

### TECHNICAL DATE SHEET

page 1/2

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

SYSTEM TYPE			4 AF400 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
OPERATING RANGE			4 AF400 T
Flow rate calculated	from - up to	m <sup>3</sup> /h	9,1 - 428,4
Head loss flow-max certified (without geodetical height)			0,259
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			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		0	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

### TECHNICAL DATE SHEET

page 2/2

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

IRRADIATION CHAMBER			4 AF400 T
Irradiation chamber connection			DN 200
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	432
	height (length)	mm	1584
	depth	mm	340
	ED Ø	mm	324
Height IC including disassembling of the quartz tube			mm 3265
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 la 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 opera 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 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