

UVC DESINFECTION SYSTEM ÖVGW 1 AF45 T

TECHNICAL DATE SHEET

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UVC single-lamp system - COMPACT T

SYSTEM TYPE			1 AF45 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
			W 1.473
ÖVGW registry number			W 1.473
OPERATING RANGE			1 AF45 T
Flow rate certified (ÖNORM M 5873-1D) from - up to		m³/h	1,82 - 4,32
Head loss flow-max certified (without geodetical height)		bar	0,05
Fluenz - biodosimetric		J/m²	400
Type tested according ÖNORM M 5873-1D			yes
Tr100 @ 254nm	from - up to	%	10 - 100
Tr50 @ 254nm	from - up to	%	31,6 - 100
Tr10 @ 254nm	from - up to	%	79,4 - 100
SSK @ 254nm	from - up to	m-1	10 - 0
Temperature of process water*	from - up to	°C	0 - 40
CONTROL - CABINET			1 AF45 T
Туре			DigiSys
Турс			Compact
			45 - 90
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
		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
Operating voltage (nominal voltage)		V / Hz	230 / 50
Operating connection			1L / N / PE
Total consumed power (normal operation)		W	55
Power factor (normal operation)		cos φ	0,99
Current load per phase (by nominal voltage) max.		Α	0,2
Protection class		ΙP	65
Feed line fuse (data for cutout type D)		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		°C	5 - 35
EVG ELECTRONIC BALLAST			1 AF45 T
Туре			Compact
Dogian EVO			45 -90
Design EVG			combined with controll mode
Number of EVG's pcs UVC lamps per EVG pcs			1
UVC lamps per EVG pcs System design			1 Pug DS/05
Control mode			Bus-RS485
UVC power line regulation %			digital
			50 - 120 ≥ 90
Overall efficiency (normal operation EVG and UVC lamp) %			≤ 90

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IRRADIATION CHAMBER (IC)		1 AF45 T
Irradiation chamber connection	mm	R 1"
Connecting dimensions acc. Norm (flange m	nade 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	(3.3.3)	stainless steel
Material number		1.4404
Material water-swept seals	O-rings	EPDM
Dimensions	width mm	265
2	height (length) mm	634
	depth mm	129
	ED Ø mm	129
Height (length) IC including disassembling of		1.312
Quartz tubes flanged with adapter		
Quartz tubes hanged with adapter	EDØ mm	28
M. observer and the	length mm	643
Number of quartz tubes	pcs	1
Weight without medium	approx. kg	8
Weight with medium	approx. kg	15
Irradiation chamber volume	approx. I	7
Drain / vent (stainless steel ball valves)		G 1/4"
Irradiation chamber protection class	IP	65
Operating pressure (maximal)	bar	16
UVC LAMP		1 AF45 T
Туре		AF45
Product / Manufacturer		AQUAFIDES
Number of UVC lamps	pcs	1
UVC lamp kind	pee	low pressure
UVC lamp power (Watt UVC per lamp - new	(lamn)	15,0
UVC lamp power (Watt UVC after 8.760 run		10,5
UVC lamp power @ 253,7 nm	%	10,5 ≥ 85
UVC lamp wavelength @ ≤ 240 nm	/8	filtrated
Power consumption per UVC lamp (includin	a EVG) W	55
	-	
UVC lamp currentconsumption per UVC lamp (normal operat A		0,75
UVC lamp connection	special	4-pin
Lamp service life ** hours		10.000
UVC SENSORSYSTEM		1 AF45 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
Sensitive @ 254 nm %		±2 ≥99
<u> </u>		0 - 75
Temperature stability °C UVC sensor cabel length m		5
IIVC concer cohol longth		

^{*} 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