SYLVANIA QUICKTRONIC® T8 Instant Start UNIVERSAL VOLTAGE
High Efficiency Series

Lamp/Ballast Guide

32W T8 - OCTRON®
QHE ISL SC Models
1-lamp QHE1x32T8/UNV
2-lamp QHE2x32T8/UNV
3-lamp QHE3x32T8/UNV
4-lamp QHE4x32T8/UNV
Also operates:
FO32, FO31, FO25, FBO24, FO17, FBO16, FBO30/SS (30W),
FBO30/SS (30W), FBO29/SS (29W),
FBO28/SS (28W) & F025/SS (25W)

FO40T8 operation:
1 lamp on 2L ballast
2 lamps on 3L ballast
3 lamps on 4L ballast

Note: FO40T8 0°F Starting Temp.

Key System Features

- High Efficiency Systems
  over 90% efficient
- Over 100 LPW (lumens/watt) with OCTRON SUPERSAVER® lamps
- Lowest power T8 I.S. Systems
- Universal voltage (120-277)
- Small Can enclosure size
- 30-50% Energy savings
- -20°F (-29°C) min. starting temp. for OCTRON lamps
- 60°F (16°C) min. starting temperature with OCTRON SUPERSAVER lamps
- <10% THD
- Virtually eliminates lamp flicker

Application Information

SYLVANIA QUICKTRONIC High Efficiency
is ideally suited for:
- Any applications where the lowest power T8 systems are needed for maximum energy savings
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction

System Information

SYLVANIA QUICKTRONIC High Efficiency (QHE) energy-saving electronic T8 ballasts save up to 6% over standard electronic ballasts without compromising light output or lamp life. The added energy savings also provides for a quicker payback. QHE ballasts also meet the most demanding utility rebate standards.

SYLVANIA QUICKTRONIC High Efficiency (QHE) operates OCTRON T8 lamps with maximum efficacy and high lumen output, and provides 30-50% energy savings when compared to F40T12 magnetic systems.

Small can enclosure allows for low profile fixture design. Small size also provides transportation, inventory and ergonomic benefits. This product is also offered in new banded packaging and pallet packs.

Parallel circuitry is utilized to keep the remaining lamps lit if one or more should go out.

SYLVANIA QUICKTRONIC High Efficiency (QHE) is also covered by our QUICK 60+® warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

SYLVANIA QUICKTRONIC High Efficiency (QHE) operates OCTRON T8 lamps with maximum efficacy and high lumen output, and provides 30-50% energy savings when compared to F40T12 magnetic systems.

SYLVANIA QUICKTRONIC High Efficiency (QHE) electronic ballasts have very low harmonic distortion (<10% THD) for high system performance. Ballast operates at >42kHz to reduce potential interference with infrared control systems.

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon request.
### <10% THD High Efficiency Electronic T8 Fluorescent Systems (Low Ballast Factor)

<table>
<thead>
<tr>
<th>Item Number</th>
<th>OSRAM SYLVANIA Description</th>
<th>Input Voltage (VAC)</th>
<th>Input Current (AMPS)</th>
<th>Lamp Type</th>
<th>Rated Lumens (lm)</th>
<th>No. of Lamps</th>
<th>Ballast Factor (BF)</th>
<th>System Lumens</th>
<th>Input Wattage (W)</th>
<th>System Efficiency (lm/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>49861</td>
<td>QHE 1X32T8/UNV ISL-SC</td>
<td>120-277</td>
<td>0.21/0.09</td>
<td>F032/XP</td>
<td>3000</td>
<td>1</td>
<td>0.78</td>
<td>2340</td>
<td>25</td>
<td>94</td>
</tr>
<tr>
<td>49862</td>
<td>QHE 2X32T8/UNV ISL-SC</td>
<td>120-277</td>
<td>0.41/0.18</td>
<td>F032/XP</td>
<td>3000</td>
<td>2</td>
<td>0.78</td>
<td>4680</td>
<td>48</td>
<td>98</td>
</tr>
<tr>
<td>49863</td>
<td>QHE 3X32T8/UNV ISL-SC</td>
<td>120-277</td>
<td>0.61/0.27</td>
<td>F032/XP</td>
<td>3000</td>
<td>3</td>
<td>0.78</td>
<td>7020</td>
<td>71</td>
<td>99</td>
</tr>
<tr>
<td>49864</td>
<td>QHE 4X32T8/UNV ISL-SC</td>
<td>120-277</td>
<td>0.80/0.35</td>
<td>F032/XP</td>
<td>3000</td>
<td>4</td>
<td>0.78</td>
<td>9360</td>
<td>95</td>
<td>99</td>
</tr>
</tbody>
</table>

### Specifications

- **Starting Method:** Instant Start
- **Ballast Factor:** 0.78
- **Circuit Type:** Parallel
- **Lamp Frequency:** > 40kHz
- **Lamp CCF:** Less than 1.7
- **Starting Temp:** -20°F for OCTRON® T8; 60°F for SUPERSAVER® T8
- **Input Frequency:** 50/60 Hz
- **Low THD:** < 10%
- **Power Factor:** > 98%
- **Voltage Range:** 108-305V

### System Life / Warranty

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

### Ordering Guide

Specifications subject to change without notice.

---

<sup>1</sup> Operation below 50°F may affect light output or lamp operation – see "Low Temp. Starting" definition.

---

<sup>2</sup> UL Listed Class P, Type 1 Outdoor CSA Certified (where applicable)

©2006 OSRAM SYLVANIA