AQUAFIDES

UVC desinfection system COMPACT T

	AF300 T UV system 30	0 W
Manufacturer		
Manufacturer		2 AF300 T
		AQUAFIDES
1 roudolidaning		COMPACT T
Registry number		W 1.572
Operating range	3/1-	2 AF300 T
Flow rate certified from - up to	m³/h	0,1 - 59,34
Head loss Q-max certified	bar	0,118
Fluenz - biodosimetric (ÖNORM M 5873-1D)	J/m²	400
Type tested according ÖNORM M 5873-1D	%	yes 8 - 100
T ₁₀₀ (100mm) @ 254nm from - up to	<u>%</u>	
T ₅₀ (50mm) @ 254nm from - up to		28,3 - 100
T ₁₀ (10mm) @ 254nm from - up to	%	77,7 - 100
SSK @ 254nm from - up to	°C	10,97 - 0
Temperature of process water 1 from - up to	۰C	0 - 65
Control cabinet		2 AF300 T
		DigiSys
Control-cabinet type		with SlaveCard
		2 AF 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
	button	5
Product (control-cabinet)		Rittal AE
Material (control-cabinet)		steel plate
Colour (control-cabinet)		RAL 7035
		Light gray
Width	mm	500
Dimensions Height	mm	700
Depth	mm	250
Weight	kg	34
	V / Hz	230 / 50
Operating connection		1L / N / PE
Total consumed power (normal operation)	W	580
Power factor (normal operation)	cos φ	0,99
Current load per phase (by nominal voltage)	Α	2,5
Protection class		IP 55
	pc x A	<u>1 x 16</u>
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)		provided by the customer
Environmental temperature control-cabinet	°C	5 - 35
Electronic ballast		2 AF300 T
Туре		EVG 300 - 400
		3,4 Ampere PH
Design	EVG	housing
Number of EVG's	pcs	2
UVC lamps per EVG	pcs	1
System design		Bus-RS485
Control mode		digital
	%	50 - 120
UVC power line regulation Overall efficiency (normal operation EVG and UVC lamp)	%	≥ 90

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Irradiation chamber Irradiation chamber connection

Connection Norm (DIN)

possible fitting positions

Material water-swept parts

Material number according

Material water-swept seals

Centre distance in- and outlet

Irradiation chamber

Connection

Pressure

Dimensions

Quarz tube flanged

Number of quartz tubes

Weight without medium

Irradiation chamber volume

Sampling Valve at In- and Outlet

Weight with medium

Flange drilling

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2 AF300 T **WGW TECHNICAL DATA SHEET** GEPRÜFT Multi-lamp UV system 300 W 2 AF300 T DN 80 Lap joint flange with welding collar similar (PN10) or welding rim (PN16) EN 1092-1 Type 2 similar (DIN 2642) Design - lay-out inlet to outlet flange U - shape horizontal yes vertical yes reverse UVC lamp ves stainless steel EN 10088-3 1.4404 AISI 316L B.S. 316S11 O-Ringe EPDM PN10/16 width mm 306 1.188 height (length) mm Vessel Ø mm 206 mm 988 Height (length) IC including disassembling of the quartz tube 2.356 mm ED Ø 38 mm length mm 1.157 pcs 2 35 kg kg 67 32 Т G 1/2" Vent Valve and Drainage Square Plug G 1/4" IP 65 Irradiation chamber protection class bar 10

UVC Lamp 2 AF300 T UVC lamp type AF300A AQUAFIDES Manufacturer Number of UVC lamps 2 pcs UVC lamp kind amalgam UVC lamp power (Watt UVC per lamp - new lamp) W (UVC) 78,6 UVC lamp power per lamp after 8.760 h W (UVC) 55 UVC lamp power @ 253,7 nm % ≥ 85 filtrated UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (including EVG) W 270 UVC lamp current consumption per UVC lamp (normal operation) A 3,4 UVC lamp connection 4-pin Expected lamp life time ² h 12000 Temperature of process water 1 °C 0 - 65

UVC Sensorsystem		2 AF300 T
UVC sensortype		DigiNorm
Numbers of UVC sensors	рс	1
Design according ÖNORM M 5873-1D		yes
Type tested according ÖNORM M 5873-1D		yes
Recalibration according ÖNORM M 5873-1D		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	Wm²	2 - 500
Output signal (switchable)	mA	0/4 - 20
Exactness of the measurements	%	± 2
Sensitive @ 254 nm	%	≥ 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 guarantee and usage agreements are mentioned in the general Terms and Conditions of UVC lamps