

# PENTRON® HO XL ECOLOGIC®

## T5 High Output Extended Life Lamps



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 3000K, 3500K, 4100K, 5000K and 6500K 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.

### 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
- Made in USA
- TCLP and RoHS compliant<sup>1,2</sup>
- Greater luminaire design flexibility
- Small lamp profile for more compact, high light output options
- 93% lumen maintenance
- 85 CRI



SYLVANIA PENTRON T5 ECOLOGIC fluorescent lamps pass the Federal Toxicity Characteristic Leaching Procedure (TCLP<sup>1</sup>) criteria for classification as non-hazardous waste in most states<sup>2</sup>. 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	3000K , 3500K, 4100K, 5000K, 6500K

### 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.

## Specification Data

Fixture Description:	Type
Project/Job:	
SYLVANIA lamp:	
SYLVANIA ballast:	
Notes:	

## Ordering Information

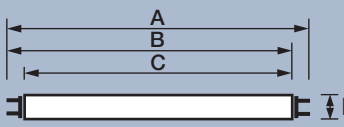
Item Number	Ordering Abbreviation	Base	Watts	Nom. Length (in.)	Initial Lumens @35/25°C	Mean Lumens @35/25°C	Bulb	Rated Life		CCT	CRI
								3 hrs/ start	12 hrs/ start		
20196	FP54/830/HO/XL/ECO	Min. Bi-Pin	54	48	5000/4450	4650/4140	T5	45,000	60,000	3000K	85
20197	FP54/835/HO/XL/ECO	Min. Bi-Pin	54	48	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
20201	FP54/865/HO/XL/ECO	Min. Bi-Pin	54	48	4750/4050	4415/3765	T5	45,000	60,000	6500K	85

## Ordering Guide

FP	54	/	8	30	HO	/	XL	/	ECO
Fluorescent PENTRON	Wattage = 54		CRI ≥ 85	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K 65 = 6500K	High Output		EXtended Life		ECOLOGIC

## 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. 45.42/1154	0.67/17.0



## Related Literature

Ballast Technology Applications & Specification Guide (Literature Code: ECS-ELECTRONIC2009)  
 QUICK 60+ System Warranty (Literature Code: ECS140)  
 QUICTRONIC® PROStart® T5HO Universal Voltage Systems (Literature Code: ECS127)  
 QUICTRONIC PROStart T5HO High Ambient Temperature System 347-480V (Literature Code: ECS130)  
 QUICTRONIC PROStart T5HO High Ambient Universal Temperature System (Literature Code: ECS129)

## 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 (3000K, 3500K, 4100K, 5000K or 6500K) and a CRI of 85. The PENTRON T5 HO XL ECOLOGIC® lamps shall be operated on dedicated QUICTRONIC® PROStart T5 HO ballasts with complete system warranty from the manufacturer covering lamps and ballasts for up to 60 months.

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