

# QUICKTRONIC® T8 Instant Start UNV High Ambient Temp. Systems

## High Efficiency Series

QHE T8 ISH CC-HT

### Lamp / Ballast Guide

- 32W T8 - OCTRON® lamps
- 2-lamp QHE2x32T8/UNV-ISH-HT-SC-1
- 3-lamp QHE3x32T8/UNV-ISH-HT-SC-1
- 4-lamp QHE4x32T8/UNV-ISH-HT-1

#### Also operates:

- FB032, FB031, F030/SS (30W), FB030/SS (30W), FB029/SS (29W), F028/SS (28W) & F025/SS (25W), F025, FB024, F017 & FB016 lamps

### Key System Features

- High Efficiency Systems over 90% efficient
- NEMA Premium Electronic Ballast Program compliant
- UL Type CC Rated (Commercial Cabinet)
- Lamp Striation Control (LSC)
- Min. Starting Temp:
  - 20°F (-29°C) for T8 lamps
  - 60°F (16°C) for Energy Saving T8 lamps
- 90°C maximum case temperature
- QHE ballasts also meets the most demanding utility rebate standards
- RoHS compliant
- Lead-free solder and manufacturing process

### Application Information

**SYLVANIA QUICKTRONIC High Efficiency (QHE) ballasts** are ideally suited for:

#### UL Type CC

- Refrigerated cases\*
- Walk-in coolers\*
- Commercial cabinets
- Display cases
- Applications that could expose lamp and sockets to vibration and potential movement

#### Lamp Striation Control, (LSC)

- General lighting applications where energy saving T8 lamps may striate, particularly for the F25 energy saving T8 lamps.

#### High bay

#### Warehouses

\*T8 energy saving lamps should not be used in applications below 60°F lamp ambient.

**SYLVANIA QUICKTRONIC High Efficiency, (QHE) Type CC** energy saving electronic T8 ballasts offer seven major advantages:

- Same Light, Less Power!**
  - Up to 6% in energy savings compared to standard efficiency T8 electronic ballasts without compromising light output
  - 50% energy savings when compared to typical magnetically ballasts 400 metal halide systems
- High Light Output:**
  - Higher lumens per fixture
  - Fewer fixtures required for same light output
  - Ideal for high bays
- UL Type CC compliant:** ballasts utilize a micro-controller based circuit to reduce arcing caused by loose connections or improper lamp pin to socket connections.
- 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

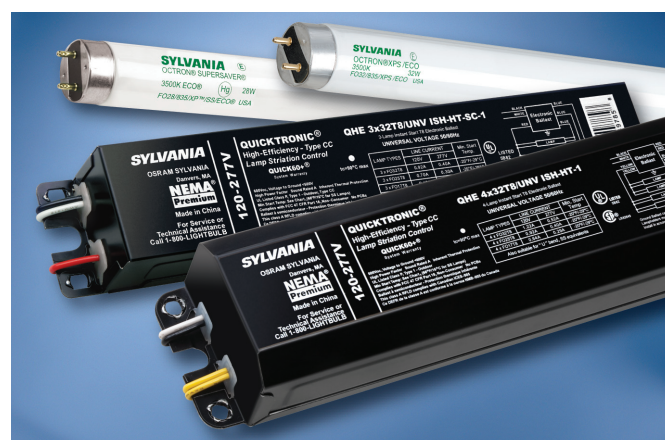
### System Information

**SYLVANIA 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
    - Parallel circuitry - keeps remaining lamps lit if one or more go out
  - Very low harmonic distortion (<10%) THD
  - Operate at >42kHz to reduce potential interference with infrared control systems
- SYLVANIA QUICKTRONIC High Efficiency (QHE) systems are covered by our QUICK 60+® warranty, the first and most comprehensive lamp & ballast system warranty in the industry.



**Type CC**  
**Lamp Striation Control**  
**High Ballast Factor**



not entirely mitigate lamp striations. (Please consult lamp manufacturers for additional details.)

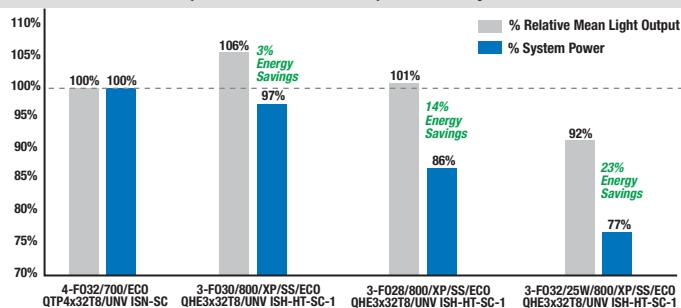
- NEMA Premium Electronic Ballast Program compliant.** The program promotes the use of high efficiency T8 electronic ballasts by meeting or exceeding the Ballast Efficiency Factors, (BEF) established by the CEE, (Consortium for Energy Efficiency). For additional information on this program go to: [www.cee1.org](http://www.cee1.org) or [www.nema.org](http://www.nema.org)

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

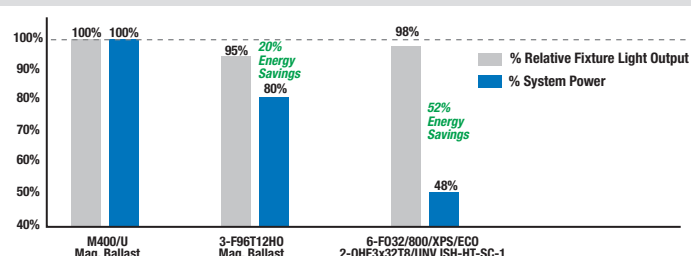
**7. Available in 2, 3 & 4-lamp models** which allows great flexibility for various light levels in high bay applications to replace HID or T12HO lighting applications.

These ballasts are also RoHS compliant and feature lead-free solder and manufacturing process.

### 4-Lp 700T8 Series vs. 3-Lp QHE-ISH Systems



### High Bay Comparison



## SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

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



Item Number	OSRAM SYLVANIA Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power 120V 277V	System <sup>1</sup> Efficacy (lm/W)	BEF <sup>2</sup>
49783	QHE 2x32T8/UNV ISH-HT-SC-1 Banded Pack	0.63/0.28	F032/700	2800	2	1.18	6610	5945	74 73	91	1.62
		0.63/0.28	F032/XPS	3100	2	1.18	7315	6875	74 73	100	1.62
		0.59/0.25	F030/SS	2850	2	1.18	6725	6320	70 69	97	1.71
		<b>0.55/0.23</b>	<b>F028/SS</b>	<b>2725</b>	<b>2</b>	<b>1.18</b>	<b>6430</b>	<b>6045</b>	<b>65 64</b>	<b>100</b>	<b>1.84</b>
		0.50/0.22	F025/SS	2475	2	1.18	5840	5490	58 57	102	2.07
		0.47/0.21	F025/XPS	2200	2	1.19	5235	4920	57 56	93	2.13
		0.34/0.15	F017/XPS	1400	2	1.20	3360	3160	40 40	84	3.00
49785	QHE 3x32T8/UNV ISH-HT-SC-1 Banded Pack	0.93/0.40	F032/700	2800	3	1.17	9830	8845	111 109	90	1.07
		0.93/0.40	F032/XPS	3100	3	1.17	10,880	10,230	111 109	100	1.07
		0.87/0.38	F030/SS	2850	3	1.17	10,005	9405	104 103	97	1.14
		<b>0.82/0.35</b>	<b>F028/SS</b>	<b>2725</b>	<b>3</b>	<b>1.17</b>	<b>9565</b>	<b>8990</b>	<b>98 96</b>	<b>100</b>	<b>1.22</b>
		0.72/0.31	F025/SS	2475	3	1.17	8685	8165	87 86	101	1.36
		0.70/0.31	F025/XPS	2200	3	1.19	7855	7385	84 84	94	1.42
		0.49/0.22	F017/XPS	1400	3	1.20	5040	4740	59 58	87	2.07
49787	QHE 4x32T8/UNV ISH-HT-1 Banded Pack	1.22/0.52	F032/700	2800	4	1.15	12,880	11,590	144 141	91	0.82
		1.22/0.52	F032/XPS	3100	4	1.15	14,260	13,405	144 141	101	0.82
		1.13/0.49	F030/SS	2850	4	1.15	13,110	12,325	135 133	99	0.86
		<b>1.06/0.46</b>	<b>F028/SS</b>	<b>2725</b>	<b>4</b>	<b>1.15</b>	<b>12,535</b>	<b>11,785</b>	<b>127 124</b>	<b>101</b>	<b>0.93</b>
		0.94/0.41	F025/SS	2475	4	1.15	11,385	10,700	112 111	103	1.04
		0.92/0.40	F025/XPS	2200	4	1.19	10,470	9845	109 109	96	1.09
		0.64/0.29	F017/XPS	1400	4	1.20	6720	6315	77 77	87	1.56

Banded Pack Item Numbers (add "-B" to Description). Banded Pack contains 10 pieces.

1: System Efficacy calculation based on lowest input power value

2: Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest power value).

## High Ballast Factor

## T8 Instant Start

## High Efficiency

## Performance Guide

Data based upon SYLVANIA OCTRON® lamps shown. QUICKTRONIC® QHE Instant Start ballasts are also compatible with other manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F32, F25, F17 and the U-bend & energy saving equivalent T8 lamps.

## Specifications Data based on F32T8

Starting Method: Instant Start

Ballast Factor: 1.15-1.20

Circuit Type: Parallel

Lamp Frequency: >40kHz

Lamp CCF: Less than 1.7

Starting Temp:<sup>3</sup>

-20°F (-29°C) for OCTRON T8 lamps;

60°F (16°C) for SUPERSAVER® T8 lamps

Input Frequency: 50/60 Hz

Low THD: <10%

Power Factor: >98%

Voltage Range: ±10% of 120-277V

rated line (108-305V)

UL Listed Class P, Type 1 Outdoor

UL Type CC Rated

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 47 CFR Part 18 Non-Consumer

Class A Sound Rating

RoHS Compliant<sup>4</sup>

ANSI 62.41 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

3 Operation below 50°F (10°C) may affect

light output or lamp operation – see

"Low Temp. Starting" definition.

4 Complies with European Union Restriction

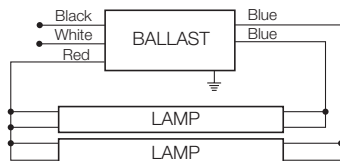
of Hazardous Substances Directive (Directive EC 2002/95)

## System Life / Warranty

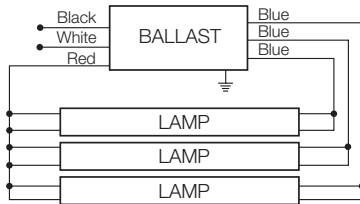
QUICKTRONIC products are covered by the QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to the QUICK 60+ warranty bulletin.

**OSRAM SYLVANIA**  
**National Customer**  
**Service and Sales Center**  
1-800-LIGHTBULB  
(1-800-544-4828)  
www.sylvania.com

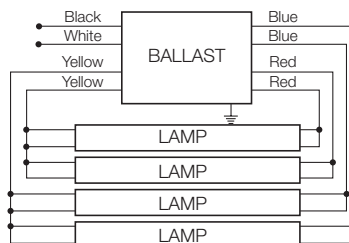
Specifications subject to change without notice.



QUICKTRONIC 2x32



QUICKTRONIC 3x32



QUICKTRONIC 4x32

Dimensions "SC" Small Enclosure:

Overall: 9.5" L x 1.68" W x 1.18" H

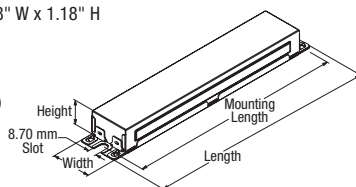
Mounting: 8.90"

Product Weight:

1.6 lbs each (approx)

Wiring:

Leads only



Dimensions Standard Enclosure (4L):

Overall: 9.5" L x 2.38" W x 1.6" H

Mounting: 8.90"

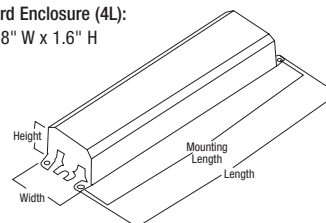
Product Weight:

2.8 lbs each

(approx)

Wiring:

Leads only



Item Number — 49783 QHE 2 x 32T8 / UNV ISH - HT - SC - 1 — UL Type CC  
QUICKTRONIC High Efficiency — Case Size  
Number of Lamps — High Case Temp. Rating  
Primary Lamp Wattage — Starting/Ballast Factor  
Line Voltage (120-277V)