AQUAFIDES

UVC DISINFECTION SYSTEMS
ÖVGW 6 AF300 T

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UVC multiple-lamp systems 300 W - **COMPACT T**

SYSTEM TYPE			6 AF300 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
ÖVGW registry number			W 1.578

OPERATING RANGE			6 AF300 T
Flow rate certified (ÖNORM M 5873-1D)	from - up to	m³/h	51,0 - 232
Head loss flow-max certified (without geodetical height)		bar	0,071
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 - 65

CONTROL - CABINET			6 AF300 T
Type			DigiSys with Slave Card 6 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
Control button for the operation of the system		button	5
Product (control-cabinet)			Rittal AE
Material (control-cabinet)			steel plate coated
Colour (control-cabinet)	grey	RAL	7035
Dimensions	width	mm	760
	height	mm	760
	depth	mm	300
Weight		kg	67
Operating voltage (nominal voltage)		V / Hz	400 / 50
Operating connection			3L / N / PE
Total consumed power (normal operation)		W	1.650
Power factor (normal operation)		cos φ	0,99
Current load per phase (by nominal voltage)	max.	A	4,8 / 2,4 / 0,1
Protection class		IP	55
Feed line fuse (data for cutout type D)		pc x A	3 x 16
UVC lamp cable length (control-cabinet/reactor)		m	8
Power line cable length (control-cabinet/power plug)		m	no
Environmental temperature control-cabinet		°C	5 - 35

EVG ELECTRONIC BALLAST			6 AF300 T
Type			EVG 300 - 400 3,4 Ampere PH
Design		EVG	housing
Number of EVG´s		pc	6
UVC lamps per EVG		pc	1
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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IRRADIATION CHAMBER			6 AF300 T
Irradiation chamber connection		mm	DN 200
Connecting dim. acc. Norm (flange made of compressed plate)			DIN 2642
Design - lay-out inlet to outlet flange			U - design
Irradiation chamber possible fitting positions	horizontal		yes
	vertical		yes
	reverse	(lamp)	yes
Material water-swept parts			stainless steel
Material number			1.4404
Material water-swept seals	O-rings		EPDM
Dimensions	width	mm	500
	height (length)	mm	1.134
	depth	mm	390
	ED Ø	mm	390
Height IC including disassembling of the quartz tube		mm	2.366
Quartz tubes flanged with adapter	ED Ø	mm	38
	length	mm	1.157
Number of quartz tubes		pc	6
Weight without medium	approx.	kg	116
Weight with medium	approx.	kg	232
Irradiation chamber volume	approx.	l	116
Drain / vent			1/2"
Irradiation chamber protection class		IP	65
Operating pressure (maximal)		bar	10

UVC LAMP		6 AF300 T
Type		AF300A
Product / Manufacturer		AQUAFIDES
Number of UVC lamps	pc	6
UVC lamp kind		amalgam
UVC lamp power (Watt UVC per lamp - new lamp)	W (UVC)	78,6
UVC lamp power (Watt UVC after 8.760 running hours per lai	W (UVC)	55
UVC lamp power @ 253,7 nm	%	≥ 85
UVC lamp wavelength @ ≤ 240 nm		filtered
Power consumption per UVC lamp (including EVG)	W	270
UVC lamp currentconsumption per UVC lamp (normal operat	A	3,4
UVC lamp connection	special	4-pin
Lamp service life **	h	12.000

UVC SENSORSYSTEM		6 AF300 T
Type		DigiNorm
Numbers of UVC sensors	pc	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	%	≥ 99
Temperature stability	°C	0 - 75
UVC sensor cabel length	m	9

** Medium temperature: in connection with the disinfection performance – please absolutely taking into account at dimensioning the plants*

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