# Datasheet
# AS Series

## Description

UV water disinfection system. For the disinfection of clean water to meet relevant water standards. Systems are PLC based with multifunction text display controller systems.

## Main Application

- Medium to large scale drinking water supplies
- Process water
- Water cooling supplies
- Medium to large-scale industrial systems
- Water recycling

## Temperatures

- Recommended water temperature 5-45°C
- Possible temperature range 0-60°C
- Maximum WRAS approved temperature 23°C

## Standards

Water regulatory advisory service (WRAS) approved (2304333)

## Technical Description

Concentrically arranged low-pressure lamp UV System
Removable endplate design for ease of maintenance

## Flow Rates (m³/hr)

| | AS1M | AS2M | AS4M |
|---|---|---|---|
| 30 mJ/cm$^2$@ 98% UVT | 33 | 54 | 109 |
| 40 mJ/cm$^2$@ 98% UVT | 21 | 35 | 80 |
| 30 mJ/cm$^2$@ 95% UVT | 25 | 38 | 95 |
| 40 mJ/cm$^2$@ 95% UVT | 16 | 25 | 66 |

All flows are calculated at end of lamp life time
Please contact us for further information regarding flow rates

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# Technical Datasheet

| Model | AS1M | AS2M | AS4M |
|---|---|---|---|
| Certification: WRAS-approved | ✓ | ✓ | ✓ |
| **UV Reactor Chamber** | | | |
| Material construction - 316 stainless steel | ✓ | ✓ | ✓ |
| Internal/external finish - cleaned/ polished | ✓ | ✓ | ✓ |
| Lamp access - single ended | ✓ | ✓ | ✓ |
| Thermal drain | ✓ | ✓ | ✓ |
| UV Intensity Monitor | ✓ | ✓ | ✓ |
| Quartz sleeve type - high purity silica quartz | ✓ | ✓ | ✓ |
| Connection size - DN100 PN16 | ✓ | ✓ | ✓ |
| Connection type - flanged | ✓ | ✓ | ✓ |
| Dimensions | Refer to general arrangement drawing | | |
| Volume approx - litres | 34 | 34 | 34 |
| Total weight (dry) approx | 18 | 18 | 18 |
| Operating pressure (max) - 16 bar | ✓ | ✓ | ✓ |
| Protection class - IP56 | ✓ | ✓ | ✓ |
| Installation - horizontal/vertical | ✓ | ✓ | ✓ |
| **UV Lamp** | | | |
| Type - GERAMA150 | ✓ | ✓ | ✓ |
| Lamp design - Single ended 4 pin low pressure amalgam | ✓ | ✓ | ✓ |
| Lamp power - 135 watts | ✓ | ✓ | ✓ |
| UVc output @ 254nm - 43 watts | ✓ | ✓ | ✓ |
| Quantity | 1 | 2 | 4 |
| Lamp life - 12,000 hours | ✓ | ✓ | ✓ |
| **Control Panel** | | | |
| Material - powder coated mild steel | ✓ | ✓ | ✓ |
| Dimensions (W x H x L) - millimetres | 500 X 400 X 200 | 500 X 400 X 200 | 600 X 400 X 200 |
| Weight approx - kilograms | 15 | 15 | 22 |
| Mains power - 220-240 / 1 / 50-60 (VAC / PH / Hz) | ✓ | ✓ | ✓ |
| Power consumption - watts | 200 | 350 | 700 |
| Protection - Type C MBC | ✓ | ✓ | ✓ |
| Protection class - IP54 | ✓ | ✓ | ✓ |
| Mains connection - DIN terminal | ✓ | ✓ | ✓ |
| Lamp power supply - electronic ballast | ✓ | ✓ | ✓ |
| Control type - programmable logic controller | ✓ | ✓ | ✓ |
| Interface - text button display | ✓ | ✓ | ✓ |
| Communication - Modbus TCP/IP, PROFINET, SIMATIC S7 | ✓ | ✓ | ✓ |

**Options**

| | | | |
|---|---|---|---|
| Remote start/stop | System healthy | GSM text message system | LAN connection |
| Bespoke branded interface | Stop flow fault condition | Remote screen | Inlet/outlet configuration or size |
| | Remote UV level | | |