

UVC DESINFECTION SYSTEM "PSS400" 1 AF45 T

TECHNICAL DATE SHEET

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UVC single-lamp system - COMPACT T

Product				
Product Manufacturer	SYSTEM TYPE			1 AF45 T
Manufacturer	OTOTEM TITE			1711-10 1
Department De	Product			AQUAFIDES
Flow rate calculated	Manufacturer			AQUAFIDES
Head loss flow-max certified (without geodetical height) bar 0,108	OPERATING RANGE			1 AF45 T
Head loss flow-max certified (without geodetical height) bar 0,108	Flow rate calculated	from - up to	m³/h	0.18 - 6.35
Fluenz - calculated PSS (Point-Source-Summation)				
Tin50 @ 254nm	, ,	<u> </u>		400
Trifu @ 254nm	Tr100 @ 254nm	from - up to	%	1 - 100
SSK @ 254nm from - up to m-1 20 - 0	Tr50 @ 254nm	from - up to	%	10 - 100
Temperature of process water* From - up to °C O - 40	Tr10 @ 254nm	from - up to	%	63,1 - 100
Type	SSK @ 254nm	from - up to	m-1	20 - 0
Type	Temperature of process water*	from - up to	°C	0 - 40
Type				
System design	CONTROL - CABINET			1 AF45 T
System design	Туре			DigiSys
System design				Compact
Control mode				45 - 90
Control data and software update access	System design			Bus-RS485
Software service and settings via laptop	Control mode			digital
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 Weight kg 4,9 Operating voltage (nominal voltage) V / Hz 230 / 50 Operating connection 1L / N / PE Total consumed power (normal operation) W 55 Operating connection U.Y / PE 55 Power factor (normal operation) cos φ 0,99 Current load per phase (by nominal voltage) max. A 0,2 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/reactor) m 2,5 Environmental temperature control-cabinet	•			USB
Control button for the operation of the system button S				, ,
Product (control-cabinet) Rolec				
Material (control-cabinet) Golour (control-cabinet) Grey RAL T040	•	1	button	
Colour (control-cabinet) grey RAL 7040	,			
Dimensions	,			
height mm 200	,			
Depth mm 120	Dimensions			
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. A 0,2 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 Type Compact 45 - 90 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				
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UVC lamp cable length (control-cabinet/reactor) m 2,5 Environmental temperature control-cabinet °C 5 - 35 EVG ELECTRONIC BALLAST 1 AF45 T Type Compact 45 - 90 Design EVG combined with controll mode Number of EVG's pcs 1 UVC lamps per EVG pcs 1 System design Bus-RS485 Control mode UVC power line regulation % 50 - 120				
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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	Туре			•
UVC lamps per EVG pcs 1 System design Bus-RS485 Control mode digital UVC power line regulation % 50 - 120	Design		EVG	
UVC lamps per EVG pcs 1 System design Bus-RS485 Control mode digital UVC power line regulation % 50 - 120	Number of EVG's			
System design Bus-RS485 Control mode digital UVC power line regulation % 50 - 120	UVC lamps per EVG		•	1
UVC power line regulation % 50 - 120				Bus-RS485
	Control mode			digital
			%	50 - 120
Overall efficiency (normal operation EVG and UVC lamp) % ≥ 90	Overall efficiency (normal operation EVG and UVC lamp) %			≥ 90



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UVC single-lamp system - COMPACT T

IRRADIATION CHAMBER (IC)			1 AF45 T
Irradiation chamber connection		mm	R 1"
Connecting dimensions acc. Norm (flange made of compressed plate Pl			DIN 2999 (tapered)
Design - lay-out inlet to outlet flange	•		Z - design
Irradiation chamber	horizontal		yes
possible fitting positions	vertical		yes
	reverse (U'	VC 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	634
	depth	mm	129
	ED Ø	mm	129
Height (length) IC including disassembling	of the quartz tube	mm	1.312
Quartz tubes flanged with adapter	EDØ	mm	28
	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.	Ĭ	7
Drain / vent (stainless steel ball valves)	• • • • • • • • • • • • • • • • • • • •		G 1/4"
Irradiation chamber protection class		ΙP	65
Operating pressure (maximal)		bar	16
UVC LAMP			1 AF45 T
Type			AF45
Product / Manufacturer			AQUAFIDES
Number of UVC lamps		pcs	1
UVC lamp kind			low pressure
UVC lamp power (Watt UVC per lamp - new lamp)			15,0
UVC lamp power (Watt UVC after 8.760 running hours per la W (UVC)			10,5
UVC lamp power @ 253,7 nm %			≥ 85
UVC lamp wavelength @ ≤ 240 nm			filtrated
Power consumption per UVC lamp (including EVG) W			55
UVC lamp currentconsumption per UVC la	amp (normal opera	Α	0,75
UVC lamp connection special			4-pin
Lamp service life ** hours		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		<i>)</i>	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
Temperature stability		°C	0 - 75
		5	
UVC sensor cabel length m			J

^{*} 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