

TECHNICAL DATA SHEET page 1/2

UVC multiple-lamp systems 300 W - COMPACT T

SYSTEM TYPE			3 AF300 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
OPERATING RANGE			3 AF300 T
Flow rate calculated	from - up to	m ³ /h	3,9 - 162,2
Head loss flow-max certified (without geodetical height)			0,431
Fluenz - calculated PSS (Point-Source-Summation)			400
Tr100 @ 254nm	from - up to	%	1 - 100
Tr50 @ 254nm	from - up to	%	10 - 100
Tr10 @ 254nm	from - up to	%	63,1 - 100
SSK @ 254nm	from - up to	m-1	20 - 0
Temperature of process water*	from - up to	°C	0 - 65
CONTROL - CABINET			3 AF300 T
Type			DigiSys with Slave Card 3 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 56
Operating voltage (nominal voltage)			V / Hz 230 / 50
Operating connection			1L / N / PE
Total consumed power (normal operation)			W 840
Power factor (normal operation)			cos φ 0,99
Current load per phase (by nominal voltage)		max. A	3,7
Protection class			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
Power line cable length (control-cabinet/power plug)			m no
Environmental temperature control-cabinet			°C 5 - 35
EVG ELECTRONIC BALLAST			3 AF300 T
Type			EVG 300 - 400 3,4 Ampere PH
Design		EVG	housing
Number of EVG´s		pc	3
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

TECHNICAL DATA SHEET page 2/2

UVC multiple-lamp systems 300 W - COMPACT T

IRRADIATION CHAMBER			3 AF300 T
Irradiation chamber connection		mm	DN 100
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	361
	height (length)	mm	1.134
	depth	mm	256
	ED Ø	mm	256
Height IC including disassembling of the quartz tube		mm	2.356
Quartz tubes flanged with adapter	ED Ø	mm	38
	length	mm	1.157
Number of quartz tubes		pc	3
Weight without medium		approx. kg	46
Weight with medium		approx. kg	97
Irradiation chamber volume		approx. l	51
Drain / vent			1/2"
Irradiation chamber protection class		IP	65
Operating pressure (maximal)		bar	10
UVC LAMP			3 AF300 T
Type			AF300A
Product / Manufacturer			AQUAFIDES
Number of UVC lamps		pc	3
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 la		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 opera		A	3,4
UVC lamp connection		special	4-pin
Lamp service life **		h	12.000
UVC SENSORSYSTEM			3 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/m ²	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