Lamp type	Linear Fluorescent - U-Shaped
Bulb	T8
Base	Medium Bi-Pin (G13)
Wattage	30
Rated Life	24000 hrs
Bulb Material	Soda lime
Starting Temperature (MIN)	10
Additional Info	TCLP compliant

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PHOTOMETRIC CHARACTERISTICS

Initial Lumens	2800
Mean Lumens	2632
Nominal Initial Lumens per Watt	93
Color Temperature	4100 K
Color Rendering Index (CRI)	85

DIMENSIONS

Nominal Length	22 1/2
Bulb Diameter (DIA)	1

PRODUCT INFORMATION

Product Code	72116
Description	F32T8SPX41U6WMEC
Standard Package	Case
Standard Package GTIN	10043168721162
Standard Package Quantity	12
Sales Unit	Unit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	12
UPC	043168721165

COMPATIBLE GE BALLASTS

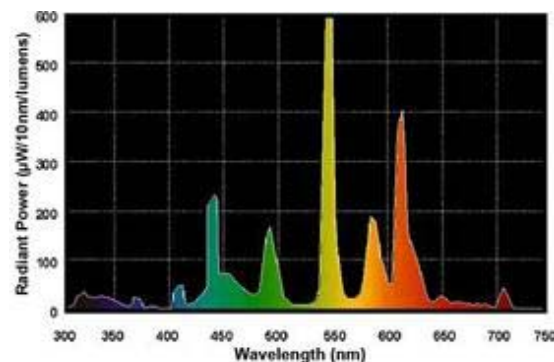
Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
80353	B132R120V5	1	0.9	0.88
80355	B232SR120V5	2	0.9	0.88
80362	B232SR277S50	2	0.99	0.88
80356	B232SR277V5	2		0.88
80357	B332SR120V5	3	0.9	0.88

ADDITIONAL RESOURCES

[Catalogs](#)[Testimonials](#)[Disposal Policies & Recycling Information](#)

GRAPHS & CHARTS

Spectral Power Distribution



VendingMiser®

ENERGY MANAGEMENT SYSTEM For Refrigerated Vending Machines

Improve the profitability of your existing cold drink machines. Vending Miser® puts you on a cost-effective refresher course for energy savings and conservation.

VendingMiser cuts energy costs down to size. VendingMiser incorporates its innovative energy-saving technology into a small, plug-and-play powerhouse that installs in minutes either on the wall or on the vending machine. It's that easy.

With VendingMiser there's no need to have new machines to achieve maximum energy savings resulting in a reduction in operating costs and greenhouse gas emissions. When equipped with the VendingMiser, refrigerated beverage vending machines use less energy and are comparable in daily energy performance to new ENERGY STAR® qualified machines.

Power play

Compatible with all types of cold drink vending machines, the VendingMiser uses a Passive Infrared Sensor (PIR) to power down the machine when the area surrounding it is vacant. Then it monitors the room's temperature and automatically re-powers the cooling system at one- to three-hour intervals, independent of sales, to ensure that the product stays cold.

This Miser runs the bank

For a series of up to four machines, VendingMiser can use its embedded Sensor Repeater, which allows it to be controlled from the PIR sensor of any other Miser in the bank.

Refresher course

VendingMiser's microcontroller will never power down the machine while the compressor is running, eliminating compressor short-cycling. In addition, when the machine is powered up, the cooling cycle is allowed to finish before again powering down. This reduces the wear and tear on your machines, extending the lifespan and prolonging your profitability. Maintenance savings is generated through reduced running time of vendor components – estimated at \$40 - \$80 per year, per machine. The VendingMiser has been tested and accepted for use by major bottlers.

VendingMiser reduces energy consumption an average of 46%—typically \$150 per machine.



Schedule
Contract GS-35F-0031R



Vending Miser offers...

- A quick, inexpensive solution to energy savings and conservation
- Longer machine lifespan
- Early return on investment
- Environmental benefits

VendingMiser can also control other cooled product vending machines, such as refrigerated candy machines.

VendingMiser Technical Specifications Electrical Specifications

Input Voltage: 115 Volts
Input Frequency: 50/60 Hz
Maximum Load: 12 Amps (Steady-State)
Power Consumption: Less than 1 Watt (Standby)

Environmental Specifications

Operating Temp: -15°C to 75°C
Storage Temp: -40°C to 85°C
Relative Humidity: 95% Maximum (Non-Condensing)

Compatibility

Vending Machines: Any machine, except those containing perishable goods such as dairy products

Inactivity Timeouts

Occupancy Timeout: 15 minutes
Auto Re-power: One to three hours, dynamically adjusted, based on ambient temperature

Dimensions

Size: 4.5"W x 1.75"H x 3.25"D
Weight: 2.2 lbs. (includes power cable)

Regulatory Approvals

Safety: UL/C-UL Listed
Information Technology Equipment (ITE) 9T79

Other energy-saving products offered by USA Technologies include VM2IQ™, CoolerMiser™, SnackMiser™ and PlugMiser™.

Frequently Asked Questions

Will VendingMiser® keep my drinks cold?

Absolutely - VendingMiser® has been tested and accepted for use by both major bottlers.

Is the VendingMiser® easy to install?

Yes! VendingMiser® is a simple external plug-and-play product. The VendingMiser® can be installed on the wall with simple hand tools or it can be attached to the vending machine without tools using the new Easy-Install system. The Easy-Install System allows quick installation in 5 minutes.

Is VendingMiser® safe for all machines?

Yes! VendingMiser® is compatible with all types of cold drink vending machines. In fact, by reducing run time of the machines, VendingMiser® reduces maintenance costs.

Has VendingMiser® been field tested?

Tens of thousands of VendingMisers® are operational in the field. Typical energy savings have been independently documented to be between 35% and 45%. Measurement and verification test results as well as testimonials are available on the website.

Are there any locations not appropriate for VendingMiser®?

VendingMiser's® savings are generated as a result of location vacancy. Therefore, a machine in a location that is occupied 24-hours, 7 days a week will likely generate little savings. Our VM2IQ is more appropriate for this type of location and will typically save up to 35% energy use.

Technical Specifications

ELECTRICAL SPECIFICATIONS

Input Voltage: 115 Volts (230 Volts available)
Input Frequency: 50/60 Hz
Maximum Load: 12 Amps (Steady-State)
Power Consumption: Less than 1 Watt (Standby)

ENVIRONMENTAL SPECIFICATIONS

Operating Temp: -15°C to 75°C
Storage Temp: -40°C to 85°C
Relative Humidity: 95% Maximum
 (Non-Condensing)

COMPATIBILITY

Vending Machines: Any machine, except those containing perishable goods such as dairy products.

INACTIVITY TIMEOUTS

Occupancy Timeout: 15 minutes
Auto Repower: One to three hours, dynamically adjusted, based on ambient temperature

DIMENSIONS

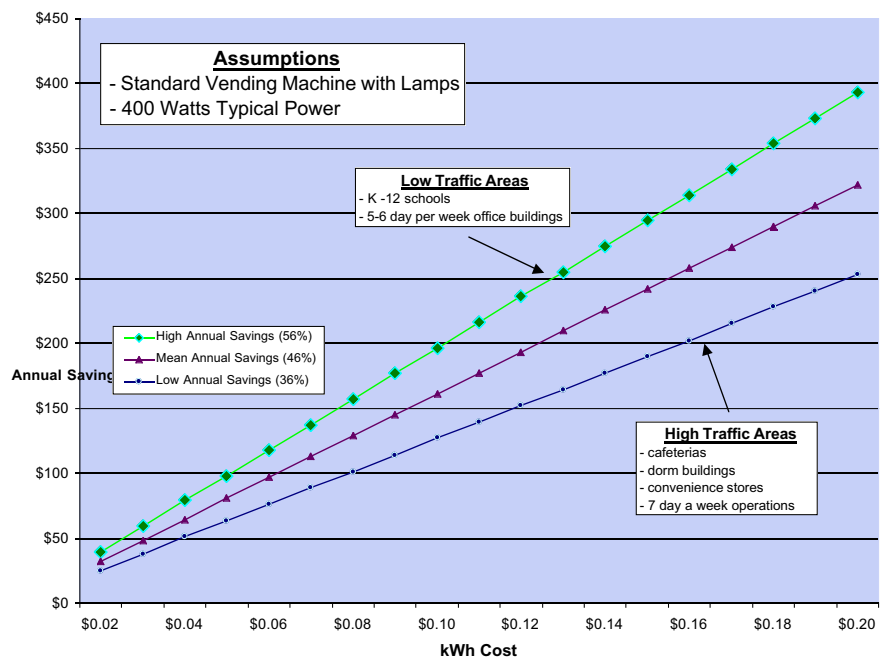
Size: 4.5"W x 1.75"H x 3.25"D
Weight: 2.2 lb. (incl. power cable)

REGULATORY APPROVALS

Safety: UL/C-UL Listed
 Information Technology
 Equipment (ITE) 9T79



Typical Saving Generated with VendingMiser®



VendingMiser® Products

VM150	VendingMiser® with PIR Sensor
VM151	VendingMiser® only
VM160	Weatherproof VendingMiser® with PIR Sensor
VM161	Weatherproof VendingMiser® only
VM170	Easy-Install VendingMiser® with PIR Sensor
VM171	Easy-Install VendingMiser® only
VM180	Weatherproof Easy-Install VendingMiser w/PIR sensor
VM181	Weatherproof Easy-Install VendingMiser only