

# TUV PL-L - Compact solution for professional applications

## TUV PL-L

TUV PL-L lamps are compact UVC (germicidal) lamps used in professional water and air disinfection units. The compact size of the lamp allows for a small system design and design flexibility. TUV PL-L lamps offer almost constant UV output over their complete lifetime, for maximum security of disinfection and high system efficacy. Thanks to the single-ended lamp base, lamp replacement is easy.

### Benefits

- Security of effective disinfection over the useful lifetime of the lamp
- High system efficacy because it is not required to over-design the purification system to maintain effectiveness of disinfection

### Features

- Short-wave UV radiation with a peak at 253.7 nm (UVC) for disinfection purposes
- Protective inside coating ensures constant UV output over the complete lifetime of the lamp
- Special lamp glass filters out the 185 nm ozone-forming radiation
- High Output versions contain wind-chill correction for improved performance in moving air and reducing amount of required lamps
- High Output versions for optimum UVC output per lamp length, allowing for reduction of system size
- Warning sign on lamp indicates that the lamp radiates UVC

# TUV PL-L

## Application

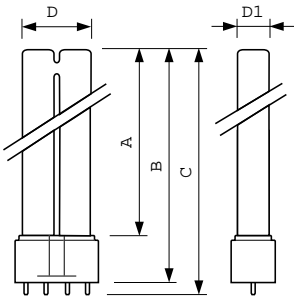
- Deactivation of bacteria, viruses and other micro-organisms
- Residential drinking water units
- Fish pond and process water units
- In-duct air treatment units
- Stand alone air purifiers
- Air disinfection systems in for example hospitals, universities and laboratories

## Versions



TUV PL-L

## Dimensional drawing



| Product                   | D1 (max) | D (max) | A (max) | B (max) | C (max) |
|---------------------------|----------|---------|---------|---------|---------|
| TUV PL-L 95W/4P HO 1CT/25 | 18 mm    | 38 mm   | 505 mm  | 530 mm  | 535 mm  |
| TUV PL-L 60W/4P HO 1CT/25 | 18 mm    | 38 mm   | 390 mm  | 415 mm  | 420 mm  |
| TUV PL-L 55W/4P HF 1CT/25 | 18 mm    | 38 mm   | 505 mm  | 530 mm  | 535 mm  |
| TUV PL-L 35W/4P HO 1CT/25 | 18 mm    | 39 mm   | 195 mm  | 220 mm  | 225 mm  |
| TUV PL-L 36W/4P 1CT/25    | 18 mm    | 38 mm   | 385 mm  | 410 mm  | 415 mm  |
| TUV PL-L 24W/4P UNP/50    | 18 mm    | 39 mm   | 290 mm  | 315 mm  | 320 mm  |
| TUV PL-L 24W/4P 1CT/25    | 18 mm    | 39 mm   | 290 mm  | 315 mm  | 320 mm  |
| TUV PL-L 18W/4P 1CT/25    | 18 mm    | 39 mm   | 195 mm  | 220 mm  | 225 mm  |

### General Information

|                   |              |
|-------------------|--------------|
| Cap-Base          | 2G11         |
| Useful Life (Nom) | 9000 h       |
| Main Application  | Disinfection |

### Light Technical

|                                       |      |
|---------------------------------------|------|
| Color Code                            | TUV  |
| Color Designation                     | -    |
| Lumen Depreciation At Useful Lifetime | 15 % |

### Mechanical and Housing

|            |       |
|------------|-------|
| Bulb Shape | 2xT16 |
|------------|-------|

## Approval and Application

## TUV PL-L

| Order Code   | Full Product Name      | Mercury (Hg) Content (Nom) |
|--------------|------------------------|----------------------------|
| 927903004007 | TUV PL-L 18W/4P 1CT/25 | 4.4 mg                     |
| 927903204007 | TUV PL-L 24W/4P 1CT/25 | 4.4 mg                     |
| 927903204016 | TUV PL-L 24W/4P UNP/50 | 4.4 mg                     |
| 927903404007 | TUV PL-L 36W/4P 1CT/25 | -                          |

| Order Code   | Full Product Name         | Mercury (Hg) Content (Nom) |
|--------------|---------------------------|----------------------------|
| 927904204007 | TUV PL-L 35W/4P HO 1CT/25 | 4.4 mg                     |
| 927908704007 | TUV PL-L 55W/4P HF 1CT/25 | 4.4 mg                     |
| 927909004007 | TUV PL-L 60W/4P HO 1CT/25 | 4.4 mg                     |
| 927909804007 | TUV PL-L 95W/4P HO 1CT/25 | 4.4 mg                     |

### Operating and Electrical

| Order Code   | Full Product Name         | Lamp          |               | Power         |
|--------------|---------------------------|---------------|---------------|---------------|
|              |                           | Current (Nom) | Voltage (Nom) | (Rated) (Nom) |
| 927903004007 | TUV PL-L 18W/4P 1CT/25    | 0.37 A        | 60 V          | 18 W          |
| 927903204007 | TUV PL-L 24W/4P 1CT/25    | 0.345 A       | 87 V          | 24 W          |
| 927903204016 | TUV PL-L 24W/4P UNP/50    | 0.345 A       | 87 V          | 24 W          |
| 927903404007 | TUV PL-L 36W/4P 1CT/25    | 0.44 A        | 105 V         | 36 W          |
| 927904204007 | TUV PL-L 35W/4P HO 1CT/25 | 0.85 A        | 42 V          | 35 W          |

| Order Code   | Full Product Name         | Lamp          |               | Power         |
|--------------|---------------------------|---------------|---------------|---------------|
|              |                           | Current (Nom) | Voltage (Nom) | (Rated) (Nom) |
| 927908704007 | TUV PL-L 55W/4P HF 1CT/25 | 0.54 A        | 103 V         | 55 W          |
| 927909004007 | TUV PL-L 60W/4P HO 1CT/25 | 0.800 A       | 84 V          | 60 W          |
| 927909804007 | TUV PL-L 95W/4P HO 1CT/25 | 0.8 A         | 115 V         | 90 W          |

### General Information

| Order Code   | Full Product Name      | System Description |
|--------------|------------------------|--------------------|
| 927903004007 | TUV PL-L 18W/4P 1CT/25 | -                  |
| 927903204007 | TUV PL-L 24W/4P 1CT/25 | -                  |
| 927903204016 | TUV PL-L 24W/4P UNP/50 | -                  |
| 927903404007 | TUV PL-L 36W/4P 1CT/25 | -                  |

| Order Code   | Full Product Name         | System Description |
|--------------|---------------------------|--------------------|
| 927904204007 | TUV PL-L 35W/4P HO 1CT/25 | -                  |
| 927908704007 | TUV PL-L 55W/4P HF 1CT/25 | High Frequency     |
| 927909004007 | TUV PL-L 60W/4P HO 1CT/25 | -                  |
| 927909804007 | TUV PL-L 95W/4P HO 1CT/25 | High Frequency     |

### UV

| Order Code   | Full Product Name      | UV-C Radiation |
|--------------|------------------------|----------------|
| 927903004007 | TUV PL-L 18W/4P 1CT/25 | 5.5 W          |
| 927903204007 | TUV PL-L 24W/4P 1CT/25 | 7.1 W          |
| 927903204016 | TUV PL-L 24W/4P UNP/50 | 7.1 W          |
| 927903404007 | TUV PL-L 36W/4P 1CT/25 | 12.0 W         |

| Order Code   | Full Product Name         | UV-C Radiation |
|--------------|---------------------------|----------------|
| 927904204007 | TUV PL-L 35W/4P HO 1CT/25 | 11.0 W         |
| 927908704007 | TUV PL-L 55W/4P HF 1CT/25 | 17.0 W         |
| 927909004007 | TUV PL-L 60W/4P HO 1CT/25 | 19.0 W         |
| 927909804007 | TUV PL-L 95W/4P HO 1CT/25 | 27.0 W         |

