## AQUAFIDES

## UVC DESINFECTION SYSTEM

"PSS 400J/m<sup>2</sup>" 8 AF400 T

TECHNICAL DATE SHEE	ET pa	age 1/2	UVC multiple-lamp systems 400 W - COMPACT T
SYSTEM TYPE			8 AF400 T
Product			AQUAFIDES
Manufacturer			AQUAFIDES
OPERATING RANGE			8 AF400 T
Flow rate calculated	from - up to	m³/h	39 - 1.102
Head loss flow-max certified (without geodetical height) ba			0,779
Fluenz - calculated PSS (Point-Source-Summ		J/m²	400
Tr100 @ 254nm	from - up to	%	2 - 100
Tr50 @ 254nm	from - up to	%	14,1 - 100
Tr10 @ 254nm SSK @ 254nm	from - up to from - up to	% m-1	67,6 - 100 16.99 - 0
Temperature of process water*	from - up to	°C	0 - 65
		0	
CONTROL - CABINET			8 AF400 T
Туре			DigiSys with Slave Card 8 AF 300-400
System design			Bus-RS485
Control mode			digital
Control data and software update access			USB
Software service and settings via laptop Control display multi 3-colours (green, yellow	and rad)	lines	yes
Control button for the operation of the system		lines button	4 5
Product (control-cabinet)		DULLON	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	71
Operating voltage (nominal voltage)		V / Hz	400 / 50
Operating connection Total consumed power (normal operation)		0 W	3L / N / PE 3.250
Power factor (normal operation)		cos φ	0,99
Current load per phase (by nominal voltage)	max.	<u> </u>	7,2 / 7,2 / 0,1
Protection class		IP	54
Feed line fuse (data for cutout type D)		рс х А	3 x 16
UVC lamp cable length (control-cabinet/react		m	8
Power line cable length (control-cabinet/pow	er plug)	m	no
Environmental temperature control-cabinet		°C	5 - 35
EVG ELECTRONIC BALLAST			8 AF400 T
Туре			EVG 300 - 400 3,4 Ampere PH
Design		EVG	housing
Number of EVG's		pcs	8
UVC lamps per EVG		pcs	1
System design			Bus-RS485
Control mode UVC power line regulation			digital 50 - 120
Overall efficiency (normal operation EVG and	UVC lamp)	%	≥ 90
		70	- 30

## AQUAFIDES

## UVC DESINFECTION SYSTEM

"PSS 400J/m<sup>2</sup>" 8 AF400 T

	EET page 2/2	UVC multiple-lamp systems 400 W - COMPACT
IRRADIATION CHAMBER		8 AF400 T
		DN 050
Irradiation chamber connection	made of compressed plate)	DN 250
Connecting dimensions acc. Norm (flange	a made of compressed plate)	DIN 2642
Design - lay-out inlet to outlet flange Irradiation chamber	horizontal	U - design
possible fitting positions	vertical	yes
		yes
Matarial water awant parts	reverse (UVC lamp)	yes stainless steel
Material water-swept parts Material number		1.4404
Material water-swept seals	O-rings	EPDM
Height IC including disassembling of the qu	width mm	550
		1.584
	height (length) mm depth mm	440
		<u> </u>
Quartz tubes flanged with adapter		
wanz iubes nangeu with adapter		38 1.607
Number of quarter tubes	length mm	8
Number of quartz tubes Weight without medium	pcs kg	215
-	approx. kg	
Weight with medium Irradiation chamber volume	approx. kg	421
Drain / vent	approx. I	<u> </u>
Irradiation chamber protection class	IP	65
Operating pressure (maximal)	bar	10
UVC LAMP		8 AF400 T
Туре		AF400A
Product / Manufacturer		AQUAFIDES
Number of UVC lamps	pcs	8
UVC lamp kind		amalgam
		anagan
UVC lamp power (Watt UVC per lamp - ne	ew lamp)	130,7
UVC lamp power (Watt UVC after 8.760 m		-
UVC lamp power (Watt UVC after 8.760 m		130,7
	running hours per la W (UVC)	130,7 91,5
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm	running hours per la W (UVC) %	130,7 91,5 ≥ 85
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm	unning hours per la W (UVC) % ding EVG) W	130,7 91,5 ≥ 85 filtrated
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (include	unning hours per la W (UVC) % ding EVG) W	130,7 91,5 ≥ 85 filtrated 395
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la	unning hours per la W (UVC) % ding EVG) W amp (normal opera A	130,7 91,5 ≥ 85 filtrated 395 3,4
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm 1
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm 1 yes
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-11	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm 1 yes yes
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-11 Recalibration according ÖNORM M5873-1	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D 1D	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 <b>8 AF400 T</b> DigiNorm 1 yes yes yes yes
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1 Recalibration according ÖNORM M5873-1	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D 1D D	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm 1 yes yes yes yes yes
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D 1D	130,7         91,5         ≥ 85         filtrated         395         3,4         4-pin         12.000         B AF400 T         DigiNorm         1         yes         yes         yes         yes         1         1         1         yes         yes         1         1         yes         1         1         1         1         1         1         1         1         1         1         3 <t< td=""></t<>
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D 1D D	130,7         91,5         ≥ 85         filtrated         395         3,4         4-pin         12.000         B AF400 T         DigiNorm         1         yes         yes         yes         yes         1         Bus-RS485
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** UVC SENSORSYSTEM Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor Control mode	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc pc D 1D D 1D D year	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm 1 yes yes yes yes yes 1 Bus-RS485 digital
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** <b>UVC SENSORSYSTEM</b> Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor Control mode UV measurement range	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D 1D D 1D D year W/m <sup>2</sup>	130,7 91,5 ≥ 85 filtrated 395 3,4 4-pin 12.000 8 AF400 T DigiNorm 1 yes yes yes yes yes 1 Bus-RS485 digital 2 - 500
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** <b>UVC SENSORSYSTEM</b> Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor Control mode UV measurement range Output signal (switchable)	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc D 1D D 1D D year year W/m <sup>2</sup> mA	130,7         91,5         ≥ 85         filtrated         395         3,4         4-pin         12.000         B AF400 T         DigiNorm         1         yes         yes         yes         1         Bus-RS485         digital         2 - 500         0/4 - 20
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** <b>UVC SENSORSYSTEM</b> Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor Control mode UV measurement range Output signal (switchable) Exactness of the measurements	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc pc D 1D D 1D D year year W/m² mA	130,7         91,5         ≥ 85         filtrated         395         3,4         4-pin         12.000         B AF400 T         DigiNorm         1         yes         yes         yes         yes         jes         1         Bus-RS485         digital         2 - 500         0/4 - 20         ± 2
UVC lamp power (Watt UVC after 8.760 m UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** <b>UVC SENSORSYSTEM</b> Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor Control mode UV measurement range Output signal (switchable) Exactness of the measurements Sensitive @ 254 nm	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc pc D 1D D 1D D year year W/m² mA %	130,7         91,5         ≥ 85         filtrated         395         3,4         4-pin         12.000         B AF400 T         DigiNorm         1         yes         yes         yes         yes         jes         1         Bus-RS485         digital         2 - 500         0/4 - 20         ± 2         ≥ 99
UVC lamp power (Watt UVC after 8.760 r UVC lamp power @ 253,7 nm UVC lamp wavelength @ ≤ 240 nm Power consumption per UVC lamp (includ UVC lamp currentconsumption per UVC la UVC lamp connection Lamp service life ** <b>UVC SENSORSYSTEM</b> Type Numbers of UVC sensors Design according ÖNORM M5873-1D Type tested according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration according ÖNORM M5873-1E Recalibration time period System design UVC sensor Control mode UV measurement range Output signal (switchable)	unning hours per la W (UVC) % ding EVG) W amp (normal opera A special hours pc pc D 1D D 1D D year year W/m² mA	130,7         91,5         ≥ 85         filtrated         395         3,4         4-pin         12.000         B AF400 T         DigiNorm         1         yes         yes         yes         yes         jes         1         Bus-RS485         digital         2 - 500         0/4 - 20         ± 2

\* 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