

Product Description

The T5 4P single ended germicidal lamps are CE and RoHS approved preheat start UV lamps, and they are a kind of frequently used linear tube UV lamp. The most commonly adopted configuration contains T5 tube and G10q ceramic base.

Advantage

The UV lamp has a power range of 4W-79W, and its useful life is as long as 10000 hours. Our product makes use of superior quartz glass, and the UV transmittance is over 90%. In addition, the 4P single ended structure allows convenient installation, saving a lot of space.

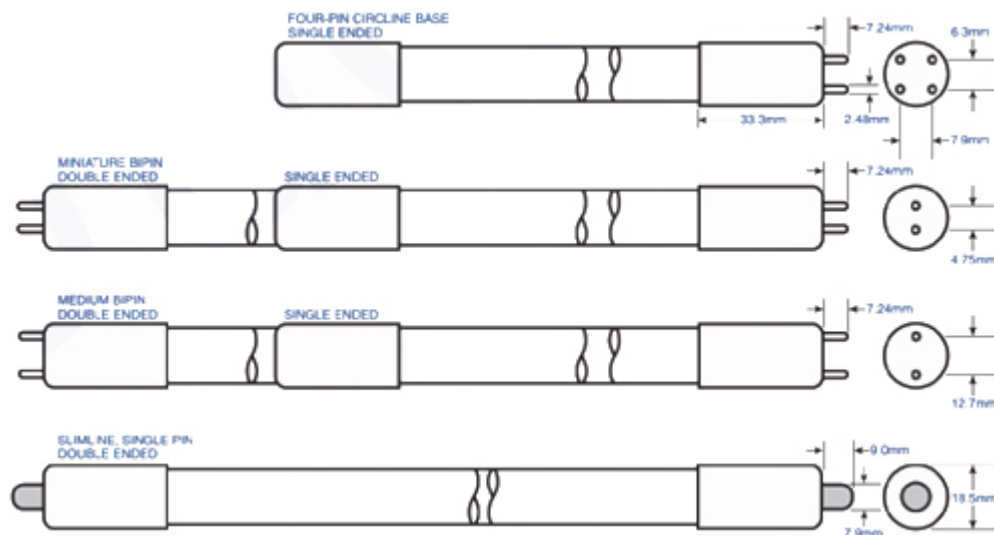
Application

This single ended germicidal lamp is extensively adopted by water treatment systems, especially in overflow ultraviolet sterilizers and aquarium equipment, and the most commonly used models for this purpose include GPH212T5L/4P, GPH287T5L/4P, GPH436T5L/4P, GPH645T5L/4P, GPH843T5L/4P as well as GPH1554T5L/4P. When working with water, quartz sleeve is an indispensable accessory, and we can supply various quartz sleeves as well to optimize overall performance.

Aside from water treatment, our UV bactericidal lamp can be incorporated into HVAC system, independent air purifier and other sterilization devices to offer disinfection solutions.

Technical Data

Table 1: Preheat Start Ozone Free Germicidal Lamp



Product Description

Standard UV Germicidal Lamps

The standard UV germicidal lamps refer to ones with standard transparent glass envelope, and the glass envelope is manufactured from high-purity quartz sand with the help of automatically controlled continuous melting equipment. The fused quartz is characterized by high purity, good thermal stability, high UV transmittance, low OH content and other properties.

Based on the glass tube formulation, our UV bactericidal lamp is classified into three types.

1. L-Type UV Lamp

The L-type UV lamp, where L means low ozone producing, is also known as ozone free or non-ozone producing lamp, and it uses quartz tube that allows high optical transmission of 254nm UV light but blocks UV wavelength of 185nm. Technically speaking, about 95 percent of the emitted UV light has a peak wavelength of 254nm, which will directly inactivate bacteria, viruses and mold spores.

2. VH-Type UV Lamp

The VH-type UV lamp, where VH stands for very high ozone producing, is a kind of ozone generating UV germicidal lamp, and its glass tube is made of clear fused quartz to allow transmission of UV light with wavelengths of both 185nm and 254nm. The 185nm UV light reacts with oxygen gas in the air to form high-concentration ozone which works as a strong oxidant to kill microorganisms promptly.

3. L+VH Joint UV Lamp

As the self-explanatory name implies, our L+VH joint UV lamp makes use of a glass tube that is fabricated by combining L and VH glass through special processing steps. The tube shape, tube size and ozone content could be made-to-order as requested by customers, and this product will give standard UV output if the input power and input current are standard.

On the other hand, UV germicidal lamp could be divided on the basis of start mode.

1. Preheat UV Lamp

The preheat UV lamp is operated by a preheat start circuit, and the applied ballast is compact and less expensive. This preheat circuit should be connected to four pins of the lamp, and the run-up time is usually several seconds or a little longer. However, preheated germicidal lamps are enabled to start up instantly now, and this is realized by changing the circuit or with the help of electronic ballast.

In general, these preheated lamps are extensively applied in water treatment, air purification and surface disinfection.

2. Instant Start UV Lamp

The instant start UV lamp is able to start instantly as a result of two coil filaments which are set separately on two ends of the glass tube. The useful lamp life is determined by the electrode life, and is also affected by the frequency of starting.

The instant start lamps are widely used in air purification and duct system.

Available Model

1. T5 2P double ended germicidal lamps (preheat start)
2. T5 4P single ended germicidal lamps (preheat start)
3. T5 SP single ended germicidal lamps (instant start)
4. T6 2P double ended germicidal lamps (preheat start)
5. T8 2P double ended germicidal lamps (preheat start)

Technical Data

Table 1: Preheat Start Ozone Free Germicidal Lamp

Model	Dimensions (mm)			Lamp power (W)	Lamp current (mA)	Lamp voltage (V)	UV output at 1 meter		Rated life (h)
	Tube diameter	Length	Arc length				$\mu\text{W}/\text{cm}^2$	W	
GPH135T5L/4P	15	135	55	4	425	28	16	1.5	10000
GPH212T5L/4P	15	212	132	10	425	30	22	2.0	10000
GPH238T5L/4P	15	238	158	11	425	32	27	2.7	10000
GPH245T5L/4P	15	245	165	12	425	35	28	2.8	10000
GPH250T5L/4P	15	250	170	12	425	36	29	3.0	10000
GPH254T5L/4P	15	254	174	12	425	37	30	3.2	10000
GPH275T5L/4P	15	275	195	13	425	39	34	3.5	10000
GPH287T5L/4P	15	287	207	14	425	41	40	4.0	10000
GPH303T5L/4P	15	303	222	15	425	43	42	4.1	10000
GPH330T5L/4P	15	330	250	17	425	44	45	4.5	10000
GPH357T5L/4P	15	357	297	18	425	51	54	5.7	10000
GPH436T5L/4P	15	436	356	21	425	62	72	7.3	10000
GPH450T5L/4P	15	450	370	22	425	64	74	7.5	10000
GPH463T5L/4P	15	463	383	23	425	66	78	8.0	10000
GPH550T5L/4P	15	550	470	28	425	69	85	8.9	10000
GPH620T5L/4P	15	620	540	30	425	80	98	9.8	10000
GPH645T5L/4P	15	645	565	32	425	85	100	10.0	10000
GPH650T5L/4P	15	650	570	34	425	90	105	10.6	10000
GPH793T5L/4P	15	793	713	38	425	112	120	13.0	10000
GPH810T5L/4P	15	810	730	39	425	115	130	14.5	10000
GPH843T5L/4P	15	843	762	41	425	120	150	15.0	10000
GPH1148T5L/4P	15	1148	1068	55	425	165	180	22.0	10000
GPH1554T5L/4P	15	1554	1474	75	425	220	240	33.0	10000
GPH1630T5L/4P	15	1630	1550	79	425	231	250	34.5	10000