

### TECHNICAL DATE SHEET

page 1/2

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

SYSTEM TYPE			4 AF400 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
ÖVGW registry number			W 1.473
OPERATING RANGE			4 AF400 T
Flow rate certified (ÖNORM M 5873-1D)	from - up to	m³/h	69,8 - 240
Head loss flow-max certified (without geodetical height)		bar	0,081
Fluenz - biososimetric		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			4 AF400 T
Type			DigiSys with Slave Card 4 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	58
Operating voltage (nominal voltage)		V / Hz	230 / 50
Operating connection			1L / 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	7,3
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			4 AF400 T
Type			EVG 300 - 400 3,4 Ampere PH
Design	EVG		housing
Number of EVG's	pcs		4
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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page 2/2

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IRRADIATION CHAMBER			4 AF400 T
Irradiation chamber connection			0
Connecting dimensions acc. Norm (flange made of compressed plate)			DN 200
Design - lay-out inlet to outlet flange			DIN 2642
Irradiation chamber possible fitting positions			U - design
horizontal			yes
vertical			yes
reverse (UVC lamp)			yes
Material water-swept parts			stainless steel
Material number			1.4404
Material water-swept seals			O-rings
Dimensions			EPDM
width		mm	432
height (length)		mm	1584
depth		mm	340
ED Ø		mm	324
Height IC including disassembling of the quartz tube			mm
Quartz tubes flanged with adapter			ED Ø
		mm	38
		length	mm
			1.607
Number of quartz tubes			pcs
			4
Weight without medium			approx. kg
			79
Weight with medium			approx. kg
			195
Irradiation chamber volume			approx. l
			116
Drain / vent			1/2"
Irradiation chamber protection class			IP
			65
Operating pressure (maximal)			bar
			10
UVC LAMP			4 AF400 T
Type			AF400A
Product / Manufacturer			AQUAFIDES
Number of UVC lamps			pcs
			4
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			4 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