

TECHNICAL DATE SHEET

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UVC single-lamp system - COMPACT T

SYSTEM TYPE			1 AF90 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
DVGW type approval registry number - W294-2 (01.06.2006)			DW-9181BU0071
OPERATING RANGE			1 AF90 T
Flow rate certified (DVGW W294-2)	from - up to	m³/h	2,1 - 8,0
Interpolation between the test points allowed			yes
Head loss flow-max certified (without geodetical height)			bar
Fluenz - biososimetric (W294-2)			J/m²
Type approval according DVGW W294-2 (01.06.2006)			ja
Tr100 @ 254nm	from - up to	%	5 - 100
Tr50 @ 254nm	from - up to	%	22,4 - 100
Tr10 @ 254nm	from - up to	%	74,1 - 100
SSK @ 254nm	from - up to	m-1	13 - 0
Temperature of process water*	from - up to	°C	0 - 40
CONTROL - CABINET			1 AF90 T
Type			DigiSys Compact 45 - 90
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
Control button for the operation of the system			button
Product (control-cabinet)			Rolec
Material (control-cabinet)			aluminium
Colour (control-cabinet)			grey RAL
Dimensions			width mm
			height mm
			depth mm
Weight			kg
Operating voltage (nominal voltage)			V / Hz
Operating connection			1L / N / PE
Total consumed power (normal operation)			W
Power factor (normal operation)			cos φ
Current load per phase (by nominal voltage) max.			A
Protection class			IP
Feed line fuse (data for cutout type D)			pc x A
UVC lamp cable length (control-cabinet/reactor)			m
Power line cable length (control-cabinet/power plug)			m
Environmental temperature control-cabinet			°C
EVG ELECTRONIC BALLAST			1 AF90 T
Type			Compact 45 - 90
Design			EVG
Number of EVG's			pcs
UVC lamps per EVG			pcs
System design			Bus-RS485
Control mode			digital
UVC power line regulation			%
Overall efficiency (normal operation EVG and UVC lamp)			%

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IRRADIATION CHAMBER (IC)			1 AF90 T
Irradiation chamber connection			mm
Connecting dimensions acc. Norm (flange made of compressed plate PN)			R 6/4"
Design - lay-out inlet to outlet flange			DIN 2999 (tapered)
Irradiation chamber possible fitting positions			Z - 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
		height (length)	mm
		depth	mm
		ED Ø	mm
Height (length) IC including disassembling of the quartz tube			mm
Quartz tubes flanged with adapter			ED Ø
		length	mm
Number of quartz tubes			pcs
Weight without medium			approx. kg
Weight with medium			approx. kg
Irradiation chamber volume			approx. l
Drain / vent (stainless steel ball valves)			G 1/4"
Irradiation chamber protection class			IP
Operating pressure (maximal)			bar
UVC LAMP			1 AF90 T
Type			AF90
Product / Manufacturer			AQUAFIDES
Number of UVC lamps			pcs
UVC lamp kind			low pressure
UVC lamp power (Watt UVC per lamp - new lamp)			29,3
UVC lamp power (Watt UVC after 8.760 running hours per lamp) W (UVC)			20,5
UVC lamp power @ 253,7 nm			%
UVC lamp wavelength @ ≤ 240 nm			filtrated
Power consumption per UVC lamp (including EVG)			W
UVC lamp currentconsumption per UVC lamp (normal operation)			A
UVC lamp connection			special
Lamp service life **			hours
UVC SENSORSYSTEM			1 AF90 T
Type			DigiNorm
Numbers of UVC sensors			pc
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
System design UVC sensor			Bus-RS485
Control mode			digital
UV measurement range			W/m ²
Output signal (switchable)			mA
Exactness of the measurements			%
Sensitive @ 254 nm			%
Temperature stability			°C
UVC sensor cable length			m

* 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