

Demitec-UV®

BL 1125/L3

Technical specification sheet

UV chamber type BL

Material :	stainless steel 316L (1.4404) (optional: HDPE)
Roughness, internal:	max. 0.6 to 1.0 micron
Shape of construction:	L-shape
Connection, standard:	NW80 (optional: 2", 3", NW40 upto NW100)
Mounting:	vertical (alt. horizontal)
Max. water pressure:	10 bar (higher water pressure on request)
Number of UV lamps and quartz sleeves:	1
UV lamp connection:	one-sided
Quartz sleeve(s):	one-side closed
Fixation of quartz sleeves:	two-sides fixed
Type of quartz, standard:	Q200
Protection class:	IP54
External coating:	option 'CxBL'
UV sensor:	option 'Us1'
Anti-fouling mechanism, manual:	option 'AF-McBL'
Anti-fouling mechanism, electrical:	option 'AF-EcBL' (incl. Lambda 4 controller)
Drain/de-aeration connection (1/4"):	included
Flange construction for easy access into the chamber:	included
Dimensions:	see drawing

Controller type (Lambda 3)

Display for read-out:	2 x 16 character read-out
Remote control and Remote ON/OFF:	included
Individual lamp failure detection, lamp status and control:	included
Hour counter, 'system ON', non-resettable:	included
Hour counter, 'lamp(s) ON' resettable:	included
Warning messages for lamp failure and maintenance:	included
Input for flow meter, variable (4-20mA) or fixed:	included
PFCs for UV WARNING, ALARM, READY, MAINTENANCE:	included
Water temperature input and protection:	included
Cabinet temperature warning and alarm:	included

Control cabinet (standard)

Material:	painting steel
Dimensions at standard power supply (h x w x d):	600 x 600 x 200 mm
Power supply, standard:	230Volt 1L+N
Connected power:	200W
Power supply (110V, 230V 2L or 400V 3L):	option
Frequency:	50 or 60 Hz
Protection class:	IP54
Mounting:	wall or skid
Electrical cables between chamber and cabinet:	included (5 meters)

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

Stainless steel 304:	400 x 400 x 200 mm
Plastic:	500 x 500 x 320 mm

In case of option 'UV sensor'

UV dose read-out (mJ/cm ² or J/m ²):	included
Alarm contact (3A):	included
Low UV output signal:	included
Set points 'minimum UV dose' and 'UV dose warning':	included
4-20mA UV intensity output :	included

In case of option 'Anti-fouling mechanism 'AF-EcBL'

Lambda 4 controller:	included
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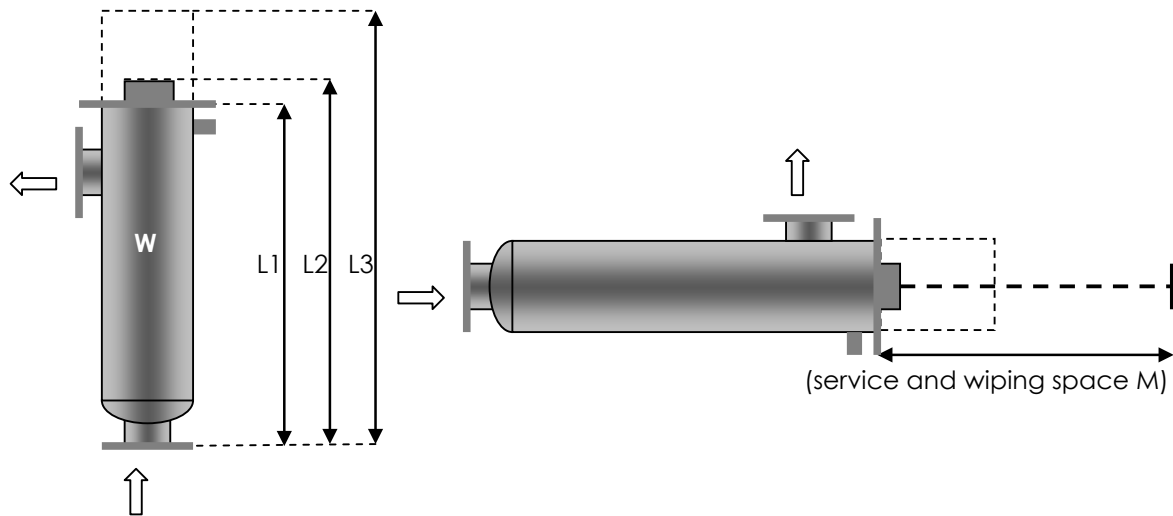
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Dimensions



Connection (standard NW80 DIN2576)	mm
L1 = distance top-bottom, without anti-fouling mechanism	1035
L2 = distance top-bottom, with manual anti-fouling mechanism	1170
L3 = distance top-bottom, with electrical anti-fouling mechanism	1320
M = service and wiping space	1500
W = outer diameter	204

Capacity table in m³/h* as a function of the expected lamp life:

UV dose	25 mJ/cm ²					40 mJ/cm ²				
	100%	95%	90%	85%	80%	100%	95%	90%	85%	80%
4.000 – 6.000 hours	82	62	49	41	33	52	39	31	25	21
6.000 – 8.000 hours	72	54	43	35	29	45	34	27	22	18
8.000 – 10.000 hours	62	46	37	30	25	39	29	23	19	16

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 ³ /h
NW40	13
NW50/2" BSP	21
NW65	36
3"	49
NW80	54
NW100	85

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