

Special fluorescent lamps

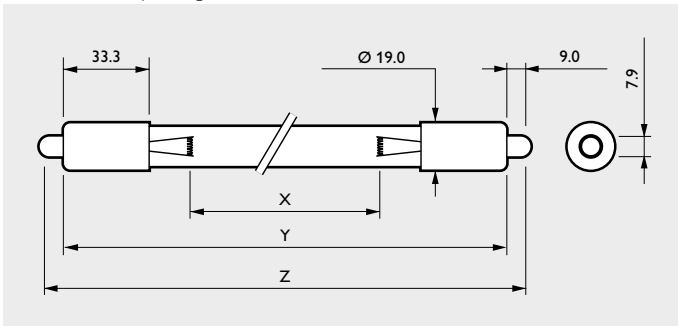
Disinfection (T5)



TUV 36/64 T5 single-pin



TUV 36/64 T5 4-pin, single-ended



Dimensions in mm

Type	X	Y	Z
Cap/base single-pin			
TUV 36T5 SP	762	842.4±3.0	860.4±3.5
TUV 64T5 SP	1473	1553.6±3.0	1571.6±3.5

TUV T5 disinfection lamps are low-pressure mercury vapour lamps consisting of a tubular glass envelope, emitting short-wave UV radiation with a radiation peak at 253.7 nm (UV-C) for germicidal action.

The glass absorbs the 185 nm ozone-forming line. A protective coating on the inside of the tube limits the depreciation of useful UV-C radiation. Philips Lighting's coated soft glass technology gives the following benefits:

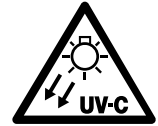
- unparalleled end-of-life UV-C output
- constant performance over 9000 hrs useful life
- No ozone generation

- An ultra-low mercury content of 5.5 mg Hg
- Ultem* high-temperature and UV-resistant lamp bases.

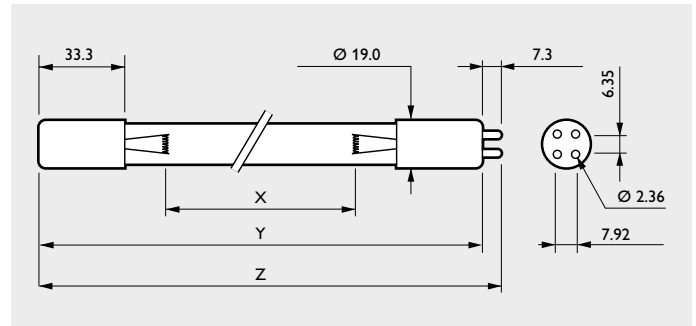
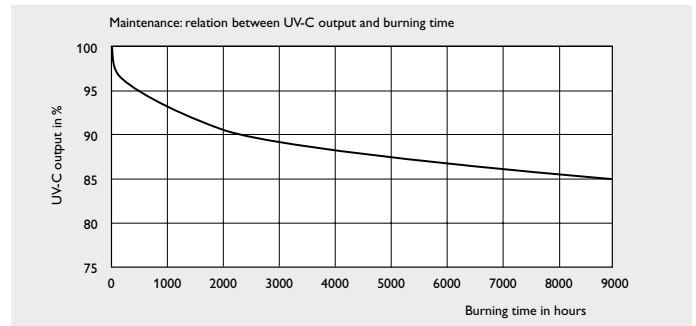
* Ultem is a G.E. trademark

Note

The UV-C radiation output of these lamps is indicated by the following warning sign.



Radiation of these lamps is harmful to eyes and skin. Installations with these lamps are to be screened off completely.



Type	X	Y	Z
Cap/base 4-pin, single-ended			
TUV 36T5 (HO) 4P-SE	762	842.4±3.0	849.5±3.5
TUV 64T5 (HO) 4P-SE	1473	1553.6±3.0	1561.0±3.5
TUV 11W 4P-SE	161	241.1±3.0	248.4±3.5
TUV 16W 4P-SE	237	317.3±3.0	324.6±3.5

Type	Cap/base	Lamp diameter mm	Lamp voltage V	Lamp current mA	Lamp wattage W	UV-C 100h W	Maintenance 9000h %	Useful life h	Ordering number	EOC
TUV 36T5 HO 4P-SE	4-pin single-ended	16	97 ¹⁾	800 ¹⁾	75 ¹⁾	25	80	9000	9279 721 04000	-
TUV 64T5 HO 4P-SE	4-pin single-ended	16	175 ¹⁾	800 ¹⁾	145 ¹⁾	48	80	9000	9279 710 04000	-
TUV 36T5 SP	single-pin	16	94 ¹⁾	425 ¹⁾	40 ¹⁾	15	85	9000	9279 700 04000	640369
TUV 64T5 SP	single-pin	16	176 ¹⁾	425 ¹⁾	75 ¹⁾	31	85	9000	9279 705 04000	640796
TUV 36T5 4P-SE	4-pin single-ended	16	94 ¹⁾	425 ¹⁾	40 ¹⁾	15	85	9000	9279 702 04000	642318
TUV 64T5 4P-SE	4-pin single-ended	16	176 ¹⁾	425 ¹⁾	75 ¹⁾	31	85	9000	9279 707 04000	642325
TUV 11W 4P-SE	4-pin single-ended	16	37 ²⁾	330 ²⁾	11 ²⁾	2.1	75	9000	9279 712 04000	-
TUV 16W 4P-SE	4-pin single-ended	16	46 ²⁾	350 ²⁾	13 ²⁾	3.4	75	9000	9279 714 04000	-

¹⁾ 25 kHz HF

²⁾ 50 Hz



PHILIPS

PHILIPS TUV, TUV-Long-Life

Definition

UV-C lamps of type TUV with main-emission at 253,7 nm.

Application

Inactivity of microorganisms (disinfection)
 Numerous photochemical und photobiological methods
 Irradiation specified photopolymers
 Analysis
 Stimulating fluorescence

Description

TUV-Hg-low pressure lamps are able to issue the 253,7 nm radiation with an efficiency of 30 % because of the use of special glasses.

They are electrically similar to their equivalent TL lamps (require the same ballasts and starters).

Ozone-forming radiation is not produced.

TUV Long-Life-Lamps

TUV-lamps are low pressure mercury lamps. These lamps have an envelope of special glass that filters out the ozone-forming radiation. The primary radiation generated by these lamps consists almost exclusively of a spectral line at 254 nm, which is close to the maximum for the germicidal effect.

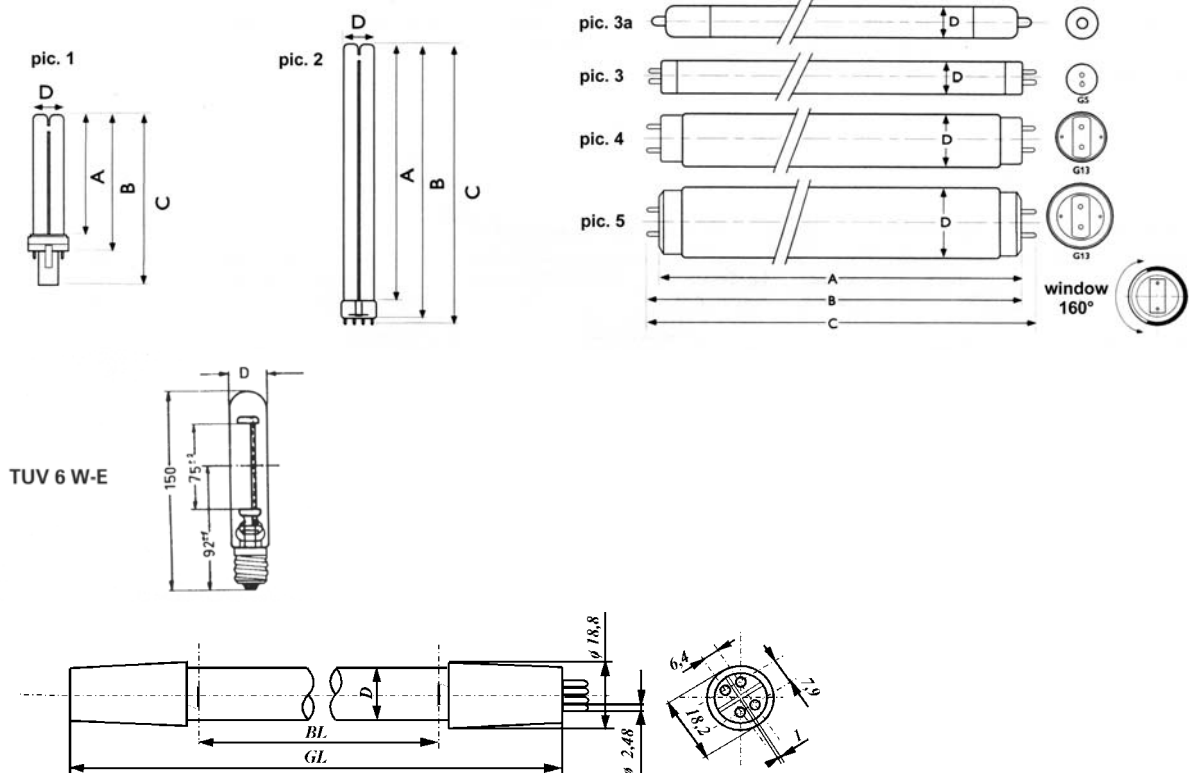
The special envelope inside means a very low radiation loss.

Attention!

The radiation (direct or indirect) is harmful to the health of all living creatures!

Instructions for lamps with UV radiation

Please take notice of application recommendations and health and safety standard. Do always protect skin and eyes against the ultraviolet rays.



Electrical and radiophysical data

type	lamp-power Wel	UVC- radiation Φ Wuv-c	useful life Lh	depreciatio n* %	lamp- voltage V	lamp- current A	turn on in connection with power supply and starter S10 or only electronic ballast (EVG)
TUV 6W-E	6	0,085	2500	25		0,027	directly on 220V
TUV 4W LL	4	0,6	8000	15	29,0	0,17	EC4/8 or EVG
TUV 6W LL	6	1,3	8000	15	44,0	0,16	EC4/8 or EVG
TUV 8W LL	8	2,0	8000	15	56,0	0,15	EC4/8 or EVG
TUV 10W LL	10	2,2	8000	15	46,0	0,23	
TUV 11W LL	11	3,0	8000	20	37,0	0,33	EC15 or EVG
TUV 15W LL	15	4,0	8000	15	51,0	0,34	EC 15
TUV 16W LL	16	4,3	8000	20	45,0	0,38	EC 20 or EVG
TUV 25W LL	25	4,7	8000	15	52,0	0,61	
TUV 30W LL	30	11,0	8000	15	100,0	0,37	BTA30L31
TUV 36W LL	36	14,6	8000	15	103,0	0,44	BTA36L31 or EVG
TUV 55W LL	55	18,0	8000	15	83,0	0,77	BTA58L31
TUV 75W LL	75	25,0	8000	15	108,0	0,81	EVG
TUV 115	115	34,0	5.000	15	92,0	1,50	2 x BTA58L31 parallel
TUV-R 115W	115	27,0	5.000	20	92,0	1,50	2 x BTA58L31 parallel
TUV 36W T5	40	15,0	8000	15	123,0	0,43	BTA36L31 or EVG 40 E
TUV 64W T5	65	30,0	8000	15	220,0	0,43	EVG 64
TUV PL-S 5 W LL	5	1,0	8000	15	34	0,18	
TUV PL-S 9 W LL	9	2,1	8000	15	60,0	0,17	LL13313**or EVG
TUV PL-S 11W LL	11	3,6	8000	15	89,0	0,16	LL13313**or EVG
TUV PL-L 18W LL	18	5,0	8000	15	60,0	0,37	BTA18L31, 1 or 2 flamed
TUV PL-L 36W LL	36	12,0	8000	15	105,0	0,44	BTA36L31, 1 or 2 flamed
TUV PL-L 55W LL	55	17,0	8000	15	103,0	0,54	EVG

* average depreciation after 5000 h, referred to the 100 h value

** Starter is integrated in the base