AQUAFIDES

UVC desinfection system COMPACT T

TECHNICAL DATA SHEET	Multi	3 AF400 T lamp UV system	400 W GEPRÜFT
System type			3 AF400 T
Manufacturer			AQUAFIDES
Productfamily			COMPACT T
Registry number			W 1.577
Operating range			3 AF400 T
Flow rate certified	from - up to	m³/h	0,1 - 193,48
Head loss Q-max certified	· · ·	bar	0,146
Fluenz - biodosimetric (ÖNORM M 5873-1D)		J/m²	400
Type tested according ÖNORM M 5873-1D			yes
T ₁₀₀ (100mm) @ 254nm	from - up to	%	7 - 100
T ₅₀ (50mm) @ 254nm	from - up to	%	26,5 - 100
T ₁₀ (10mm) @ 254nm	from - up to	%	76,6 - 100
SSK @ 254nm	from - up to	m ⁻¹	11,55 - 0
Temperature of process water ¹	from - up to	°C	0 - 65
Control cabinet			3 AF400 T
			DigiSys
Control-cabinet type			with SlaveCard
Control-cabinet type			3 AF 300-400
System design			Bus-RS485
Control mode			digital
Control data and software update access			USB
Software service and settings via laptop			
Control display multi 3-colours (green, yellow and red)		linco	yes
Control button for the operation of the system		lines button	<u> </u>
Product (control-cabinet)		Dutton	 Rittal AE
· · · · · · · · · · · · · · · · · · ·			
Material (control-cabinet)			steel plate RAL 7035
Colour (control-cabinet)			
	Width		Light gray
Dimensions		mm	500
Dimensions	Height	mm	700
Waight	Depth	mm	250
Weight		kg	<u> </u>
Operating voltage (nominal voltage)		V / Hz	
Operating connection		10/	1L / N / PE
Total consumed power (normal operation)		W	1.250
Power factor (normal operation)		cos φ	0,99
Current load per phase (by nominal voltage)		A	5,5
Protection class		no v ^	IP 55
Feed line fuse (data for cutout type D)		pc x A	1 x 16
UVC lamp cable length (control-cabinet/reactor)		m	8
UVC sensor cabel length		m	9 provided by the
Power line cable length (control-cabinet/power plug)			customer
Environmental temperature control-cabinet		°C	5 - 35
Electronic ballast			3 AF400 T
			EVG 300 - 400
Туре			3,4 Ampere PH
Design		EVG	housing
Number of EVG's		pcs	3
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

AQUAFIDES

UVC desinfection system COMPACT T

3 AF400 T G E P R Ü F T Multi-lamp UV system 400 W 3 AF400 T

Irradiation chamber			3 AF400 T
Irradiation chamber connection			DN 150
Connection	similar		Lap joint flange with welding collar (PN10) or welding rim (PN16)
Connection Norm (DIN)	similar		EN 1092-1 Type 2 (DIN 2642)
Design - lay-out inlet to outlet flange			U - shape
Irradiation chamber	horizontal		yes
possible fitting positions	vertical reverse UVC lamp		yes
Material water-swept parts	reverse uvc lamp		yes stainless steel
	EN 10088-3		1.4404
Material number according	AISI		316L
-	B.S.		316S11
Material water-swept seals	O-Ringe		EPDM
Pressure	width		PN10/16 364
Dimensions	height (length)	mm	1.653
	Vessel Ø	mm	256
Centre distance in- and outlet		mm	1.368
Height (length) IC including disassembling of the quartz tube		mm	3.265
Quarz tube flanged	EDØ	mm	38
Number of guartz tubes	length	mm	<u>1.607</u> 3
Weight without medium		pcs kg	64
Weight with medium		kg	120
Irradiation chamber volume		Ī	56
Vent Valve and Drainage Square Plug			G 1/2"
Sampling Valve at In- and Outlet			G 1/4"
Irradiation chamber protection class			IP 65
Flange drilling		bar	10
UVC Lamp			3 AF400 T
UVC lamp type			AF400A
Manufacturer			AQUAFIDES
Number of UVC lamps UVC lamp kind		pcs	3
UVC lamp kind UVC lamp power (Watt UVC per lamp - new lamp)		W (UVC)	amalgam 130,7
UVC lamp power lamp after 8.760 h		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 current consumption per UVC lamp (normal operation	on)	A	3,4
UVC lamp connection		h	4-pin
Expected lamp life time ² Temperature of process water ¹		<u> </u>	<u> </u>
		<u> </u>	
UVC Sensorsystem			3 AF400 T
UVC sensortype			DigiNorm
Numbers of UVC sensors		рс	1
Design according ÖNORM M 5873-1D Type tested according ÖNORM M 5873-1D			yes
Recalibration according ÖNORM M 5873-1D			yes yes
Calibration according ÖNORM M 5873-1D			yes
Recalibration time period		year	1
System design UVC sensor			Bus-RS485
Control mode			digital
UVC measurement range		Wm ²	2 - 500
Output signal (switchable) Exactness of the measurements		MA%	0/4 - 20 ± 2
Sensitive @ 254 nm		%	± 2 ≥ 99
Temperature stability		°C	0 - 75
		~	· · ·

1) Medium temperature: in connection with the disinfection performance - please absolutely taking into account at dimensioning the plants

²) Lamp quarantee and usage agreements are mentioned in the general Terms and Conditions of UVC lamps