

UVC DESINFECTION SYSTEM ÖVGW 1 AF90 T

TECHNICAL DATE SHEET

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UVC single-lamp system - COMPACT T

SYSTEM TYPE			1 AF90 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
ÖVGW registry number			W 1.569
OPERATING RANGE			1 AF90 T
Of Environmental			174 00 1
Flow rate certified (ÖNORM M 5873-1D) from - up to m³/h			2,65 - 9,45
Head loss flow-max certified (without geodetical height) bar			0,038
Fluenz - biodosimetric J/m²			400
Type tested according ÖNORM M 5873-1D			yes
Tr100 @ 254nm	from - up to	%	5 - 100
Tr50 @ 254nm	from - up to	%	22,4 - 100
Tr10 @ 254nm	from - up to	%	74,1 - 100
SSK @ 254nm	from - up to	m-1	13 - 0
Temperature of process water*	from - up to	°C	0 - 40
CONTROL - CABINET			1 AF90 T
Toron			Dis:O
Туре			DigiSys Compact
			Compact 45 - 90
System design			Bus-RS485
Control mode			
			digital USB
Control data and software update access			
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	4,9
1 0 0 0		V / Hz	230 / 50
Operating connection			1L / N / PE
Total consumed power (normal operation)		W	95
Power factor (normal operation)		cos φ	0,99
Current load per phase (by nominal voltage) max.		Α	0,4
Protection class		ΙP	65
Feed line fuse (data for cutout type D) pc x /		рс х А	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 AF90 T
Туре			Compact
Docign 51/0			45 -90
Design EVG Number of EVG's pcs			combined with controll mode
			1
UVC lamps per EVG pcs			1 Dua DC405
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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Friedrich Stadler

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IRRADIATION CHAMBER (IC)			1 AF90 T	
Irradiation chamber connection mm			R 6/4"	
Connecting dimensions acc. Norm (flange made of compressed plate PN			DIN 2999 (tapered)	
Design - lay-out inlet to outlet flange	•		Z - design	
Irradiation chamber	horizontal		yes	
possible fitting positions	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	265	
	height (length)	mm	1.084	
	depth	mm	129	
	ED Ø	mm	129	
Height (length) IC including disassembling		mm	2.212	
		mm	28	
Quartz tubes hariyeu with adapter	ED Ø length		1.093	
Number of quartz tubes	iengui	mm	1	
Weight without medium	approv	pcs	11	
	approx.	kg		
Weight with medium	approx.	kg	23	
Irradiation chamber volume	approx.	Į .	12	
Drain / vent (stainless steel ball valves)			G 1/4"	
Irradiation chamber protection class		IP	65	
Operating pressure (maximal)		bar	16	
UVC LAMP			1 AF90 T	
Туре			AF90	
Product / Manufacturer			AQUAFIDES	
Number of UVC lamps		pcs	1	
UVC lamp kind			low pressure	
UVC lamp power (Watt UVC per lamp - new lamp)			29,3	
UVC lamp power (Watt UVC after 8.760 running hours per lai W (UVC)			20,5	
UVC lamp power @ 253,7 nm %			≥ 85	
UVC lamp wavelength @ ≤ 240 nm			filtrated	
Power consumption per UVC lamp (including EVG) W			95	
UVC lamp currentconsumption per UVC lamp (normal operat A			0.75	
			4-pin	
			•	
Lamp service life ** hours 10.000				
UVC SENSORSYSTEM			1 AF90 T	
Туре			DigiNorm	
Numbers of UVC sensors		рс	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/m²			2 - 500	
Output signal (switchable) mA		0/4 - 20		
Exactness of the measurements %		± 2		
		±2 ≥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

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