

PENTRON® HO XL ECOLOGIC®

T5 High Output EXtended LIfe Lamps



Key Features & Benefits

- Longest life in the industry
 - Up to 71% longer life over standard T5 HO lamps
 - Up to 60,000 hours
- Direct replacement for standard T5 HO program start systems
 - No ballast change required
- Lead-free glass
- TCLP and RoHS compliant^{1,2}
- Greater luminaire design flexibility
- Small lamp profile for more compact, high light output options
- 93% lumen maintenance
- 85 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 percent longer life than standard T5 HO lamps, which is equivalent to an additional 3.5 years of useful life for typical operating cycles of 4,000 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. The QUICK 7XL+™ Warranty will cover the ballast up to 7 years and the lamp up to 6 years.

The QUICK 10XL+™ Warranty for Educational Applications Only will cover the lamps and ballasts for up to 10 years in educational applications.

ECOLOGIC® is a comprehensive program of SYLVANIA focused on addressing environmental issues at all stages of lamp life.

SYLVANIA PENTRON T5 ECOLOGIC fluorescent lamps pass the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states¹. These lamps meet CA AB1109 limits and the European Union Reduction of Hazardous Substances Directive (Directive 2002/95/EC).

1. TCLP test results are based on NEMA LL Series standards and are available on request.
2. Lamp disposal regulations may vary; check your local & state regulations.

Product Offering

Ordering Abbreviation	Wattage	Color Temperature
FP54/800/HO/XL/ECO	54	3500K, 4100K, 5000K

Application Information

Applications

- Canopy
- Facade
- High bay fixtures
- Indirect luminaires
- Security lighting
- Signage

Application Notes

1. PENTRON HO XL ECO lamps are about 2" shorter than T8 & T12 Bi-Pin lamps.
2. Miniature Bi-Pin bases will not install into T8 & T12 sockets.
3. Miniature Bi-Pin bases require UL Listed 600 Volt rated sockets.
4. Requires high frequency programmed rapid start electronic ballasts for T5s equipped with end-of-life sensing circuit.
5. Apply thermal factor in calculations for use in exterior or unheated applications.

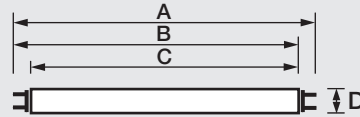
Ordering Information

Item Number	Ordering Abbreviation	Base	Watts	Nom. Length (in.)	Initial Lumens @35/25°C	Mean Lumens @35/25°C	Bulb	Rated Life		CCT	CRI
								3 hrs/ start	12 hrs/ start		
20197	FP54/835/HO/XL/ECO	Min. Bi-Pin	54	48	5000/4450	4650/4140	T5	45,000	60,000	3500K	85
20198	FP54/841/HO/XL/ECO	Min. Bi-Pin	54	48	5000/4450	4650/4140	T5	45,000	60,000	4100K	85
20199	FP54/850/HO/XL/ECO	Min. Bi-Pin	54	48	4900/4360	4560/4055	T5	45,000	60,000	5000K	85

Ordering Guide

FP	54	/	8	30	/	HO	/	XL	/	ECO
Fluorescent	Wattage = 54		CRI ≥ 85	Color		High		EXtended		ECOLOGIC
PENTRON				Temperature		Output		Life		
				35 = 3500K						
				41 = 4100K						
				50 = 5000K						

Lamp Dimensions

	(A) Max. Overall Length (in./mm)	(B) Base Face to Opposite Pin (in./mm)	(C) Max. Base Face to Base Face (in./mm)	(D) Max. Outside Diameter (in./mm)	
FP54	45.80/1163	Min. 45.42/1154 Max. 45.52/1156	Min. 45.16/1147 Max. 45.24/1149	0.67/17.0	

Sample Specification

Lamps shall be PENTRON® T5 HO XL ECOLOGIC® lamps having miniature bi-pin bases and a minimum of 93% lumen maintenance. Lamps shall have a correlated color temperature of (3500K, 4100K or 5000K) and a CRI of 85. The PENTRON T5 HO XL ECOLOGIC® lamps shall be operated on universal OSRAM QUICKTRONIC® PROStart T5 HO ballasts with complete system warranty from the manufacturer covering lamps and ballasts for up to 60 months with the QUICK 60+®, up to 84 months with the QUICK 7XL+™ and up to 120 months with the QUICK10XL+™ warranty for educational applications only.

Related Literature

- Ballast Technology Applications & Specification Guide (Literature Code: ECS-SPECGUIDE2013)
- QUICK 60+® System Warranty (Literature Code: ECS140)
- QUICK 7XL+ System Warranty (Literature Code: ECS280)
- QUICK 10XL+™ Warranty for Education Applications (Literature Code: ECS283)
- QUICKTRONIC® PROStart® T5HO Universal Voltage Systems (Literature Code: ECS127)
- QUICKTRONIC PROStart T5HO High Ambient Temperature System 347-480V (Literature Code: ECS130)
- QUICKTRONIC PROStart T5HO High Ambient Universal Temperature System (Literature Code: ECS129)

