

## Germicidal UV Lamps

### Standard Low Pressure Lamps from Heraeus Noblelight

With high-energy UV light contaminated water, air and surfaces can be disinfected and cleaned safely.

Heraeus Noblelight offers a broad range of germicidal UV lamps that are manufactured from high quality quartz glass. Standard lamps and customized lamps are available.

- The quartz material and electrode design defines the quality and operating performance of the UV lamps.
- 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.

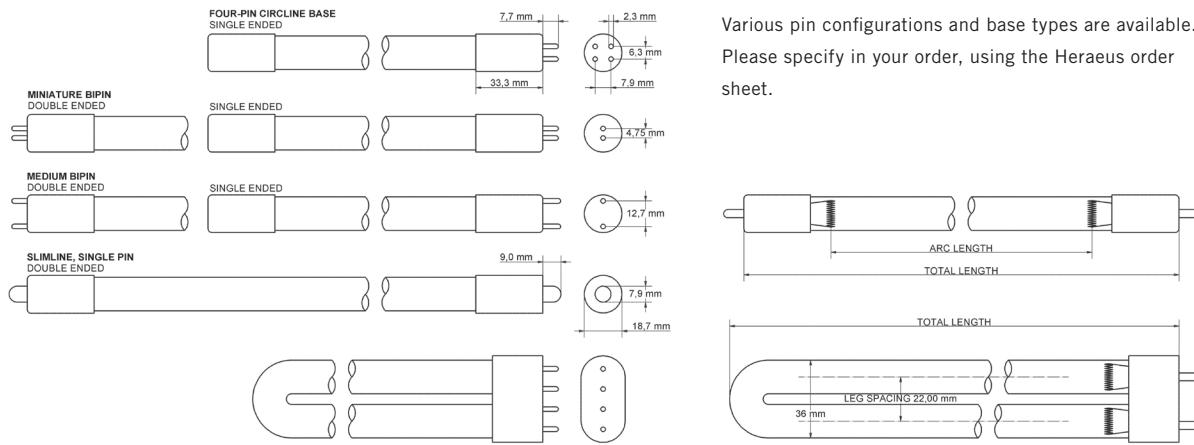
- High Output Lamps have a specific electrode design. Their output is 30% to 60% higher than the output of conventional lamps of the same lamp length.

- U-shaped Lamps produce a higher output in a compact design.
- All lamps are available as instant start or pre-heated lamps.
- Custom design UV lamps are always produced in close co-operation with customers to meet their requirements. Optimal design of the system, technical support in the design phase, proprietary lamps with individual bases are safe for the customer's spare lamp business.
- Typical lamp life is 9000 hours. Lamp life in hours and UVC output in Watts were measured with lamps operated under laboratory conditions. For reference purposes only. Actual life heavily depends on operating conditions.

## Summary of Standard Germicidal Lamps

| Lamp Type                  | Total length<br>mm | Arc length<br>mm | Lamp power<br>Watt | Lamp current<br>mA | Lamp Voltage<br>V (@50Hz) | UVC Output<br>Watt | UVC@1m<br>μW/cm <sup>2</sup> |
|----------------------------|--------------------|------------------|--------------------|--------------------|---------------------------|--------------------|------------------------------|
| <b>Tubular Lamps</b>       |                    |                  |                    |                    |                           |                    |                              |
| GPH135T5L/4                | 135                | 55               | 5                  | 425                | 15                        | 1,2                | 10                           |
| GPH135T5VH/4               | 135                | 55               | 5                  | 425                | 15                        | 1,2                | 10                           |
| GPH150T5L/4                | 150                | 70               | 6                  | 425                | 18                        | 1,5                | 14                           |
| GPH150T5VH/4               | 150                | 70               | 6                  | 425                | 18                        | 1,5                | 14                           |
| GPH212T5L/4                | 212                | 132              | 10                 | 425                | 30                        | 2,7                | 26                           |
| GPH212T5VH/MBP SE          | 212                | 132              | 10                 | 425                | 30                        | 2,7                | 26                           |
| GPH212T5VH/4               | 212                | 132              | 10                 | 425                | 30                        | 2,7                | 26                           |
| GPH237T5L/4                | 237                | 157              | 11                 | 425                | 30                        | 3,0                | 30                           |
| GPH265T5L/4                | 265                | 185              | 12                 | 425                | 35                        | 3,4                | 33                           |
| GPH265T5VH/4               | 265                | 185              | 12                 | 425                | 35                        | 3,4                | 33                           |
| GPH287T5L/4                | 287                | 207              | 14                 | 425                | 41                        | 4,0                | 40                           |
| GPH287T5VH/4               | 287                | 207              | 14                 | 425                | 41                        | 4,0                | 40                           |
| GPH317T5L/4 (=TUV16WT5/4)  | 317                | 237              | 16                 | 425                | 46                        | 4,8                | 48                           |
| GPH357T5L/4                | 357                | 277              | 17                 | 425                | 51                        | 5,7                | 56                           |
| GPH357T5VH/4               | 357                | 277              | 17                 | 425                | 51                        | 5,7                | 56                           |
| GPH436T5L/4                | 436                | 356              | 21                 | 425                | 62                        | 7,3                | 72                           |
| GPH436T5L/MBP              | 436                | 356              | 21                 | 425                | 62                        | 7,3                | 72                           |
| GPH436T5VH/4               | 436                | 356              | 21                 | 425                | 62                        | 7,3                | 72                           |
| GPH793T5L/4                | 793                | 713              | 38                 | 425                | 112                       | 13,5               | 125                          |
| GPH793T5VH                 | 793                | 713              | 38                 | 425                | 112                       | 13,5               | 125                          |
| G36T5L Single Pin*         | 842                | 762              | 41                 | 425                | 120                       | 14,3               | 130                          |
| G36T5L/4 *                 | 842                | 762              | 41                 | 425                | 120                       | 14,3               | 130                          |
| G36T5VH/4 *                | 842                | 762              | 41                 | 425                | 120                       | 14,3               | 130                          |
| G64T5L/4                   | 1554               | 1474             | 75                 | 425                | 220                       | 30,0               | 220                          |
| G64T5L MBP SE              | 1554               | 1474             | 75                 | 425                | 220                       | 30,0               | 220                          |
| G64T5L Single Pin          | 1554               | 1474             | 75                 | 425                | 220                       | 30,0               | 220                          |
| G64T5VH/4                  | 1554               | 1474             | 75                 | 425                | 220                       | 30,0               | 220                          |
| G64T5VH Single Pin         | 1554               | 1474             | 75                 | 425                | 220                       | 30,0               | 220                          |
| GPH1630T5VH MBP (=G67T5VH) | 1630               | 1550             | 79                 | 425                | 231                       | 32,0               | 225                          |
| <b>U-shaped Lamps</b>      |                    |                  |                    |                    |                           |                    |                              |
| GU22-10T5L                 | 186                | 277              | 16                 | 425                | 55                        | 5,3                | 55                           |
| GU22-390T5VH               | 390                | 699              | 36                 | 425                | 100                       | 12                 | 105                          |
| GU22-36T5L                 | 429                | 762              | 39                 | 425                | 120                       | 13,8               | 120                          |
| <b>High Output Lamps</b>   |                    |                  |                    |                    |                           |                    |                              |
| GH036T5L/4 *               | 842                | 710              | 80                 | 880                | 100                       | 27,0               | 250                          |
| GH036T5VH/4 *              | 842                | 710              | 80                 | 880                | 100                       | 27,0               | 250                          |
| GH064T5L/4                 | 1554               | 1440             | 160                | 880                | 200                       | 49,0               | 380                          |
| GH064T5VH/4                | 1554               | 1440             | 160                | 880                | 200                       | 49,0               | 380                          |

Custom lamps are available on request. Please contact us.



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