

# 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.

### System Information

#### QUICKTRONIC High Efficiency (QHE)

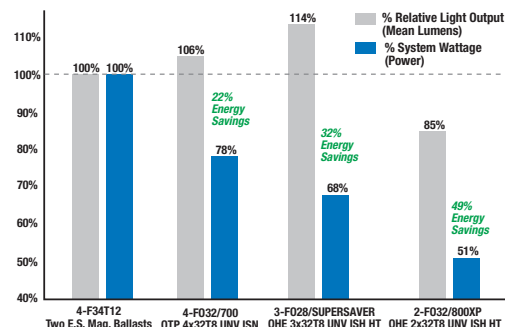
System advantages:

- 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



- **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 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

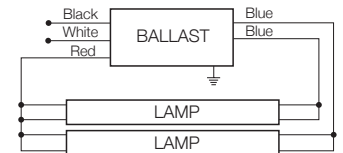
Catalog #	Date	Type
Project	Prepared by	
Comments		

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

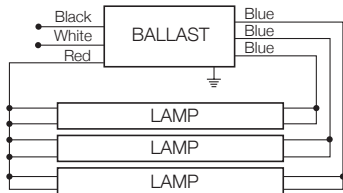


Item Number (NAED)	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (lm/W)	BEF¹
*27468X (49497)	QHE 2X32T8 UNV ISH HT SC J10 - 10-Pack	0.65/0.28	F32/700	2600	2	1.20	6240	5735	74/73	84/86	1.64
		0.65/0.28	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

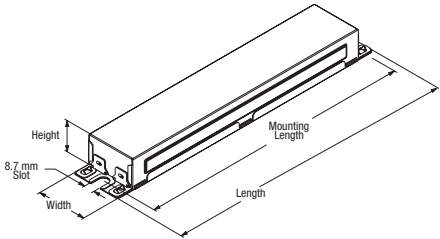


QUICKTRONIC 3x32

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](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

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Specifications subject to change without notice. All trademarks referenced are property of their respective owners. Actual performance may differ as a result of end-user environment and application. Direct replacement LED lamps should not be used unless they have been certified for electrical safety, are compatible with the ballast and are suitable for the intended application environment. Only replacement lamps that comply with applicable lamp and ballast manufacturers' ratings, compatibility listings and instructions should be used.

QHE T8 ISH HT