

QUICKTRONIC® T8 Instant Start

UNV High Ambient Temp. Systems
High Efficiency Series



Lamp Striation Control
High Ballast Factor

QHE T8 ISH HT

Lamp / Ballast Guide

32W T8 - fluorescent lamps
2-lamp QHE 2x32T8 UNV ISH HT SC
3-lamp QHE 3x32T8 UNV ISH HT SC
Also operates:
FB32, FB31, F30/SS (30W), FB30/SS (30W), FB29/SS (29W), F28/SS (28W) & F25/SS (25W)

Key System Features

- High Efficiency Systems over 90% efficient
- 90°C maximum case temp.
- Lamp Striation Control (LSC)
- Over 100 LPW (lumens/watt) with energy-saving lamps
- Lowest power T8 PLUS Systems
- Universal voltage (120-277V)
- 1.18-1.20 ballast factor
- 30-50% Energy savings
- Min. Starting Temp:
 - -20°F (-29°C) for T8 lamps
 - 60°F (16°C) for Energy Saving T8 lamps
- <10% THD
- Virtually eliminates lamp flicker
- RoHS compliant
- Lead-free solder and manufacturing process

Application Information

QUICKTRONIC High Efficiency ballasts

- are ideally suited for:
- Any applications where the highest light output for the lowest amount of power T8 systems are needed for maximum energy savings
 - High bay lighting
 - Energy Retrofits
 - Commercial & Retail
 - Hospitality & Institutional
 - New Construction

QUICKTRONIC High Efficiency (QHE) energy-saving electronic T8 ISH (PLUS) ballasts offer several advantages:

- Same Light, Less Power!
- Up to 6% in energy savings compared to standard T8 low power electronic ballasts without compromising light output
- Maximum energy savings when compared to F40T12 magnetically ballasted systems
- High Light Output:
 - Higher lumens per fixture
 - Fewer fixtures required for same light output
- Parallel Circuitry: keeps remaining lamps lit if one or more go out.
- Lamp Striation Control (LSC): T8 energy saving lamps should be operated above 60°F, but under certain conditions the lamps may striate. LSC circuitry may minimize or eliminate this condition; however there are limited applications where LSC circuitry may not entirely mitigate lamp striations. These ballasts are also RoHS compliant and feature lead-free solder and manufacturing process.



- High Ambient Temp: specifically designed for those applications where the ballast is subject to higher ambient temperatures, such as high bays in industrial installations.

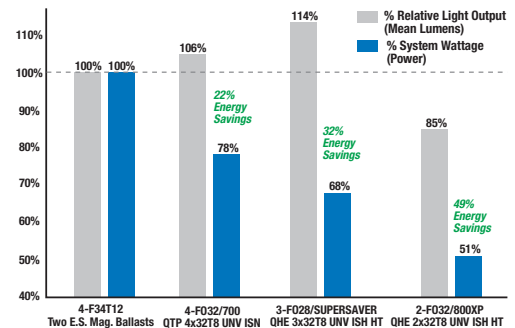
System Information

QUICKTRONIC High Efficiency (QHE)

System advantages:

- Operate from 120V through 277V
 - Eliminates "wrong voltage" errors
 - Reduces inventory by 50%
- Utilizes Instant Start operation for
 - Highest System Efficacy
 - Low temperature starting capability
- Very low harmonic distortion (<10%)THD
- Operate at >42 kHz to reduce potential interference with infrared control systems

System Type	Input Power (W)	Initial System Lumens	System Efficacy LPW	Mean System Lumens	Relative Mean Light Output	Energy Savings
4:F34T12 - Two E.S. Magnetic Ballasts	144	9330	65	7930	Baseline	Baseline
4:F032T8/700 - QTP 4x32T8 UNV ISN SC	112	9150	82	8415	106%	22%
3:F032/XP® - QHE 3x32T8 UNV ISH HT SC	111/109	10620	96/97	9985	126%	23%
3:F028/SS - QHE 3x32T8 UNV ISH HT SC	98/96	9650	98/101	9070	114%	32%
2:F032/XP - QHE 2x32T8 UNV ISH HT SC	74/73	7200	97/99	6770	85%	49%
2:F028/SS - QHE 2x32T8 UNV ISH HT SC	65/64	6540	101/102	6150	78%	55%



SPECIFICATION DATA

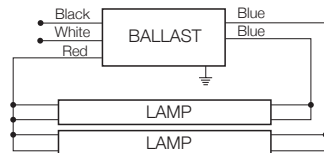
Catalog #	Date	Type
Project	Prepared by	
Comments		

High Efficiency, Lamp Striation Control, High Ambient (120-277V)

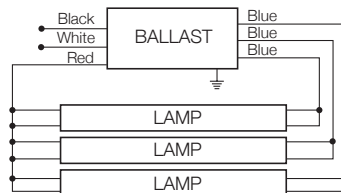


Item Number (NAED)	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (lm/W)	BEF ¹
*27468X (49497)	QHE 2X32T8 UNV ISH HT SC J10 - 10-Pack	0.65/0.28	F32/700	2600	2	1.20	6240	5735	74/73	84/86	1.64
		0.65/0.28	F32/XP	3000	2	1.20	7200	6770	74/73	97/99	1.64
		0.59/0.25	F30SS	2850	2	1.20	6840	6430	70/69	98/99	1.74
		0.55/0.23	F28SS	2725	2	1.20	6540	6150	65/64	101/102	1.88
		0.50/0.22	F25/SS	2475	2	1.20	5940	5585	58/57	102/104	2.11
*274690 (49500)	QHE 3X32T8 UNV ISH HT SC B J10 - Banded Pack	0.93/0.40	F32/700	2600	3	1.18	9205	8460	111/109	83/84	1.08
		0.93/0.40	F32/XP	3000	3	1.18	10,620	9985	111/109	96/97	1.08
		0.87/0.38	F30SS	2850	3	1.18	10,090	9485	104/103	97/98	1.15
*27468Y (49499)	J10 - 10-Pack	0.82/0.35	F28SS	2725	3	1.18	9650	9070	98/96	98/101	1.23
		0.72/0.31	F25/SS	2475	3	1.18	8760	8235	87/86	101/102	1.37

NAED in parentheses is provided as a cross reference for the new item number.
¹ Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).



QUICKTRONIC 2x32

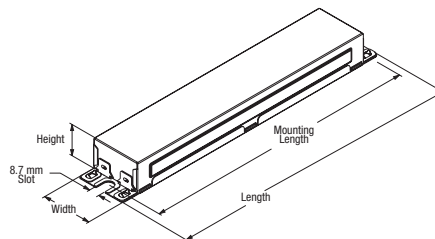


QUICKTRONIC 3x32

Dimensions "-SC" Small Enclosure:
 Overall: 9.5" L x 1.68" W x 1.18" H
 Mounting: 8.90"

Product Weight:
 1.6 lbs each (approx.)

Wiring:
 Leads only



Item Number	*274690	QHE	3	x	32T8	UNV	IS	HT	SC	Case Size
QUICKTRONIC High Efficiency										High Case Temp. Rating
Number of Lamps										Starting/Ballast Factor
Primary Lamp Wattage										Line Voltage (120-277V)

High Ballast Factor

T8 Instant Start
High Efficiency

Performance Guide

QUICKTRONIC® QHE Instant Start ballasts are compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F32 (and energy-saving & U-Bend equivalent) T8 lamps.

Specifications
Data based on F32T8

Starting Method: Instant Start
Ballast Factor: 1.18-1.20
Circuit Type: Parallel
Lamp Frequency: >42 kHz
Lamp CCF: Less than 1.7
Starting Temp:²
 -20°F (-29°C) for T8 lamps;
 60°F (16°C) for energy-saving T8 lamps
Input Frequency: 50/60 Hz
Low THD: <10%
PowerFactor: >98%
Voltage Range: ±10% of 120-277V rated line (108-305V)

UL Listed Class P, Type 1 Outdoor
 CSA Certified
High Ambient Applications:
 90°C Max. Case Temp. (3 yr. warranty)
Standard Ambient Applications:
 70°C Max. Case Temp. (5 yr. warranty)
 FCC 47CFR Part 18 Non-Consumer
 Class A Sound Rating
 RoHS Compliant³
 ANSI C62.41 Cat. A Transient Protection
 GFCI compatible
 Emergency ballast compatible
 Remote Mounting (Max. wire length from ballast case to lampholder):

- 20 ft: full wattage T8s
- 10 ft: energy saving T8s
- 4 ft: 25W energy saving T8s

² Operation below 50°F (10°C) may affect light output or lamp operation – see "Low Temp. Starting" definition.
³ Complies with European Union Restriction of Hazardous Substances Directive (Directive EC 2002/95)

Warranty

QUICKTRONIC® Ballasts have a 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/support/warranty/terms-and-conditions

QUICKTRONIC North America
 1-877-636-5267
techsupport@quicktronic.com

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QHE T8 ISH HT