

#### TECHNICAL DATA SHEET page 1/2

#### UVC multiple-lamp systems 300 W - COMPACT T

| SYSTEM TYPE                                              |              |                   | 2 AF300 T                                  |
|----------------------------------------------------------|--------------|-------------------|--------------------------------------------|
| Product                                                  |              |                   | AQUAFIDES                                  |
| Manufacturer                                             |              |                   | AQUAFIDES                                  |
| DVGW type approval registry number - W294-2 (01.06.2006) |              |                   | DW-9181BU0072                              |
| OPERATING RANGE                                          |              |                   | 2 AF300 T                                  |
| Flow rate certified (DVGW W294-2)                        | from - up to | m <sup>3</sup> /h | 14,0 - 50,0                                |
| Interpolation between the test points allowed            |              |                   | yes                                        |
| Head loss flow-max certified (without geodetical height) |              | bar               | 0,084                                      |
| Fluenz - biososimetric (W294-2)                          |              | J/m <sup>2</sup>  | 400                                        |
| Type approval according DVGW W294-2 (01.06.2006)         |              |                   | yes                                        |
| Tr100 @ 254nm                                            | from - up to | %                 | 8 - 100                                    |
| Tr50 @ 254nm                                             | from - up to | %                 | 28,3 - 100                                 |
| Tr10 @ 254nm                                             | from - up to | %                 | 77,7 - 100                                 |
| SSK @ 254nm                                              | from - up to | m-1               | 10,97 - 0                                  |
| Temperature of process water*                            | from - up to | °C                | 0 - 65                                     |
| CONTROL - CABINET                                        |              |                   | 2 AF300 T                                  |
| Type                                                     |              |                   | DigiSys<br>with Slave Card<br>2 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<br>coated                      |
| Colour (control-cabinet)                                 | grey         | RAL               | 7035                                       |
| Dimensions                                               | width        | mm                | 760                                        |
|                                                          | height       | mm                | 760                                        |
|                                                          | depth        | mm                | 300                                        |
| Weight                                                   |              |                   | kg                                         |
| Operating voltage (nominal voltage)                      |              |                   | V / Hz                                     |
| Operating connection                                     |              |                   | 230 / 50                                   |
| 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                                         |
| 5 - 35                                                   |              |                   |                                            |
| EVG ELECTRONIC BALLAST                                   |              |                   | 2 AF300 T                                  |
| Type                                                     |              |                   | EVG 300 - 400<br>3,4 Ampere PH             |
| Design                                                   |              | EVG               | housing                                    |
| Number of EVG's                                          |              | pc                | 2                                          |
| UVC lamps per EVG                                        |              | pc                | 1                                          |
| System design                                            |              |                   | Bus-RS485                                  |
| Control mode                                             |              |                   | digital                                    |
| UVC power line regulation                                |              |                   | %                                          |
| Overall efficiency (normal operation EVG and UVC lamp)   |              |                   | %                                          |
|                                                          |              |                   | ≥ 90                                       |

#### TECHNICAL DATA SHEET page 2/2

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| IRRADIATION CHAMBER                                          |                 |                  | 2 AF300 T       |
|--------------------------------------------------------------|-----------------|------------------|-----------------|
| Irradiation chamber connection                               |                 | mm               | DN 80           |
| Connecting dim. 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 (lamp)  |                  | yes             |
| Material water-swept parts                                   |                 |                  | stainless steel |
| Material number                                              |                 |                  | 1.4404          |
| Material water-swept seals                                   |                 | O-rings          | EPDM            |
| Dimensions                                                   | width           | mm               | 306             |
|                                                              | height (length) | mm               | 1.134           |
|                                                              | depth           | mm               | 206             |
|                                                              | ED Ø            | mm               | 206             |
| Height IC including disassembling of the quartz tube         |                 | mm               | 2.356           |
| Quartz tubes flanged with adapter                            | ED Ø            | mm               | 38              |
|                                                              | length          | mm               | 1.157           |
| Number of quartz tubes                                       |                 | pc               | 2               |
| Weight without medium                                        |                 | approx. kg       | 35              |
| Weight with medium                                           |                 | approx. kg       | 67              |
| Irradiation chamber volume                                   |                 | approx. l        | 32              |
| Drain / vent                                                 |                 |                  | 1/2"            |
| Irradiation chamber protection class                         |                 | IP               | 65              |
| Operating pressure (maximal)                                 |                 | bar              | 10              |
| UVC LAMP                                                     |                 |                  | 2 AF300 T       |
| Type                                                         |                 |                  | AF300A          |
| Product / Manufacturer                                       |                 |                  | AQUAFIDES       |
| Number of UVC lamps                                          |                 | pc               | 2               |
| UVC lamp kind                                                |                 |                  | amalgam         |
| UVC lamp power (Watt UVC per lamp - new lamp)                |                 | W (UVC)          | 78,6            |
| UVC lamp power (Watt UVC after 8.760 running hours per lamp) |                 | W (UVC)          | 55              |
| UVC lamp power @ 253,7 nm                                    |                 | %                | ≥ 85            |
| UVC lamp wavelength @ ≤ 240 nm                               |                 |                  | filtered        |
| Power consumption per UVC lamp (including EVG)               |                 | W                | 270             |
| UVC lamp currentconsumption per UVC lamp (normal operation)  |                 | A                | 3,4             |
| UVC lamp connection                                          |                 | special          | 4-pin           |
| Lamp service life **                                         |                 | h                | 12.000          |
| UVC SENSORSYSTEM                                             |                 |                  | 2 AF300 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