

TECHNICAL DATE SHEET

page 1/2

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

SYSTEM TYPE			4 AF400 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
DVGW type approval registry number - W294-2 (01.06.2006)			DW-9181BU0280
OPERATING RANGE			4 AF400 T
Flow rate certified (DVGW W294-2)	from - up to	m ³ /h	56,0 - 217,0
Interpolation between the test points allowed			yes
Head loss flow-max certified (without geodetical height)		bar	0,066
Fluenz - biososimetric (W294-2)		J/m ²	400
Type approval according DVGW W294-2 (01.06.2006)			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			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

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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
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			EPDM
Dimensions	O-rings		
	width	mm	432
	height (length)	mm	1584
	depth	mm	340
	ED Ø	mm	324
Height IC including disassembling of the quartz tube			mm
Height IC including disassembling of the quartz tube			3265
Quartz tubes flanged with adapter	ED Ø	mm	38
	length	mm	1.607
Number of quartz tubes			pcs
Number of quartz tubes			4
Weight without medium			approx. kg
Weight without medium			79
Weight with medium			approx. kg
Weight with medium			195
Irradiation chamber volume			approx. l
Irradiation chamber volume			116
Drain / vent			1/2"
Irradiation chamber protection class			IP
Irradiation chamber protection class			65
Operating pressure (maximal)			bar
Operating pressure (maximal)			10
UVC LAMP			4 AF400 T
Type			AF400A
Product / Manufacturer			AQUAFIDES
Number of UVC lamps			pcs
Number of UVC lamps			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)
UVC lamp power (Watt UVC after 8.760 running hours per lamp)			91,5
UVC lamp power @ 253,7 nm			%
UVC lamp power @ 253,7 nm			≥ 85
UVC lamp wavelength @ ≤ 240 nm			filtrated
Power consumption per UVC lamp (including EVG)			W
Power consumption per UVC lamp (including EVG)			395
UVC lamp currentconsumption per UVC lamp (normal operation)			A
UVC lamp currentconsumption per UVC lamp (normal operation)			3,4
UVC lamp connection			special
UVC lamp connection			4-pin
Lamp service life **			hours
Lamp service life **			12.000
UVC SENSORSYSTEM			4 AF400 T
Type			DigiNorm
Numbers of UVC sensors			pc
Numbers of UVC sensors			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
Recalibration time period			1
System design UVC sensor			Bus-RS485
Control mode			digital
UV measurement range			W/m ²
UV measurement range			2 - 500
Output signal (switchable)			mA
Output signal (switchable)			0/4 - 20
Exactness of the measurements			%
Exactness of the measurements			± 2
Sensitive @ 254 nm			%
Sensitive @ 254 nm			≥ 99
Temperature stability			°C
Temperature stability			0 - 75
UVC sensor cable length			m
UVC sensor cable length			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