

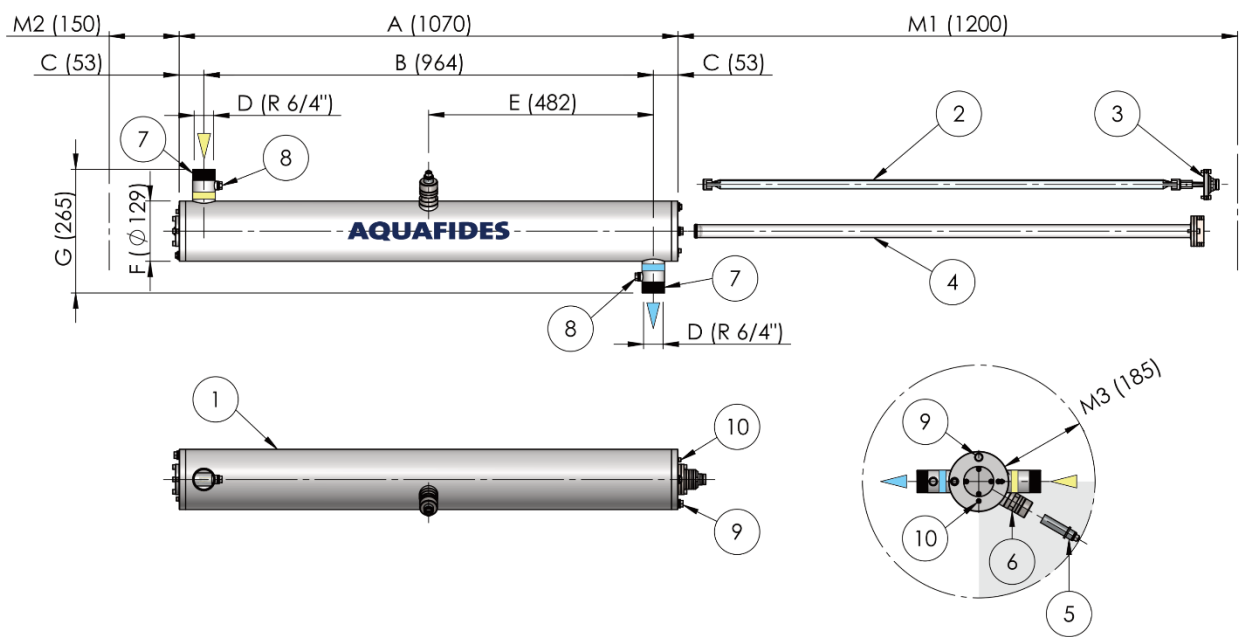
Technical data sheet

Manufacturer	AQUAFIDES	
UV Disinfectionsystem	Single-lamp system	
Productfamily	COMPACT	
System type	1 AF90 T	

Irradiation chamber

Connection dimension	DN40 (1 1/2") PN 10/16	shape	Z
Connectionsystem	External thread (DIN EN 10226-2, conical)	Material	
Vent valve and drainage square plug	G 1/4"	DIN EN 10088-3	1.4404
Sampling valve at inlet and outlet	G 1/4"	EN Material designation	X2CrNiMo17-12-2
Socket sensor connection system	COMPACT	AISI	316 L
Mounting thread	1"	B.S.	316S11
Irradiation chamber volume	12 l	Surface irradiation chamber	bath pickled
Weight without medium	11 kg	Design	Standard
Weight with medium	23 kg	Operating pressure (MOP)	PN 10/16 EN 13445-3
Protection class	IP65	Installation position	horizontal, vertical (any)
		Inlet/outlet distance	none
		Interior cleanable without disassembly	●

Dimensions



Symbolic representation - No dimensional drawing

A - Length irradiation chamber	1070 mm	M1 - Maintenance area lamp	1200 mm
B - Centre distance inlet/outlet	964 mm	M2 - Maintenance area	150 mm
C - Centre distance to reactor outer edge	53 mm	M3 - Maintenance area sensor	185 mm
D - Connection dimension	DN40 (1 1/2")		
E - Sensor position	481 mm		
F - Outer diameter irradiation chamber	129 mm		
G - Width irradiation chamber	265 mm		

Should the maintenance ranges be undershot, please contact AQUAFIDES.

UV lamp

Manufacturer	AQUAFIDES
Number of lamps	1
Lamp type	AF90
Technology	Low pressure mercury lamp
Amalgamposition	Pellet
AF-No. lamps	A00090
Power consumption (per lamp, including electronic ballast)	95 W
UV lamp current (normal operation per lamp)	0,75 A

Dimmability and control mode	
Power controlled	-
Dimming range power	-
Current controlled	-
Guaranteed lamp service life	see GTC
Expected lamp service life	10000 h
Medium temperature	0 ... 40 °C

UV sensor system

Manufacturer	AQUAFIDES
UV sensor type	DigiNorm
Article no.	A30000
Number of UV sensors	1
Opening angle	160°
Version	ÖNORM M 5873-1:2020, DIN 19294-1:2020
Type-tested	●
Calibrated	●
Recalibrated	●

Recalibration period	1 Year
System structure	Bus RS485
Operating mode	digital
UV Measuring range	2 ... 500 W/m²
Standard signal output (switchable)	0/4 ... 20 mA
Measuring accuracy	± 2 %
Selectivity - λ_{254}	≥ 99 %
Temperature stability	0 ... 75 °C

Device cable

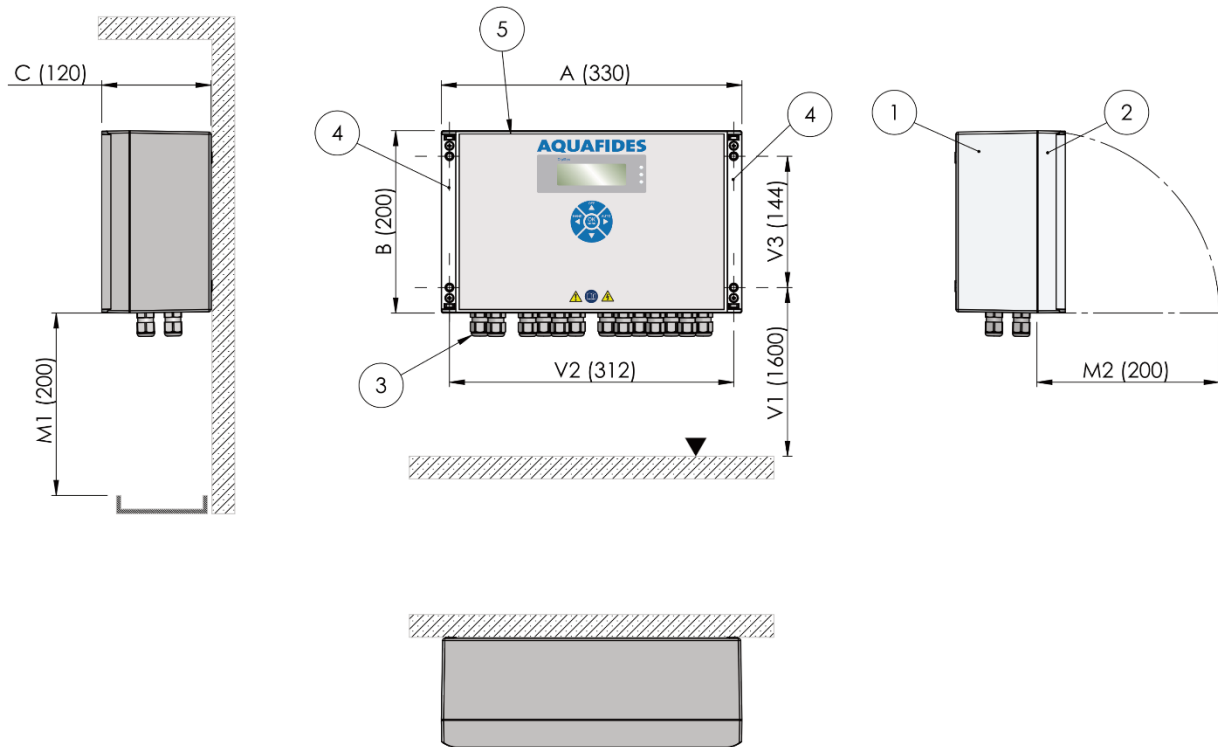
Cable type	Lamp cable
Article no.	A70020

Cable type	UV sensor cable
Article no.	A70010

Protection class (mounted)	IP68
Cable length	4,3 m

Protection class (mounted)	IP68
Cable length	5,5 m

Control cabinet



Symbolic representation - No dimensional drawing

Type	Wallmount enclosures	Installation conditions ²	
Height	300 mm	Ambient temperature of control cabinet	+1°C ... +35°C
Width	200 mm	Ambient temperature Storage	-20°C ... +60 °C
Depth	120 mm	Humidity	max. 95%
Weight	0 kg	Outdoor installation	-
Material	Die-cast aluminium	Protection class	IP65
Surface colour	RAL7040 Window gray	Thermal management	passive
Surface structure	Structured powder coating		

² For details, please refer to the "General installation and operating instructions" (6.2 Permissible ambient conditions).

Electrical specifications

Operating voltage	210 ... 250 V/AC	External fuse protection	C13
Mains frequency	50 ... 60 Hz	Power factor (normal operation)	0,99 cos ϕ
Maximum connected load	95 W	EMC tested	●
Nominal connected load	-	Safe to touch	●
Power consumption	0,4 A	Connection cable	
Operating connection	L/N/PE	Length	2m
Internal fuse protection	-	Connector plug	Plug type E+F (CEE 7/7)

191020221703 # MM # V3.7 # TDS_V1