

# Datasheet AL Series

## Description

WRAS-approved UV water disinfection system. For the disinfection of clean water to meet relevant water standards. Systems are programmable logic controller (PLC) based with multifunction text display controller systems.

## Main Applications

- 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 (m<sup>3</sup>/hr)

	AL1M	AL2M	AL4M
30 mJ/cm <sup>2</sup> @ 98% UVT	78	130	260
40 mJ/cm <sup>2</sup> @ 98% UVT	51	93	195
30 mJ/cm <sup>2</sup> @ 95% UVT	60	90	231
40 mJ/cm <sup>2</sup> @ 95% UVT	32	59	160

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



# Technical Datasheet

Model	AL1M	AL2M	AL4M
Certification: WRAS-approved	✓	✓	✓
<b>UV Reactor Chamber</b>			
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	60	60	60
Total weight (dry) approx	32	32	32
Operating pressure (max) - 16 bar	✓	✓	✓
Protection class - IP56	✓	✓	✓
Installation - horizontal/vertical	✓	✓	✓
<b>UV Lamp</b>			
Type - GERAMA300	✓	✓	✓
Lamp design - Single ended 4 pin low pressure amalgam	✓	✓	✓
Lamp power - 325 watts	✓	✓	✓
UVc output @ 254nm - 116 watts	✓	✓	✓
Quantity	1	2	4
Lamp life - 12,000 hours	✓	✓	✓
<b>Control Panel</b>			
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	18	22
Mains power - 220-240 / 1 / 50-60 (VAC / PH / Hz)	✓	✓	✓
Power consumption - watts	350	650	1300
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	✓	✓	✓
<b>Options</b>			
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		