



**HATENBOERWATER**

*Fresh in water since 1906.*

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

### GS 110

### Technical specification sheet

#### UV chamber type GS

Material:	stainless steel 316L (1.4404)
Roughness, internal:	max. 0.6 to 1.0 micron
Connections:	1" BSP-M
Shape of construction:	L-shape
Mounting:	vertical (alt. horizontal)
Max. water pressure: pressure on request)	6 bar (higher water)
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

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

Hour counter, 'system ON', 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:	painted steel

#### 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:	20W
Frequency:	50 or 60 Hz
Protection class:	IP54
Mounting:	direct on irradiation chamber
Electrical cables between chamber and cabinet:	included



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

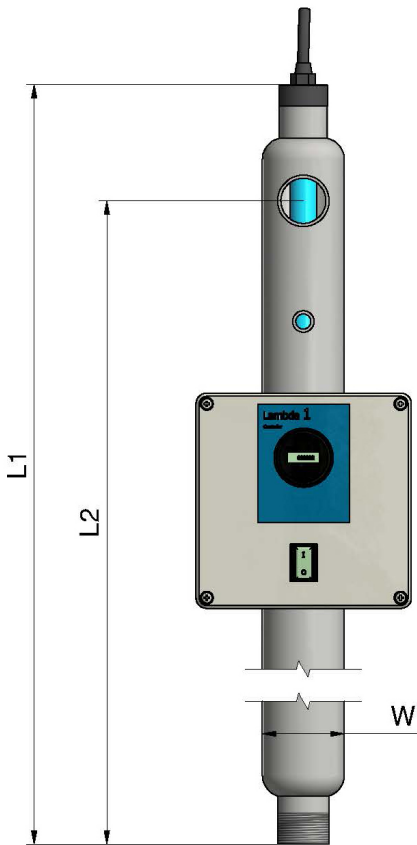
Stainless steel 304:	400 x 400 x 200 mm
Painted steel:	400 x 400 x 200 mm



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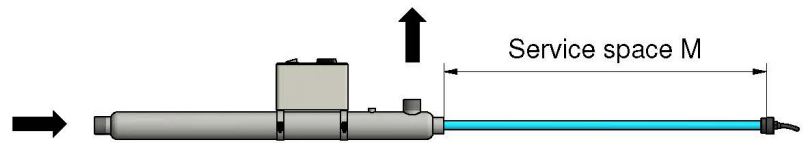
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### Dimensions

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	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.45	0.4

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

### Maximum hydraulic capacity\*\*

Connection size	Capacity in m <sup>3</sup> /h
1" BSP	5

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



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