

### TECHNICAL DATE SHEET

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### UVC single-lamp system - COMPACT T

SYSTEM TYPE			1 AF300 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
ÖVGW registry number			W 1.570
OPERATING RANGE			1 AF300 T
Flow rate certified (ÖNORM M 5873-1D)	from - up to	m³/h	6,28 - 23,62
Head loss flow-max certified (without geodetical height)		bar	0,051
Fluenz - biososimetric		J/m²	400
Type tested according ÖNORM M 5873-1D			yes
Tr100 @ 254nm	from - up to	%	6 - 100
Tr50 @ 254nm	from - up to	%	24,5 - 100
Tr10 @ 254nm	from - up to	%	75,5 - 100
SSK @ 254nm	from - up to	m-1	12,2 - 0
Temperature of process water*	from - up to	°C	0 - 65
CONTROL - CABINET			1 AF300 T
Type			DigiSys Compact 300 - 400
System design			Bus-RS485
Control mode			digital
Control data and software update access			USB
Software service and settings via laptop			yes
Control display multi 3-colours (green, yellow and red)			lines 4
Control button for the operation of the system			button 5
Product (control-cabinet)			Rolec
Material (control-cabinet)			aluminium
Colour (control-cabinet)			grey RAL 7040
Dimensions	width	mm	330
	height	mm	200
	depth	mm	120
Weight			kg 5,2
Operating voltage (nominal voltage)			V / Hz 230 / 50
Operating connection			0 1L / N / PE
Total consumed power (normal operation)			W 270
Power factor (normal operation)			cos φ 0,99
Current load per phase (by nominal voltage) max.			A 1,2
Protection class			IP 65
Feed line fuse (data for cutout type D)			pc x A 1 x 13
UVC lamp cable length (control-cabinet/reactor)			m 4
Power line cable length (control-cabinet/power plug)			m 2,5
Environmental temperature control-cabinet			°C 5 - 35
EVG ELECTRONIC BALLAST			1 AF300 T
Type			Compact 300 - 400
Design			EVG combined with controll mode
Number of EVG's			pcs 1
UVC lamps per EVG			pcs 1
System design			Bus-RS485
Control mode			digital
UVC power line regulation			% 50 - 120
Overall efficiency (normal operation EVG and UVC lamp)			% ≥ 90

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IRRADIATION CHAMBER (IC)			1 AF300 T
Irradiation chamber connection		mm	DN 65
Connecting dimensions acc. Norm (flange made of compressed plate PN)			DIN 2642
Design - lay-out inlet to outlet flange			Z - design
Irradiation chamber possible fitting positions	horizontal		yes
	vertical		yes
	reverse (UVC lamp)		yes
Material water-swept parts			stainless steel
Material number			1.4404
Material water-swept seals		O-rings	EPDM
Dimensions	width	mm	366
	height (length)	mm	1.163
	depth	mm	185
	ED Ø	mm	172
Height (length) IC including disassembling of the quartz tube		mm	2.355
Quartz tubes flanged with adapter	ED Ø	mm	38
	length	mm	1.157
Number of quartz tubes		pcs	1
Weight without medium		approx. kg	20,5
Weight with medium		approx. kg	43,9
Irradiation chamber volume		approx. l	23,4
Drain / vent (stainless steel ball valves)			G 1/4"
Irradiation chamber protection class		IP	65
Operating pressure (maximal)		bar	10
UVC LAMP			1 AF300 T
Type			AF300A
Product / Manufacturer			AQUAFIDES
Number of UVC lamps		pcs	1
UVC lamp kind			amalgam
UVC lamp power (Watt UVC per lamp - new lamp)			78,6
UVC lamp power (Watt UVC after 8.760 running hours per lamp) W (UVC)			55,0
UVC lamp power @ 253,7 nm		%	≥ 85
UVC lamp wavelength @ ≤ 240 nm			filtrated
Power consumption per UVC lamp (including EVG)		W	270
UVC lamp currentconsumption per UVC lamp (normal operation)		A	3,4
UVC lamp connection		special	4-pin
Lamp service life **		hours	12.000
UVC SENSORSYSTEM			1 AF300 T
Type			DigiNorm
Numbers of UVC sensors		pc	1
Design according ÖNORM M5873-1D			yes
Type tested according ÖNORM M5873-1D			yes
Recalibration according ÖNORM M5873-1D			yes
Calibration according ÖNORM M 5873-1D			yes
Recalibration time period		year	1
System design UVC sensor			Bus-RS485
Control mode			digital
UV measurement range		W/m <sup>2</sup>	2 - 500
Output signal (switchable)		mA	0/4 - 20
Exactness of the measurements		%	± 2
Sensitive @ 254 nm		%	≥ 99
Temperature stability		°C	0 - 75
UVC sensor cabel length		m	5

\* Medium temperature: in connection with the disinfection performance – please absolutely taking into account at dimensioning the plants

\*\* Lamp quarantee and usage agreements are mentioned in the general Terms and Conditions of UVC lamps