

TECHNICAL DATE SHEET

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UVC single-lamp system - COMPACT T

SYSTEM TYPE			1 AF400 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
ÖVGW registry number			W 1.571
OPERATING RANGE			1 AF400 T
Flow rate certified (ÖNORM M 5873-1D)	from - up to	m³/h	6,89 - 41,38
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	%	2 - 100
Tr50 @ 254nm	from - up to	%	14,1 - 100
Tr10 @ 254nm	from - up to	%	67,6 - 100
SSK @ 254nm	from - up to	m-1	17 - 0
Temperature of process water*		from - up to °C	0 - 65
CONTROL - CABINET			1 AF400 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			1L / N / PE
Total consumed power (normal operation)		W	395
Power factor (normal operation)		cos φ	0,99
Current load per phase (by nominal voltage) max.		A	1,7
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 AF400 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 AF400 T
Irradiation chamber connection			mm
			DN 80
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	1.628
	depth	mm	200
	ED Ø	mm	172
Height (length) IC including disassembling of the quartz tube			mm
			3.270
Quartz tubes flanged with adapter	ED Ø	mm	38
	length	mm	1.607
Number of quartz tubes			pcs
			1
Weight without medium			approx. kg
			24,0
Weight with medium			approx. kg
			56,9
Irradiation chamber volume			approx. l
			32,9
Drain / vent (stainless steel ball valves)			G 1/4"
Irradiation chamber protection class			IP
			65
Operating pressure (maximal)			bar
			10
UVC LAMP			1 AF400 T
Type			AF400A
Product / Manufacturer			AQUAFIDES
Number of UVC lamps			pcs
			1
UVC lamp kind			amalgam
UVC lamp power (Watt UVC per lamp - new lamp)			130,7
UVC lamp power (Watt UVC after 8.760 running hours per lamp) W (UVC)			91,5
UVC lamp power @ 253,7 nm			%
			≥ 85
UVC lamp wavelength @ ≤ 240 nm			filtrated
Power consumption per UVC lamp (including EVG)			W
			395
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 AF400 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 ²
			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 cable length			m
			5

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

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