

Germicidal UV Lamps

For Disinfection, Oxidation and Ozone Generation

UVC radiation at 254nm has an intense germicidal effect. Micro-organisms, such as viruses, bacteria, fungi and yeasts are effectively destroyed without the addition of chemicals. The prime application is water and air disinfection in the food and beverage industry, in ventilation systems, households, waterworks or in sewage treatment plants.

UVC radiation at the wavelength of 185nm generates ozone and initiates oxidation processes of organic compounds. The main applications are air disinfection and purification, TOC reduction in water, ultra pure water preparation and swimming pool water.

Electrodes and Quartz

The quartz material and electrode design defines the quality and operating performance of the UV lamps. Lamps with instant start or pre-heat electrodes are available. L-Type quartz cuts off the UV radiation below 240nm and ensures that no ozone is produced. Lamps made of VH-Type quartz are ozone generating.

Instant Start Lamps

have a short run-up time. They are mainly used in continuous operation for water and air disinfection. A suitable ignition system is required for instant start.

Pre-heated Lamps

provide smooth electrode operation during run-up time. They are mainly used in applications with frequent on-off-switching.

High Output Lamps

have a specific electrode design. At the same lamp length their output is 30% to 60% higher as in conventional lamps.

U-shaped Lamps

produce a higher output in a compact design. They can be supplied as instant start or pre-heated lamps.

Lamp Operation

All models are operated with standard chokes or electronic power supplies which are also available.

Custom-built Lamps

Custom design UV lamps are produced in close co-operation with customers to meet their requirements. The benefits for the customer are:

- ? Optimal design of the system
- ? Proprietary lamps
- ? Individual bases
- ? Technical support in the design phase

Heraeus Noblelight offers the complete UV technology

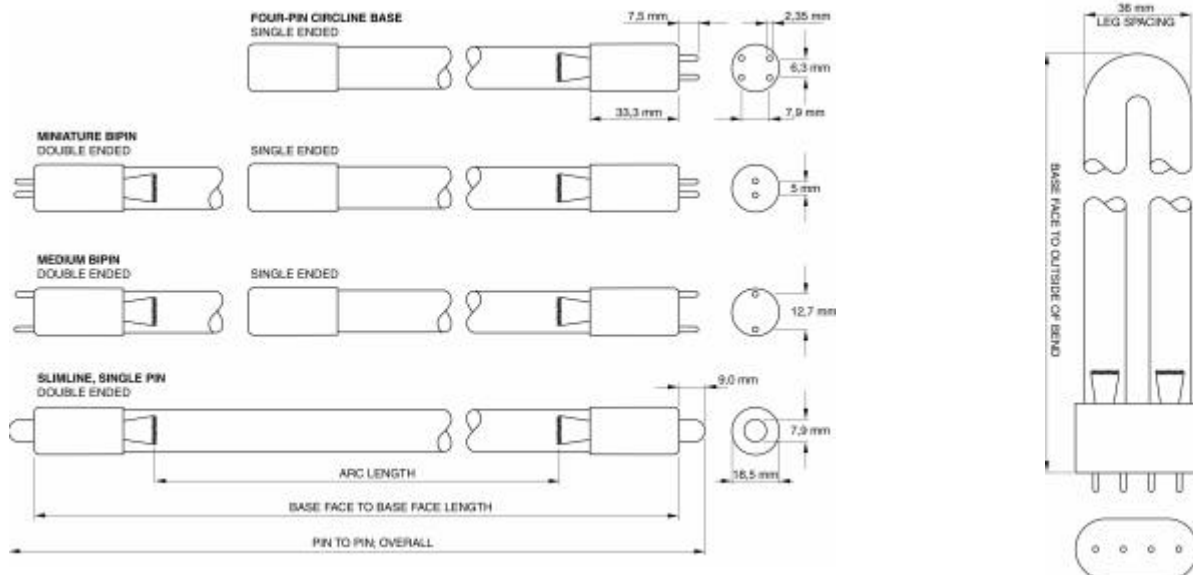
- ? Standard UVC lamps
- ? Ozone generating UVC lamps
- ? Goldspot[®] amalgam lamps
- ? DQ medium pressure UV lamps
- ? QC medium pressure UV lamps
- ? Doped medium pressure UV lamps
- ? Excimer UV lamps

Lamp Type	Total length mm	Arc length mm	Lamp Power Watt	Lamp Current mA	Lamp Voltage V (@50Hz)	UV Output Watt	UVC @1m $\mu\text{W}/\text{cm}^2$
Instant Start Lamps							
G10T5L	357	277	17	425	51	5,7	57
G10T5VH	357	277	17	425	55	5,7	57
GSL692T5L	692	612	33	425	98	12,1	114
G36T5L *	842	762	41	425	120	14,3	130
G36T5VH *	842	762	41	425	120	14,3	130
G64T5L	1554	1474	75	425	220	30,0	220
G64T5VH	1554	1474	75	425	220	30,0	220
G67T5VH	1630	1550	79	425	231	32,0	225
Pre-heated Start Lamps							
GPH212T5L	212	132	10	425	30	2,7	26
GPH287T5L	287	207	14	425	41	4,0	40
GPH287T5VH	287	207	14	425	41	4,0	40
GPH303T5L	303	223	15	425	43	4,3	43
GPH303T5VH	303	223	15	425	43	4,3	43
GPH356T5L	357	277	17	425	51	5,7	56
GPH356T5VH	357	277	17	425	51	5,7	56
GPH436T5L	436	356	21	425	62	7,3	72
GPH436T5VH	436	356	21	425	62	7,3	72
GPH793T5L	793	713	38	425	112	13,5	125
GPH793T5VH	793	713	38	425	112	13,5	125
U-shaped Lamps							
GU76-10T5VH	169	277	16	425	55	5,3	55
GU22-10T5L	186	277	16	425	55	5,3	55
GU22-390T5VH	390	699	36	425	100	12	105
GU76-802T5VH	391	711	37	425	108	12,8	110
GU76T5VH	412	762	39	425	120	13,8	120
GU22-36T5L	429	762	39	425	120	13,8	120

* G36T5 has also been historically called G36T6; the lamps are the same even though T6 indicates 19mm OD.

High Output Lamps

Lamp Type	Total length mm	Arc length mm	Lamp Power Watt	Lamp Current mA	Lamp Voltage V (@50Hz)	UV Output Watt	UVC @1m $\mu\text{W}/\text{cm}^2$
GPH 436T5/L/HO/4P	436	360	40	610	86	8	75
GPH 436T5/VH/HO/4P	436	360	40	610	86	8	75
GHO 36T5L	842	710	84-105	800-1000	120	27-34	250-280
GHO 36T5VH	842	710	84-105	800-1000	120	27-34	250-280
GPH 846T5/L/HO/4P	846	767	65	775	110	18	165
GPH 846T5/VH/HO/4P	846	767	65	775	110	19	165
GPH 893T5/L/HO/4P	893	815	65	750	114	19	170
GPH 893T5/VH/HO/4P	893	815	65	750	114	19	170
GHO 64T5/L	1554	1421	155-193	800-1000	220	45-58	380-486



Various pin configurations and base types are available. Please specify in your order.

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