

### TECHNICAL DATE SHEET

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UVC multiple-lamp systems 400 W - **COMPACT T**

SYSTEM TYPE			6 AF400 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
DVGW type approval registry number - W294-2 (01.06.2006)			DW-9181CL0060
OPERATING RANGE			6 AF400 T
Flow rate certified (DVGW W294-2)	from - up to	m <sup>3</sup> /h	45,0 - 360,0
Interpolation between the test points allowed			yes
Head loss flow-max certified (without geodetical height)		bar	0,100
Fluenz - biososimetric (W294-2)		J/m <sup>2</sup>	400
Type approval according DVGW W294-2 (01.06.2006)			yes
Tr100 @ 254nm	from - up to	%	2,5 - 100
Tr50 @ 254nm	from - up to	%	15,8 - 100
Tr10 @ 254nm	from - up to	%	69,2 - 100
SSK @ 254nm	from - up to	m-1	16,2 - 0
Temperature of process water*	from - up to	°C	0 - 65
CONTROL - CABINET			6 AF400 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			0 3L / N / PE
Total consumed power (normal operation)			W 2.450
Power factor (normal operation)			cos φ 0,99
Current load per phase (by nominal voltage)	max.	A	7,2 / 3,6 / 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 AF400 T
Type			EVG 300 - 400 3,4 Ampere PH
Design		EVG	housing
Number of EVG's		pcs	6
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

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IRRADIATION CHAMBER			6 AF400 T
Irradiation chamber connection			DN 250
Connecting dimensions 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 (UVC 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	1.584
	depth	mm	395
	ED Ø	mm	390
Height IC including disassembling of the quartz tube			mm 3.275
Quartz tubes flanged with adapter	ED Ø	mm	38
	length	mm	1.607
Number of quartz tubes			pcs 6
Weight without medium			approx. kg 158
Weight with medium			approx. kg 321
Irradiation chamber volume			approx. l 163
Drain / vent			1/2"
Irradiation chamber protection class			IP 65
Operating pressure (maximal)			bar 10
UVC LAMP			6 AF400 T
Type			AF400A
Product / Manufacturer			AQUAFIDES
Number of UVC lamps			pcs 6
UVC lamp kind			amalgam
UVC lamp power (Watt UVC per lamp - new lamp)			130,7
UVC lamp power (Watt UVC after 8.760 running hours per lamp) 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 currentconsumption per UVC lamp (normal operation)			A 3,4
UVC lamp connection			special 4-pin
Lamp service life **			hours 12.000
UVC SENSORSYSTEM			6 AF400 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 <sup>2</sup> 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 cable length			m 9

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

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