BM1125
Demitec® UV disinfection
Using UV-light for reliable water

UV chamber type BM

Material	:	stainless steel 316L (1.4404) - optional: HDPE
Roughness, internal	:	max. 0.6 to 1.0 micron
Shape of construction	:	L-shape
Connection, standard	:	1½" BSP-M (optional: 1" and 2")
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 'CxBM'
UV sensor	:	option 'Us1'
Anti-fouling mechanism, manual	:	option 'AF-McBM'
Anti-fouling mechanism, electrical	:	option 'AF-EcBM'
Drain/de-aeration connection (¼")	:	included
Flange construction for easy access into the chamber	:	included
Dimensions	:	see drawing

Control cabinet (standard)

Material	:	painted steel
Dimensions at standard power supply (h x w x d)	:	400 x 400 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

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Controller type (Lambda 2)

ON/OFF-switch	:	included
Individual lamp failure detection	:	included
Individual lamp control	:	included
Hour counter	:	included
'UV system on' indication	:	included
Remote ON/OFF	:	option

Technical specifications options

'UV sensor'

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

'AF-EcBM'

Lambda 4	:	see 'Controllers overview Lambda 4'
Dimensions control cabinet	:	600 x 600 x 200 mm

Optional controller

Lambda 3 controller	:	see 'Controllers overview Lambda 3'
Dimensions control cabinet	:	600 x 600 x 200 mm

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

UV dose	25 mJ/cm²					40 mJ/cm²				
UV transmission (%10mm)	100%	95%	90%	85%	80%	100%	95%	90%	85%	80%
4,000 – 6,000 hours	42	36	31	29	25	26	22.5	20	17.5	15
6,000 – 8,000 hours	37	31.5	27	24.5	22	23	19.5	17	15.5	14
8,000 – 10,000 hours	31	27	24	20.5	19	20	16.5	15	13	12

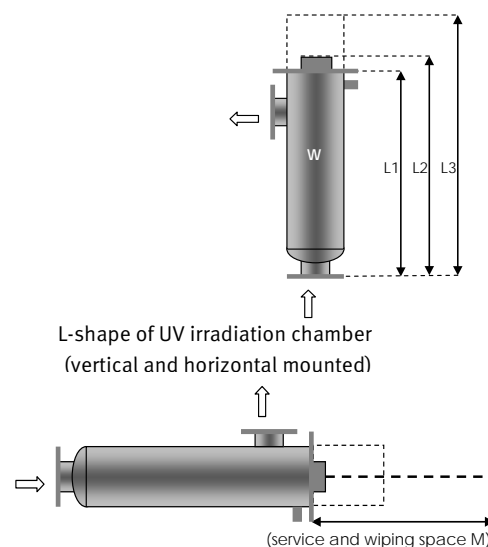*Higher or lower UV dose can be calculated from above table or on request to be indicated.*

Maximum hydraulic capacity**

Connection size	Capacity in m³/h
1"	5
1 ½"	12
2"	21

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

Dimensions

Connection1.5" BSP		mm
L1	distance top-bottom, without anti-fouling mechanism	990
L2	distance top-bottom, with manual anti-fouling mechanism	1125
L3	distance top-bottom, with electrical anti-fouling mechanism	1223
M	service and manual anti-fouling space	1500
M	service and electrical anti-fouling space	1000
W	outer diameter	114

L-shape of UV irradiation chamber
(vertical and horizontal mounted)

(service and wiping space M)

HWPDS-UVBM1125-XII-UK

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