



**HATENBOERWATER**

*Fresh in water since 1906.*

## Demitec-UV<sup>®</sup> water disinfection system

### GS 115

### Technical specification sheet

#### UV chamber type GS

|  |   |
|--|---|
| Material:                              | stainless steel 316L<br>(1.4404)            |
| Roughness, internal:                   | max. 0.6 to<br>1.0 micron                   |
| Connections:                           | 1" BSP-M                                    |
| Shape of construction:                 | L-shape                                     |
| Mounting:                              | vertical (alt. horizontal)                  |
| Max. water pressure:                   | 6 bar (higher water<br>pressure on request) |
| Number of UV lamps and quartz sleeves: | 1   |
| UV lamp connection:                    | single-ended                                |
| Quartz sleeve(s):                      | single-ended                                |
| Fixation of quartz sleeves:            | double-sides fixed                          |
| Type of quartz, standard:              | Q200  |
| Protection class:                      | IP54  |
| External coating:                      | option 'CxG'                                |
| UV sensor:                             | option 'Us1'                                |
| Anti-fouling mechanism, manual:        | no  |
| Anti-fouling mechanism, electrical:    | no  |
| Dimensions:                            | see drawing                                 |

#### Control cabinet (standard)

|  |                                  |
|--|----------------------------------|
| Material:  | plastic                          |
| Dimensions at standard power supply (h x w x d): | 200 x 200 x 130 mm               |
| Power supply, standard:                          | 230Volt 1L+N                     |
| Connected power:                                 | 30W                              |
| Frequency:                                       | 50 or 60 Hz                      |
| Protection class:                                | IP54                             |
| Mounting:  | direct on irradiation<br>chamber |
| Electrical cables between chamber and cabinet:   | included                         |

#### Sizes of control cabinet in other material (h x w x d)

|                      |                    |
|----------------------|--------------------|
| Stainless steel 304: | 400 x 400 x 200 mm |
| Painted steel:       | 400 x 400 x 200 mm |

#### Controller type, without option 'UV sensor' (Lambda 1)

|   |          |
|---|----------|
| Hour counter, 'system ON',<br>non-resettable: | included |
| ON/OFF switch:                                | included |
| Lamp ON/OFF indication, visual:               | included |

#### In case of option 'UV sensor'

|                                |          |
|--------------------------------|----------|
| Alarm contact (3A):            | included |
| Indication 'good/low/warning': | included |
| Low UV output signal:          | included |
| UV intensity output (4-20 mA): | included |

#### Controller type, with option 'UV sensor' (Lambda 2)

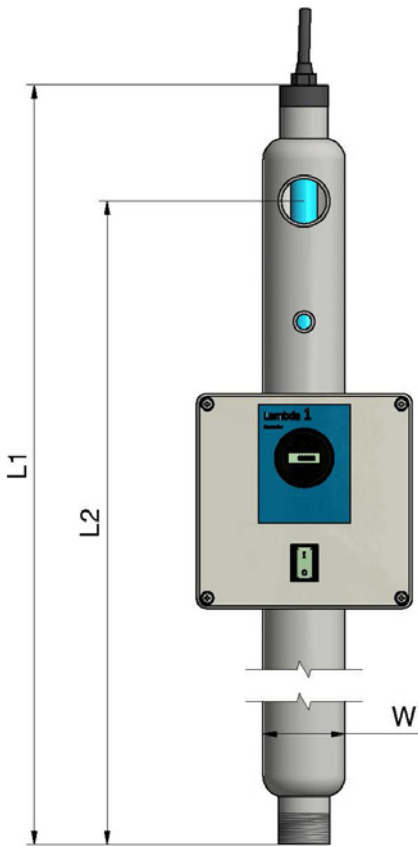
|   |                    |
|---|--------------------|
| ON/OFF switch:                          | included           |
| Individual lamp failure detection:      | included           |
| Individual lamp status:                 | included           |
| Individual lamp control:                | included           |
| Hour counter:                           | included           |
| Remote ON/OFF:                          | option             |
| Dimensions control cabinet (h x w x d): | 400 x 400 x 200 mm |
| Material control cabinet:               | painting steel     |



# Demitec-UV<sup>®</sup> water disinfection system

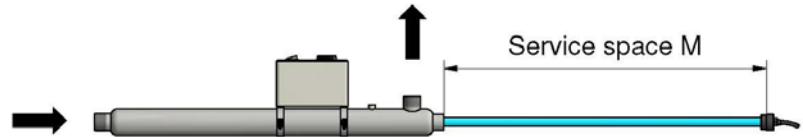
GS 115

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### Dimensions

L-shape of UV irradiation chamber installed vertically and horizontally.



| Connection size 1" BSP-M          | mm  |
|-----------------------------------|-----|
| L1 = distance top-bottom          | 495 |
| L2 = distance between connections | 375 |
| M = free space for maintenance    | 350 |
| W = diameter of chamber           | 76  |

Capacity table in m<sup>3</sup>/h\* as a function of the expected lamp life:

| UV dose                 | 25 mJ/cm <sup>2</sup> |      |     |     |     | 40 mJ/cm <sup>2</sup> |      |     |     |     |
|-------------------------|-----------------------|------|-----|-----|-----|-----------------------|------|-----|-----|-----|
|                         | 100%                  | 95%  | 90% | 85% | 80% | 100%                  | 95%  | 90% | 85% | 80% |
| UV transmission (%10mm) |                       |      |     |     |     |                       |      |     |     |     |
| 8.000 – 10.000 hours    | 1.5                   | 1.35 | 1.2 | 1.1 | 1.0 | 0.9                   | 0.85 | 0.8 | 0.7 | 0.6 |

Higher or lower UV dose can be calculated from above table or on request to be indicated.

### Maximum hydraulic capacity\*\*

Connection size  
1" BSP

Capacity in m<sup>3</sup>/h  
5

\*\* Max capacity is based on a maximum velocity over the in and outlet connections of abt. 3 m/s.



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