

Light is OSRAM

## Light is purifying PURITEC® HNS® germicidal lamps for environmentally friendly disinfection

Most people don't think of light as a means of purifying or disinfecting, but special germicidal lamps emit high intensity ultraviolet light that purifies air, water, and surfaces without the use of harsh chemicals that are harmful to the environment. For effective purification, the wavelength and intensity of the irradiance is critical. OSRAM PURITEC HNS germicidal lamps provide peak intensity at 254nm that is ideal for highly effective sterilization of water, air, and surfaces.



### Air purification

Ultraviolet (UV) purification is currently the most effective method to clean the air of biological pollutants such as bacteria, viruses and fungal spores. UV germicidal lamps can be installed in ventilation ducts to clean the air passing through them. UV air purification is more economical and efficient than other air filtration and cleaning methods.

### Water purification

Often, water must be rid of pathogenic microorganisms to become safe for drinking. Ultraviolet radiation is employed to change the DNA structure of the microorganisms, either by killing the bacteria immediately or rendering them unable to breed. Because UV purification is a physical disinfection method without any harmful chemicals, it does not produce any secondary pollution. This resolution results in no smelly odor or byproducts in the water.

### Surface disinfection

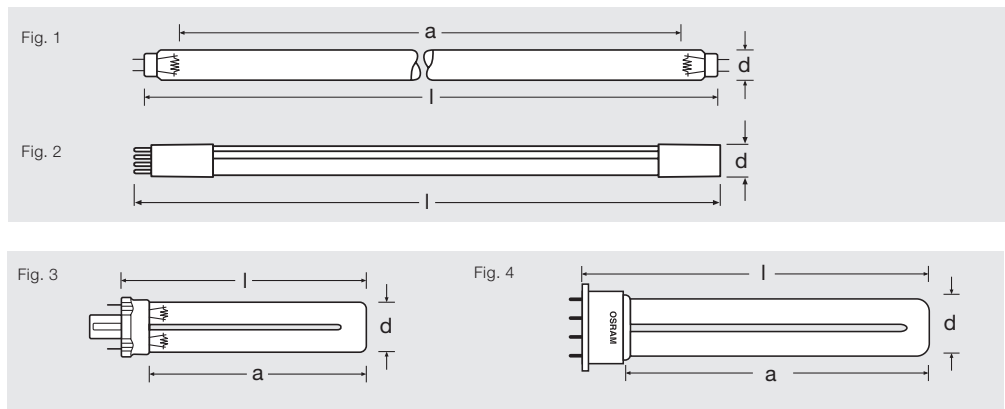
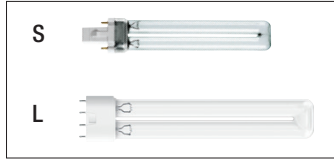
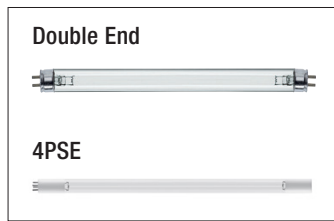
For packaging pharmaceuticals and food, in aseptic zones in hospitals, and for surface cleaning of equipment and instruments, objects are exposed directly to UV radiation for disinfection.

### Your benefits:

- Effective, environmentally friendly disinfection without chemicals
- Low mercury content
- Ozone free
- Long economical life due to special high-quality coating



## Technical Data



| Product Description                                  | Product Number | Watts     | Volts     | Current (A) | Radiation Flux (W) @ 254 nm | Length l (mm) | Distance a (mm) | Diameter d (mm) | Base       | Lifetime (hrs) | Case Qty  | Figure No. |
|--|----------------|-----------|-----------|-------------|-----------------------------|---------------|-----------------|-----------------|------------|----------------|-----------|------------|
| <b>OSRAM PURITEC® HNS® linear low-pressure lamps</b> |                |           |           |             |                             |               |                 |                 |            |                |           |            |
| G4T5/OF  | 23397          | 4         | 29        | 0.17        | 0.9                         | 136           | 79              | 16              | G5         | 6000           | 25        | 1          |
| G6T5/OF  | 23399          | 6         | 42        | 0.16        | 1.7                         | 212           | 154             | 16              | G5         | 9000           | 25        | 1          |
| G8T5/OF  | 21061          | 8         | 56        | 0.15        | 2.0                         | 288           | 230             | 16              | G5         | 9000           | 25        | 1          |
| HNS 11W G5   | 23354          | 11        | 37        | 0.33        | 2.5                         | 212           | 154             | 16              | G5         | 9000           | 25        | 1          |
| G16T5/OF   | ***            | 16        | 43        | 0.40        | 4.0                         | 288           | 230             | 16              | G5         | 9000           | 25        | 1          |
| G15T8/OF   | 21259          | 15        | 55        | 0.33        | 4.9                         | 437           | 367             | 26              | G13        | 9000           | 25        | 1          |
| G25T8/OF   | 55197          | 25        | 46        | 0.60        | 6.9                         | 437           | 367             | 26              | G13        | 9000           | 25        | 1          |
| G30T8/OF   | 21080          | 30        | 96        | 0.37        | 12.0                        | 894           | 824             | 26              | G13        | 9000           | 25        | 1          |
| G36T8/OF   | ***            | 36        | 103       | 0.44        | 15.0                        | 1200          | 1135            | 26              | G13        | 9000           | 25        | 1          |
| <b>G55T8/OF</b>                                      | <b>21283</b>   | <b>55</b> | <b>93</b> | <b>0.77</b> | <b>18.0</b>                 | <b>895</b>    | <b>824</b>      | <b>26</b>       | <b>G13</b> | <b>9000</b>    | <b>25</b> | <b>1</b>   |
| G16T5L/4PSE  | 55030          | 16        | 43        | 0.40        | 4.0                         | 328           | -               | 19              | 4 PIN      | 9000           | 40        | 2          |
| G20T5L/4PSE  | 55031          | 20        | 45        | 0.45        | 6.0                         | 438           | -               | 19              | 4 PIN      | 9000           | 40        | 2          |
| G36T5L/4PSE  | 55032          | 36        | 94        | 0.43        | 14.0                        | 853           | -               | 19              | 4 PIN      | 9000           | 40        | 2          |
| <b>OSRAM PURITEC® HNS® S low-pressure lamps</b>      |                |           |           |             |                             |               |                 |                 |            |                |           |            |
| GCF5DS/G23/SE/OF                                     | 23396          | 5         | 35        | 0.18        | 1.3                         | 83            | 63              | 27              | G23        | 8000           | 10        | 3          |
| GCF7DS/G23/SE/OF                                     | 20390          | 7         | 37        | 0.17        | 1.8                         | 111           | 91              | 28              | G23        | 8000           | 10        | 3          |
| GCF9DS/G23/SE/OF                                     | 21062          | 9         | 60        | 0.17        | 2.5                         | 142           | 122             | 28              | G23        | 8000           | 10        | 3          |
| GCF11DS/G23/SE/OF                                    | 23398          | 11        | 75        | 0.15        | 3                           | 211           | 191             | 28              | G23        | 8000           | 10        | 3          |
| <b>OSRAM PURITEC® HNS® L low-pressure lamps</b>      |                |           |           |             |                             |               |                 |                 |            |                |           |            |
| GFT18DL/2G11/SE/OF                                   | 21054          | 18        | 58        | 0.38        | 5.5                         | 225           | 195             | 40              | 2G11       | 9000           | 10        | 4          |
| GFT24DL/2G11/SE/OF                                   | 20849          | 24        | 87        | 0.34        | 7.3                         | 315           | 285             | 40              | 2G11       | 8000           | 10        | 4          |
| GFT36DL/2G11/SE/OF                                   | 23392          | 36        | 106       | 0.44        | 10.8                        | 408           | 385             | 40              | 2G11       | 9000           | 10        | 4          |
| GFT55DL/2G11/SE/OF                                   | 23401          | 55        | 101       | 0.55        | 17                          | 530           | 500             | 38              | 2G11       | 9000           | 10        | 4          |
| GFT60DL/2G11/SE/OF                                   | 23402          | 60        | 82        | 0.80        | 19                          | 415           | 380             | 40              | 2G11       | 9000           | 10        | 4          |
| GFT95DL/2G11/SE/OF                                   | 23403          | 95        | 115       | 0.80        | 27                          | 530           | 500             | 40              | 2G11       | 9000           | 10        | 4          |

\*\*\*Available upon special request. Please contact our customer service group at number below or your local OSRAM sales rep.

**WARNING:** To prevent possible serious injury, eyes and skin should not be exposed to direct or reflected ultraviolet light emitted by this lamp. This lamp is in Risk Group 3 per ANSI/IESNA RP-27.3-96. Adequate protection should be provided by clothing, gloves, opaque materials, and ordinary window glass. Although this lamp will operate in standard fluorescent fixtures, it should not be used for general lighting applications.

Additional types may be available on our website [www.osram.us/germicidal](http://www.osram.us/germicidal).

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