

Energy Saving Solutions

SYLVANIA PENTRON® & PENTRON HO ECOLOGIC® Fluorescent Systems



Small in size but delivering high lumen output.

PENTRON® & PENTRON PREMIER® ECOLOGIC® T5 lamps offer a high quality lighting solution for linear fluorescent applications where luminaire aesthetics are important. The small 5/8" diameter of these lamps allow for highly efficient and low profile recessed and indirect options to T8 fluorescent lighting. These lamps are available in 2, 3, 4 and 5-foot lengths and offer a wide range of color temperatures: 3000K, 3500K, 4100K, 5000K and 6500K all with a high CRI of 85. They have a rated life of up to 36,000 hours.

PENTRON HO ECOLOGIC lamps offer a high quality lighting solution for applications where aesthetics and/or high lumen output and long life are important. With a small lamp profile and lumen output that is almost twice that of T8 fluorescent lamps, these lamps offer the prospect of low profile luminaire designs capable of delivering illuminance levels satisfying general ambient lighting requirements ranging from general office and classrooms to industrial manufacturing. PENTRON HO ECOLOGIC T5 linear lamps are available in 2, 3, 4 and 5-foot lengths and offer a wide range of color temperatures: 3000K, 3500K, 4100K, 5000K and 6500K with up to 45,000 hours life and excellent lumen maintenance and CRI.

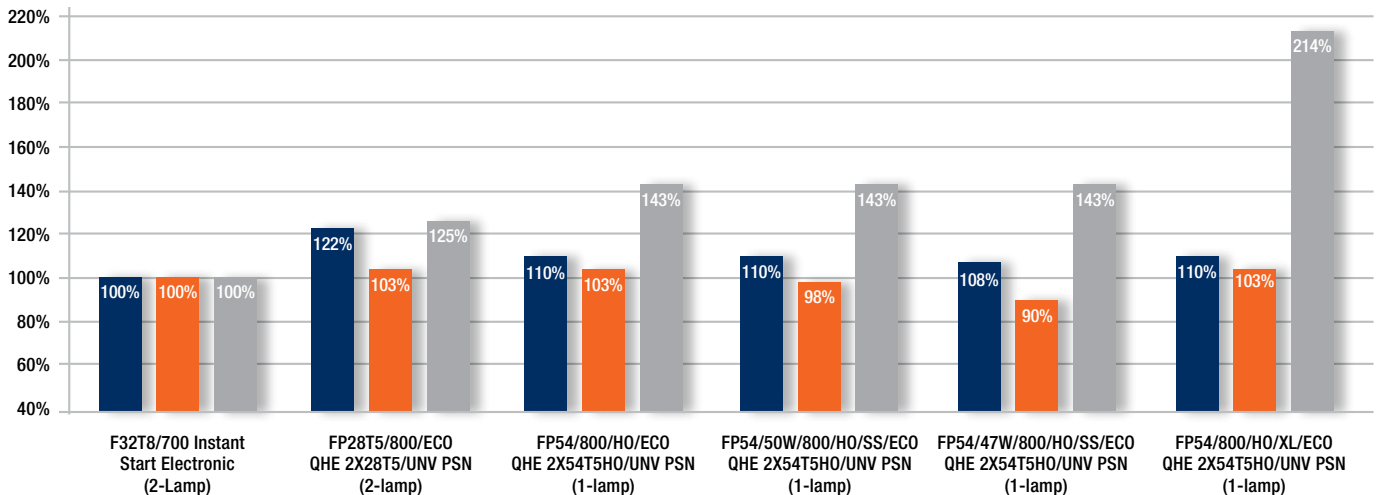
PENTRON HO XL ECOLOGIC lamps feature extended life benefits of up to 60,000 hours on programmed rapid start ballasts. The life ratings reflect up to 71% longer life than standard T5HO lamps, which is equivalent to 3.5 years additional useful lamp life for typical operating cycles of 4000 hours per year. The family includes 4-foot, 54 watt high output types in 3500K, 4100K and 5000K correlated color temperatures. When PENTRON HO XL ECOLOGIC lamps are paired with QUICKTRONIC® PROStart® ballasts the system is covered by a QUICK 60+® System Warranty of 5 years on the ballast and up to 5 years on the lamps.



PENTRON HO SUPERSAVER® ECOLOGIC lamps operate on compatible T5HO programmed rapid start systems, saving energy over full wattage T5HO systems.¹ When compared with 54W T5HO lamps, the 47W lamp offers energy savings of 13% while maintaining 92% of light output and the 50W lamp offers 7% energy savings with no loss in lumen output. At \$0.10/kWh and 4000 hours of operation per year, the 7 to 13% savings translates to savings of \$7.00 to \$12.30 for a 4-lamp luminaire with a normal ballast factor. The 93% lumen maintenance of PENTRON HO SUPERSAVER lamps assures that light levels are maintained while energy is saved, over a very long life of up to 45,000 hours.

PENTRON C HO ECOLOGIC lamps provide constant light output over a wide temperature range – at least 90% of full light output from 10°C to 70°C (50°F to 158°F) – through the use of amalgam technology. This enables the lamps to provide much more light in both cooler and hotter environments than present fluorescent technology. PENTRON C lamps are an alternative lighting solution for many traditional HID applications with all the benefits of fluorescent – immediate restrike, selection of color temperatures, consistent color through life, excellent color rendition and long life. The lamps are available in 4-foot, 54 watt types in 3500K, 4100K and 5000K correlated color temperatures with a life rating of up to 35,000 hours.

System Performance Comparison*




*System power @ 277V. Fixture efficiency not considered.

1. Constant Current High Efficiency ballast

■ Relative Mean System Lumens
 ■ Relative System Power
 ■ Relative Average Lamp Life @ 12hrs/start

The system is the solution.

OSRAM SYLVANIA is the global leader in lighting systems. One of the significant trends in lighting technology is the move toward optimized lamp and ballast systems...we've been at the forefront with  the system solution®, a family of ideally designed energy saving lamps and electronic ballast combinations. OSRAM SYLVANIA has the competitive advantage with years of experience in designing, developing and supporting integrated systems — both in ballasts and lamps. Our global network of design and manufacturing brings ballast and lamp knowledge together to produce innovative and cost-effective energy saving systems.

- Committed to providing energy efficient ballasts & lamps
- Innovative system solutions that exceed customer expectations
- Offer new energy saving, higher efficiency, lower power systems
- These systems are covered by the QUICK 60+® warranty, the first and most comprehensive system warranty in the industry

It's the system solution, only from SYLVANIA.

 the system solution®



QUICKTRONIC® High Efficiency PROStart® T5 Systems

QUICKTRONIC High Efficiency (QHE) PROStart T5 electronic ballasts offer energy savings of more than 2 watts per ballast while delivering the same light output as standard efficiency T5 ballasts. The ballasts feature PROStart programmed rapid start technology for optimized starting that extends lamp life in PENTRON® T5 lamps, delivering over 100,000 switching cycles for use with occupancy sensors and building control systems. They also contain QUICKSENSE® technology, patented circuitry designed to shut the system down reliably and safely when lamps reach end-of life and are UL Type CC approved. QUICKTRONIC QHE PROStart T5 ballasts are available in 2-lamp universal input voltage (120-277V) models that can be wired for one-lamp operation of all PENTRON T5 lamp wattages. The ballasts are RoHS* compliant and feature lead free solder, printed circuit boards and manufacturing process.



QUICKTRONIC High Efficiency PROStart T5HO Systems

QUICKTRONIC High Efficiency (QHE) PROStart T5HO electronic ballasts offer energy savings of more than 2 watts per ballast while delivering the same light output as standard efficiency T5HO ballasts. The ballasts feature PROStart programmed rapid start technology for optimized starting that extends lamp life in PENTRON T5HO lamps, delivering over 100,000 switching cycles for use with occupancy sensors and building control systems. They also contain QUICKSENSE technology, patented circuitry designed to shut the system down reliably and safely when lamps reach end-of life and are UL Type CC approved. QUICKTRONIC QHE PROStart T5HO ballasts are available in types to satisfy a variety of applications with universal input voltage (120-277V), 340-480V as well as high ambient temperature (HT) models which are ideally suited for industrial spaces. The ballasts offering includes models that will operate up to four lamps with multi-level switching capability. They are RoHS* compliant and feature lead-free solder, printed circuit boards and manufacturing process.

* Complies with European Union Reduction of Hazardous Substances Directive (Directive 2002/95/EC)

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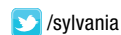
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